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ANALYTICAL REPORT

Tronox LLC, Henderson

SDG: 8304622

Lots #: D9H040187, D9H040190, D9H050230 and D9H050234

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TestAmerica Laboratories, Inc.



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Project Manager

August 20, 2009

Case Narrative

SDG 8304622

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 2.5°C on August 4, 2009, and were logged under lot D9H040187. One sample was received under chain of custody at a temperature of 2.5°C on August 4, 2009, and was logged under lot D9H040190. The chain-of-custody indicated that the lab should have received two samples (M-50B and M-50BDISS); however, no sample volume was received for M-50BDISS. The client was notified on August 5, 2009 and the lab was advised to cancel sample M-50BDISS and that the field crew would re-sample. One sample was received under chain of custody at a temperature of 0.5°C on August 5, 2009, and was logged under lot D9H050230. One sample was received under chain of custody at a temperature of 0.5°C on August 5, 2009, and was logged under lot D9H050234. These lots are reported here under SDG 8304622.

GC Semivolatiles / Organophosphorus Pesticides – SW846 Method 8141A

The method required MS/MSD could not be performed for QC batch 9217511 due to insufficient sample volume; however, method precision and accuracy were demonstrated with acceptable LCS/LCSD data.

The Continuing Calibration Verification (CCV) standard(s) associated with the samples in QC batch 9217511 exhibited %Difference values out of range for several compounds. The overall mean %Differences were within control limits; therefore, method criteria were met and corrective action was deemed unnecessary. In addition, none of these 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. Samples D9H040187-001 (M-31AB), D9H040187-002 (M-31ABDISS), and D9H040190-001 (M-50B) were analyzed for Arsenic and Selenium at dilutions of 10X or 20X 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 9217132 using sample D9H040187-001 (M-31AB), and all results were in control.

The method required MS/MSD was performed for Total Metals QC batch 9218437 using sample D9H050230-001 (M-21B), and all results were in control.

The method required MS/MSD was performed for Dissolved Metals QC batch 9217128 using sample D9H040187-002 (M-31ABDISS), and all results were in control.

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, i.e., 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

8304622 : D9H040187

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
M-31AB 08/03/09 09:15 001				
Arsenic	100	50	ug/L	SW846 6020
Selenium	9.6 B	50	ug/L	SW846 6020
M-31ABDISS 08/03/09 09:15 002				
Arsenic - DISSOLVED	110	50	ug/L	SW846 6020
Selenium - DISSOLVED	16 B	50	ug/L	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

8304622 : D9H040190

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
M-50B 08/03/09 12:05 001				
Arsenic	81 B	100	ug/L	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

8304622 : D9H050230

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
M-21B 08/04/09 09:30 001				
Arsenic	93	5.0	ug/L	SW846 6020
Selenium	5.6	5.0	ug/L	SW846 6020

EXECUTIVE SUMMARY - Detection Highlights

D9H050234

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
NO DETECTABLE PARAMETERS				

METHODS SUMMARY

8304622

<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

8304622

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
SW846 6020	Thomas Lill	006929
SW846 6020	Thomas Lill	6929
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

8304622 : D9H040187

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LHG1P	001	M-31AB	08/03/09	09:15
LHG1R	002	M-31ABDISS	08/03/09	09:15

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.

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SAMPLE SUMMARY

8304622 : D9H040190

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT</u>	<u>SAMPLE ID</u>	<u>SAMPLED</u>	<u>SAMP</u>
				<u>DATE</u>	<u>TIME</u>
LHG21	001	M-50B		08/03/09	12:05

NOTE (S) :

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SAMPLE SUMMARY

8304622 : D9H050230

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT</u>	<u>SAMPLE ID</u>	<u>SAMPLED</u>	<u>SAMP</u>
				<u>DATE</u>	<u>TIME</u>
LHJ5J	001	M-21B		08/04/09	09:30

NOTE (S) :

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- 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

8304622 : D9H050234

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LHJ51	001	FB080409-GW	08/04/09	11:00

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

D9H040187

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		9217132	9217084
002	WATER	SW846 6020		9217128	9217081

QC DATA ASSOCIATION SUMMARY

D9H040190

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		9217132	9217084

QC DATA ASSOCIATION SUMMARY

D9H050230

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		9218437	9218274

QC DATA ASSOCIATION SUMMARY

D9H050234

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		9218437	9218274
	WATER	SW846 8141A		9217511	

TestAmerica
Semivolatile GC
CLP-Like Forms

Lot ID: D9H050234

Client: Northgate/Tronox

Method: SW846 8141A

Associated Samples: 001

Batch: 9217511

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: 8304622
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9217511
Sample Aliquot: 1056 mL
Dilution Factor: 1

Client Sample ID: FB080409-GW
Lab Sample ID: D9H050234-001
Lab WorkOrder: LHJ511AA
Date/Time Collected: 08/04/09 11:00
Date/Time Received: 08/05/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 22:00
Date/Time Analyzed: 08/09/09 19:24
Instrument ID: D

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

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: 8304622
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9217511
Sample Aliquot: 1056 mL
Dilution Factor: 1

Client Sample ID: FB080409-GW
Lab Sample ID: D9H050234-001
Lab WorkOrder: LHJ511AA
Date/Time Collected: 08/04/09 11:00
Date/Time Received: 08/05/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 22:00
Date/Time Analyzed: 08/09/09 19:24
Instrument ID: D

CAS No.	Analyte	Conc.	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	81	60	154	
24934-91-6	Chlormefos	60	49	171	

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: 8304622
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9217511
Sample Aliquot: 1000 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-511B
Lab WorkOrder: LHK3A1AA
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 22:00
Date/Time Analyzed: 08/09/09 16:58
Instrument ID: D

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
Lot/SDG Number: 8304622
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9217511
Sample Aliquot: 1000 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-511B
Lab WorkOrder: LHK3A1AA
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 22:00
Date/Time Analyzed: 08/09/09 16:58
Instrument ID: D

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	79	60	154	
24934-91-6	Chlormefos	69	49	171	

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER

Extraction I09P29H

Lot/SDG Number: 8304622

QC Batch ID: 9217511

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
FB080409-GW	LHJ511AA	60	81							0
INTRA-LAB BLANK	LHK3A1AA	69	79							0
CHECK SAMPLE	LHK3A1AC	79	87							0
DUPLICATE CHECK	LHK3A1AD	74	83							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: 8304622
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9217511
Sample Aliquot: 1000 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-511C
Lab WorkOrder: LHK3A1AC
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 22:00
Date/Time Analyzed: 08/09/09 17:35
Instrument ID: D

Analyte	True	Found	%Rec	Q	Limits
Dichlorvos	4.00	4.16	104		40 - 193
Thionazin	4.00	3.43	86		39 - 180
Dimethoate	4.00	3.17	79		33 - 139
Disulfoton	4.00	3.28	82		44 - 139
EPN	4.00	3.20	80		50 - 150
Ethoprop	4.00	3.41	85		43 - 165
Famphur	8.00	6.78	85		51 - 131
Fensulfothion	4.00	3.50	87		46 - 115
Fenthion	4.00	3.36	84		63 - 128
Malathion	4.00	2.97	74		53 - 137
Merphos	4.00	3.14	78		50 - 150
Methyl parathion	4.00	3.56	89		55 - 131
Azinphos-methyl	4.00	3.24	81		42 - 125
Mevinphos	4.00	3.23	81		39 - 175
Ethyl parathion	4.00	3.24	81		47 - 142
Phorate	4.00	2.52	63		46 - 142
Ronnel	4.00	3.46	86		43 - 115
Sulfotepp	4.00	2.81	70		29 - 166
Trichloronate	4.00	3.02	75		60 - 115
Chlorpyrifos	4.00	3.46	86		60 - 120
Coumaphos	4.00	3.15	79		61 - 115
Diazinon	4.00	3.57	89		47 - 149

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	87	60	154	
24934-91-6	Chlormefos	79	49	171	

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: 8304622
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9217511
Sample Aliquot: 1000 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-511L
Lab WorkOrder: LHK3A1AD
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 22:00
Date/Time Analyzed: 08/09/09 18:11
Instrument ID: D

Analyte	True	Found	C	% Rec	Q	RPD	Q	QC Limits	
								% Rec	RPD
Dichlorvos	4.00	3.99		100		4.1		40 - 193	49
Thionazin	4.00	3.26		81		5.0		39 - 180	40
Dimethoate	4.00	3.11		78		1.9		33 - 139	50
Disulfoton	4.00	3.06		76		6.8		44 - 139	40
EPN	4.00	3.14		79		2.0		50 - 150	50
Ethoprop	4.00	3.25		81		4.8		43 - 165	36
Famphur	8.00	6.62		83		2.4		51 - 131	88
Fensulfothion	4.00	3.68		92		5.0		46 - 115	62
Fenthion	4.00	3.22		81		4.1		63 - 128	41
Malathion	4.00	2.89		72		2.7		53 - 137	28
Merphos	4.00	3.08		77		1.9		50 - 150	50
Methyl parathion	4.00	3.44		86		3.5		55 - 131	30
Azinphos-methyl	4.00	3.11		78		3.8		42 - 125	36
Mevinphos	4.00	3.09		77		4.4		39 - 175	40
Ethyl parathion	4.00	3.06		76		5.6		47 - 142	40
Phorate	4.00	2.33		58		7.8		46 - 142	40
Ronnel	4.00	3.28		82		5.4		43 - 115	39
Sulfotepp	4.00	2.63		66		6.7		29 - 166	40
Trichloronate	4.00	2.85		71		5.6		60 - 115	38
Chlorpyrifos	4.00	3.42		86		1.0		60 - 120	34
Coumaphos	4.00	3.08		77		2.3		61 - 115	43
Diazinon	4.00	3.46		87		3.0		47 - 149	40

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	83	60	154	
24934-91-6	Chlormefos	74	49	171	

Northgate Environmental Management, Inc.

Method Blank Summary

Lab Name:	<u>TESTAMERICA DENVER</u>	Lab File ID:	<u>047F4701.</u>
Lot/SDG Number:	<u>8304622</u>	Lab Sample ID:	<u>D9H050000-511B</u>
Matrix:	<u>WATER</u>	Lab Work Order:	<u>LHK3A1AA</u>
Analysis Method:	<u>8141A</u>	Date/Time Extracted:	<u>08/05/09 22:00</u>
Extraction Method:	<u>I09P29H</u>	Date/Time Analyzed:	<u>08/09/09 16:58</u>
QC Batch ID:	<u>9217511</u>	Instrument ID:	<u>D</u>

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
FB080409-GW	LHJ511AA	047F4701.	08/09/09	19:24
CHECK SAMPLE	LHK3A1AC C	044F4401.	08/09/09	17:35
DUPLICATE CHECK	LHK3A1AD L	045F4501.	08/09/09	18:11

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : FALCON
 Method file : \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

Calibration File Names:
 Level 1: \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\009F0901.D
 Level 2: \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\008F0801.D
 Level 3: \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\007F0701.D
 Level 4: \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\006F0601.D
 Level 5: \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\005F0501.D
 Level 6: \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\004F0401.D
 Level 7: \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\003F0301.D

SEE CALIBRATION HISTORY

Compound	Coefficients							Curve	b	ml	m2	%RSD or R ²
	0.2000000	0.5000000	1.0000	2.0000	3.0000	4.0000						
1 O,O'-TEPT	182432	420455	908197	1806303	2678940	3532965	QUAD	-0.00185	0.46722	0.02869	0.99856	
2 Dichlorvos	4488963											
	0.88775	0.82394	0.83968	0.86756	0.82268	0.85000	AVRG		0.84168		3.52069	
3 Mevinphos	+++++	31592	111446	356823	596188	830977	LINE	0.20087	0.46926		0.99901	
	1152906											
5 Thionazin	61338	194202	544011	1140983	1778412	2252008	WLINR	0.03379	1.18951		0.99527	
	2920220											

*All weighted linear curve 1/x²

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvtr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

Compound	Level							Curve	b	Coefficients		RSD or R ²
	1	2	3	4	5	6	m1			m2		
6 Demeton-O	30299 761277	63511	157798	301922	460549	581572	WLINR	-0.00975	0.92539		0.99395	
7 Echoprop	42588 2505899	199533	491981	1004283	1510941	1955169	WLINR	0.04409	1.07839		0.99207	
8 Naled	9478 1127359	41661	162318	361004	602529	777472	QUAD	0.08662	2.45165	-0.13780	0.99888	
10 Sulfocepp	1.56280 1.47299	1.44519	1.65714	1.68788	1.57081	1.56396	AVRG		1.56582		5.61879	
11 Phorate	1.13644 0.92922	0.95432	1.14044	1.07117	0.99690	0.98879	AVRG		1.03104		8.29536	
12 Dimethoate	++++ 2590760	59892	356039	877602	1446366	1934346	WLINR	0.17667	1.10316		0.99682	
13 Demeton-S	421 1490677	101878	285098	598857	888508	1152288	LINR	0.00806	0.86060		0.99287	

TestAmerica

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
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 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

Compound	Level							Curve	b	Coefficients			%RSD or R ²
	1	2	3	4	5	6	m1			m2			
14 Simazine	0.2000000 Level 1 5.0000 Level 7	0.5000000	1.0000	2.0000	3.0000	4.0000							
	++++ 804726	48256	174622	313833	493520	631700	QUAD	0.10651	2.04581	1.46981			0.99811
15 Atrazine	++++ 1175975	56963	206785	417568	667495	887166		0.09612	0.48853				0.99171
16 propazine	++++ 0.44356	0.35592	0.47135	0.45861	0.45434	0.46102	AVRG		0.44080				9.65392
17 Disulfocan	48155 2454335	167271	445811	956556	1440699	1882342	WLNLR	0.04123	1.45920				0.99632
18 Diazinon	122906 2542893	248611	519628	1016692	1526415	1969776	WLNLR	-0.05341	1.44136				0.99767
19 Methyl Parathion	40155 1968772	137375	334656	727074	1132305	1471875	WLNLR	0.03631	1.12970				0.99901
20 Ronnel	1.03546 1.20553	1.01940	1.14102	1.20523	1.19683	1.22965	AVRG		1.14759				7.53685

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvyr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

Compound	Coefficients							or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	
21 Malathion	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	AVRG	1.00124 8.61800
22 Fenthion	49230 2105793	134570	363139	790291	1222175	1589817	WLINR	0.02987 1.20261 0.99507
23 Parathion	++++ 2156342	117278	333400	780379	1232087	1621434	WLINR	0.09066 1.27814 0.99835
24 Chlorpyrifos	++++ 2373426	265889	506108	926482	1387727	1798423	WLINR	-0.10926 1.27881 0.99829
25 Trichloronate	1.46832 1.43014	1.29281	1.40677	1.46387	1.44859	1.47665	AVRG	1.42673 4.47196
26 Anilazine	413 224347	937	23197	62364	109906	153137	LINR	0.20138 0.12922 0.99583
27 Merphos-A (Merphos)	27686 1714293	102703	274971	619861	975630	1320113	WLINR	0.05196 0.98235 0.99735

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densv03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

Compound	0.2000000	0.5000000	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
28 Tetrachlorvinphos (Stirophos)	27000	86949	229899	510754	821547	1111793	WLINR	0.04531	0.82719		0.99642
	1539127										
29 Tokuthion	1.37786	1.22539	1.38006	1.40966	1.37398	1.39384	AVRG		1.35696		4.56962
	1.33792										
30 Merphos-B (Merphos Oxone)	49732	78157	159629	271041	371990	422425	QDAD	0.06346	0.59850	3.86180	0.99854
	528766										
31 Carbophenothion-methyl	29119	99151	280480	618555	972242	1285762	WLINR	0.04987	0.97720		0.99632
	1741313										
32 Fensulfothion	+++++	53776	214899	563535	876396	1172734	WLINR	0.15154	0.96497		0.99770
	1592051										
33 Bolstar / Fampur	97513	282731	741469	1568236	2416510	3128382	WLINR	0.05716	1.19757		0.99670
	4156553										
34 Carbophenothion	1.08187	1.03600	1.15360	1.13412	1.10854	1.10645	AVRG		1.09793		3.67689
	1.06490										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvyr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.i

Compound	0.2000000	0.5000000	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
36 Phosmet	25548	91979	268843	595984	916951	1218253	MLINR	0.05412	0.93334		0.99580
	1647305										
37 EPN	1.04741	1.13202	1.22186	1.20575	1.11750	1.12936	AVRG		1.12952		5.95345
	1.05270										
38 Azinphos-methyl	25233	73949	233826	545683	862799	1158610	MLINR	0.07569	0.89630		0.99930
	1592084										
40 Azinphos-ethyl	1.20072	0.93049	1.06940	1.04526	1.02814	1.02319	AVRG		1.03935		8.14067
	0.97822										
41 Coumaphos	33445	95853	261325	569489	895805	1188819	MLINR	0.03646	0.89074		0.99560
	1602651										
M 42 Total Demeton	30720	165389	442896	900779	1349057	1733860	MLINR	0.05788	1.41556		0.99198
	2251954										
M 43 Merphos	1.39750	1.23094	1.38907	1.38298	1.31717	1.31436	AVRG		1.32102		5.67433
	1.21510										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : FALCON
 Method file : \\Densvrr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

Compound	Concentration Levels							Curve	b	Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	m1			m2		
\$ 4 Chloromefos	1.70854	1.55109	1.63649	1.61328	1.45247	1.46197	AVRG		1.54167		7.79134	
\$ 35 Triphenyl phosphate	0.74982	0.81969	0.94206	0.95098	0.90064	0.90309	AVRG		0.87281		8.28995	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : FALCON
 Method file : \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

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

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Start Cal Date: 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Last Cal Level: 1
 Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
06-AUG-2009 18:34	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
06-AUG-2009 17:58	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
06-AUG-2009 17:21	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
06-AUG-2009 16:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
06-AUG-2009 16:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
06-AUG-2009 15:32	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
06-AUG-2009 14:56	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

06-AUG-2009 19:10	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\010F1001.D
07-AUG-2009 06:42	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\029F2901.D
06-AUG-2009 16:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.i

Calibration File Names:

Level 1: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\009F0901.D
 Level 2: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\008F0801.D
 Level 3: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\007F0701.D
 Level 4: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\006F0601.D
 Level 5: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\005F0501.D
 Level 6: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\004F0401.D
 Level 7: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\003F0301.D

SEE CALIBRATION HISTORY

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	b	Coefficients		%RSD or R ²
									m1	m2	
1 o,o'-TEPT	2.29043 1.59199	1.90123	1.95130	1.88382	1.73356	1.73918	AVRG		1.87022		11.90741
2 Dichlorvos	0.89869 0.78454	0.78758	0.82805	0.86014	0.82558	0.85108	AVRG		0.83367		4.86412
4 Mevinphos	26181 1418878	90159	249277	555210	847872	1096662	LNRR	0.02241	0.52291		0.99690
5 Demeton-O	0.74959 0.74831	0.68467	0.79510	0.82182	0.78659	0.77064	AVRG		0.76525		5.74609

* All weighted linear are 1/x²

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densv03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.i

Compound	Level							Curve	b	Coefficients		%RSD or R ²
	1	2	3	4	5	6	m1			m2		
	0.2000000	0.5000000	1.0000	2.0000	3.0000	4.0000						
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	5.0000											
	Level 7											
6 Thiomazin	1.14565	1.08329	1.20126	1.20198	1.13145	1.12656						
	1.04660						AVRG			1.13382		5.03485
8 Ethoprop	150814	267910	555560	1095403	1622717	2051405						
	2583304						WLINR	-0.08621		0.93634		0.99376
9 Naled	12427	47634	159760	373106	617906	787967						
	1131291						QOBD	0.08493		2.59831	-0.16856	0.99915
10 Sulfolepp	1.76900	1.56005	1.81850	1.75939	1.64614	1.63203						
	1.51002						AVRG			1.67073		6.89125
11 Phorate	1.08434	0.83104	0.84616	0.84084	0.79408	0.78203						
	0.73702						AVRG			0.84507		13.29300
12 Demeton-S	0.62408	0.72296	0.82414	0.81846	0.80405	0.81520						
	0.76672						AVRG			0.76794		9.50535
13 Simazine	6499	15934	82213	217050	364617	492868						
	674577						LINR	0.14352		0.25284		0.99829

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcom
 Method file : \\Densvyr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	b	Coefficients ml	m2	%RSD or R ²
14 Atrazine / Propazine	0.45307 0.46112	0.43687	0.46450	0.46986	0.45749	0.47026	AVRG		0.45903		2.52599
15 Dimethoate	62417 2698083	178809	484895	1037511	1616390	2052825	WLINR	0.03026	1.00403		0.99496
16 Diazinon	1.12790 0.87260	0.98078	1.05404	1.02017	0.94993	0.93374	AVRG		0.99131		8.50540
17 Disulfoton	1.04034 0.92562	0.96498	1.05301	1.04708	0.99340	0.98440	AVRG		1.00126		4.77046
18 Methyl Parathion	40092 1936768	130034	351856	753320	1163940	1488025	WLINR	0.04327	0.99949		0.99615
19 Ronnel	1.29240 1.09180	1.09578	1.15751	1.15464	1.14108	1.15310	AVRG		1.15519		5.76214
20 Malathion	52293 1824966	150756	354820	728530	1103657	1406900	WLINR	0.01814	0.94549		0.99782

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvtr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

Compound	Level							Curve	b	Coefficients		or R ²
	1	2	3	4	5	6	m1			m2		
	0.2000000	0.5000000	1.0000	2.0000	3.0000	4.0000						
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	5.0000											
	Level 7											
36 EPN	1.02676	0.93500	1.04721	1.04625	0.99870	0.98619	AVRG					5.44915
	0.90816											
37 Phosmet	42368	114720	302493	636769	974935	1249688	WLNLR	0.02810		0.83340		0.99564
	1655568											
39 Azinphos-methyl	37094	89923	240868	524807	823806	1072140	WLNLR	0.02728		0.69625		0.99187
	1429834											
40 Azinphos-ethyl	0.69495	0.65912	0.76659	0.77776	0.74616	0.73804	AVRG			0.72547		5.96411
	0.69568											
41 Coumaphos	37102	91236	236130	504566	780746	1021332	WLNLR	0.02252		0.66605		0.99432
	1373774											
M 42 Total Demeton	56597	167552	404997	836927	1295869	1672111	WLNLR	0.02537		1.10859		0.99819
	2162260											
M 43 Merphos	81219	201591	451876	924646	1399235	1779778	WLNLR	-0.00193		1.17315		0.99761
	2275786											

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : FALCON
 Method file : \\DensVr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

Compound	Concentration Levels							Curve	b	Coefficients		%RSD or R ²
	0.200000 Level 1	0.500000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	m1			m2		
\$ 3 Chloroformos	118440 3329933	285008	643087	1328045	2008587	2624051	LINR	-0.03570	1.20195		0.99676	
\$ 35 Triphenyl phosphate	0.91508 0.77349	0.82368	0.91619	0.91274	0.86631	0.85066	AVRG		0.86545		6.27482	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

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

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Start Cal Date: 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Last Cal Level: 1
 Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
06-AUG-2009 18:34	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
06-AUG-2009 17:58	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
06-AUG-2009 17:21	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
06-AUG-2009 16:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
06-AUG-2009 16:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
06-AUG-2009 15:32	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
06-AUG-2009 14:56	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

06-AUG-2009 19:10	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\010F1001.D
06-AUG-2009 16:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\006F0601.D

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
 Lab Sample ID: 8141 SS GSV87609
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.0000	2.2402	12.0	15.0
2 Dichlorvos	2.0000	2.0361	1.8	15.0
3 Mevinphos	2.0000	1.5564	22.2	15.0
4 Chlormefos	2.0000	1.7365	13.2	15.0
5 Thionazin	2.0000	2.2350	11.8	15.0
6 Demeton-O	0.6500	2.0253	211.6	15.0
7 Ethoprop	2.0000	1.9936	0.3	15.0
8 Naled	2.0000	1.7057	14.7	15.0
9 Sulfotepp	2.0000	1.9680	1.6	15.0
10 Phorate	2.0000	1.6336	18.3	15.0
11 Dimethoate	2.0000	2.1822	9.1	15.0
12 Demeton-S	1.3600	0.2056	84.9	15.0
13 Simazine	2.0000	2.4694	23.5	15.0
14 Atrazine	2.0000	2.1611	8.1	15.0
15 propazine	2.0000	2.1931	9.7	15.0
17 Disulfoton	2.0000	1.9744	1.3	15.0
16 Diazinon	2.0000	1.8671	6.6	15.0
18 Methyl Parathion	2.0000	1.9703	1.5	15.0
19 Ronnel	2.0000	2.0637	3.2	15.0
20 Malathion	2.0000	1.9362	3.2	15.0
21 Fenthion	2.0000	1.9060	4.7	15.0
22 Parathion	2.0000	2.0598	3.0	15.0
23 Chlorpyrifos	2.0000	1.9775	1.1	15.0
24 Trichloronate	2.0000	1.8094	9.5	15.0
25 Anilazine	2.0000	1.2499	37.5	15.0
148 Merphos-A (Merphos)	2.0000	0.2980	85.1	999.0
26 Tetrachlorvinphos (Stirophos)	2.0000	1.8887	5.6	15.0
28 Tokuthion	2.0000	1.9432	2.8	15.0
149 Merphos-B (Merphos Oxone)	2.0000	11.8778	493.9	999.0
29 Carbophenothion-methyl	2.0000	1.3305	33.5	15.0
29 Fensulfothion	2.0000	1.9661	1.7	15.0
30 Bolstar / Famphur	4.0000	4.2423	6.1	15.0
32 Carbophenothion	2.0000	2.1165	5.8	15.0
31 Triphenyl phosphate	2.0000	1.8485	7.6	15.0
34 Phosmet	2.0000	2.2723	13.6	15.0
32 EPN	2.0000	2.2096	10.5	15.0
33 Azinphos-methyl	2.0000	1.8506	7.5	15.0
38 Azinphos-ethyl	2.0000	2.0552	2.8	15.0
36 Coumaphos	2.0000	1.9367	3.2	15.0

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ok, see total demeton

ok, see total demeton

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\010F1001.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
Lab Sample ID: 8141 SS GSV87609
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.2310	11.5	15.0
27 Merphos	2.0000	1.8981	5.1	15.0

Average %D = 29.5

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
 Lab Sample ID: 8141 SS GSV87609
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.0000	2.1425	7.1	15.0
2 Dichlorvos	2.0000	1.9878	0.6	15.0
3 Chlormefos	2.0000	1.6927	15.4	15.0
4 Mevinphos	2.0000	1.5781	21.1	15.0
5 Demeton-O	0.6500	2.0683	218.2	15.0
6 Thionazin	2.0000	2.2135	10.7	15.0
7 Ethoprop	2.0000	1.9677	1.6	15.0
10 Naled	2.0000	1.6813	15.9	15.0
145 Sulfotepp	2.0000	1.8424	7.9	15.0
8 Phorate	2.0000	1.6013	19.9	15.0
15 Demeton-S	1.3600	0.0935	93.1	15.0
10 Simazine	2.0000	2.7702	38.5	15.0
13 Atrazine / Propazine	4.0000	4.2316	5.8	15.0
16 Dimethoate	2.0000	2.1608	8.0	15.0
11 Diazinon	2.0000	1.8234	8.8	15.0
14 Disulfoton	2.0000	1.9546	2.3	15.0
23 Methyl Parathion	2.0000	1.9650	1.7	15.0
17 Ronnel	2.0000	1.9361	3.2	15.0
24 Malathion	2.0000	1.8572	7.1	15.0
18 Chlorpyrifos	2.0000	1.9742	1.3	15.0
20 Trichloronate	2.0000	1.7303	13.5	15.0
26 Parathion	2.0000	2.0441	2.2	15.0
19 Fenthion	2.0000	1.9107	4.5	15.0
151 Merphos-A (Merphos)	2.0000	0.2815	85.9	999.0
21 Anilazine	2.0000	0.8232	58.8	15.0
27 Tetrachlorvinphos (stirophos)	2.0000	1.8642	6.8	15.0
25 Tokuthion	2.0000	1.9613	1.9	15.0
148 Merphos-B (Merphos oxone)	2.0000	11.9171	495.9	999.0
28 Carbophenothion methyl	2.0000	1.3477	32.6	15.0
30 Fensulfothion	2.0000	1.9468	2.7	15.0
28 Bolstar	2.0000	1.9885	0.6	15.0
30 Carbophenothion	2.0000	2.1111	5.6	15.0
33 Famphur	2.0000	2.2821	14.1	15.0
29 Triphenyl phosphate	2.0000	1.7892	10.5	15.0
32 EPN	2.0000	2.1924	9.6	15.0
34 Phosmet	2.0000	2.2747	13.7	15.0
34 Azinphos-methyl	2.0000	1.8178	9.1	15.0
35 Azinphos-ethyl	2.0000	2.1653	8.3	15.0
36 Coumaphos	2.0000	1.8960	5.2	15.0

OK
OK, see total demeton
OK, see total demeton

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\010F1001.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
Lab Sample ID: 8141 SS GSV87609
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1617	8.1	15.0
22 Merphos	2.0000	1.9093	4.5	15.0

Average %D = 31.3

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC D.i
 Lab File ID: 031F3101.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.2258	11.0	15.0
2 Dichlorvos	2.5000	2.7870	11.5	15.0
3 Mevinphos	2.5000	2.7443	9.8	15.0
4 Chlormefos	2.5000	2.0479	18.1	15.0 <-
5 Thionazin	2.5000	2.3435	6.3	15.0
6 Demeton-O	0.8125	0.7897	2.8	15.0
7 Ethoprop	2.5000	2.3220	7.1	15.0
8 Naled	2.5000	1.9523	21.9	15.0 <-
9 Sulfotepp	2.5000	2.2640	9.4	15.0
10 Phorate	2.5000	2.2807	8.8	15.0
11 Dimethoate	2.5000	2.4396	2.4	15.0
12 Demeton-S	1.7000	1.6288	4.2	15.0
13 Simazine	2.5000	2.3033	7.9	15.0
14 Atrazine	2.5000	2.2355	10.6	15.0
15 propazine	2.5000	2.3108	7.6	15.0
17 Disulfoton	2.5000	2.2697	9.2	15.0
16 Diazinon	2.5000	2.4458	2.2	15.0
18 Methyl Parathion	2.5000	2.3951	4.2	15.0
19 Ronnel	2.5000	2.3906	4.4	15.0
20 Malathion	2.5000	2.4038	3.8	15.0
21 Fenthion	2.5000	2.3642	5.4	15.0
22 Parathion	2.5000	2.3705	5.2	15.0
23 Chlorpyrifos	2.5000	2.3100	7.6	15.0
24 Trichloronate	2.5000	2.3144	7.4	15.0
25 Anilazine	2.5000	1.5045	39.8	15.0 <-
148 Merphos-A (Merphos)	2.5000	0.6130	75.5	999.0
26 Tetrachlorvinphos (Stirophos)	2.5000	2.2778	8.9	15.0
28 Tokuthion	2.5000	2.3012	8.0	15.0
149 Merphos-B (Merphos Oxone)	2.5000	9.1868	267.5	999.0
29 Carbophenothion-methyl	2.5000	2.3650	5.4	15.0
29 Fensulfothion	2.5000	2.4549	1.8	15.0
30 Bolstar / Famphur	5.0000	4.6225	7.5	15.0
32 Carbophenothion	2.5000	2.3569	5.7	15.0
31 Triphenyl phosphate	2.5000	2.4113	3.5	15.0
34 Phosmet	2.5000	2.3251	7.0	15.0
32 EPN	2.5000	2.2961	8.2	15.0
33 Azinphos-methyl	2.5000	2.4104	3.6	15.0
38 Azinphos-ethyl	2.5000	2.3407	6.4	15.0
36 Coumaphos	2.5000	2.3321	6.7	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\031F3101.D
Report Date: 08/10/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D.i
Lab File ID: 031F3101.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4185	3.3	15.0
27 Merphos	2.5000	1.9052	23.8	15.0

Average %D = 16.4

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC D.i
 Lab File ID: 031F3101.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.1948	12.2	15.0
2 Dichlorvos	2.5000	3.0343	21.4	15.0 <-
3 Chlormefos	2.5000	2.2956	8.2	15.0
4 Mevinphos	2.5000	2.7154	8.6	15.0
5 Demeton-O	0.8125	0.7742	4.7	15.0
6 Thionazin	2.5000	2.3959	4.2	15.0
7 Ethoprop	2.5000	2.4346	2.6	15.0
10 Naled	2.5000	2.0025	19.9	15.0 <-
145 Sulfotepp	2.5000	2.2144	11.4	15.0
8 Phorate	2.5000	2.2619	9.5	15.0
15 Demeton-S	1.7000	1.6662	2.0	15.0
10 Simazine	2.5000	2.1943	12.2	15.0
13 Atrazine / Propazine	5.0000	4.5293	9.4	15.0
16 Dimethoate	2.5000	2.4449	2.2	15.0
11 Diazinon	2.5000	2.2232	11.1	15.0
14 Disulfoton	2.5000	2.2446	10.2	15.0
23 Methyl Parathion	2.5000	2.5244	1.0	15.0
17 Ronnel	2.5000	2.3201	7.2	15.0
24 Malathion	2.5000	2.2455	10.2	15.0
18 Chlorpyrifos	2.5000	2.3252	7.0	15.0
20 Trichloronate	2.5000	2.1289	14.8	15.0
26 Parathion	2.5000	2.2843	8.6	15.0
19 Fenthion	2.5000	2.4066	3.7	15.0
151 Merphos-A (Merphos)	2.5000	1.0970	56.1	999.0
21 Anilazine	2.5000	0.5874	76.5	15.0 <-
27 Tetrachlorvinphos (stirophos)	2.5000	2.2471	10.1	15.0
25 Tokuthion	2.5000	2.2469	10.1	15.0
148 Merphos-B (Merphos oxone)	2.5000	10.0626	302.5	999.0
28 Carbophenothion methyl	2.5000	2.5167	0.7	15.0
30 Fensulfothion	2.5000	2.3383	6.5	15.0
28 Bolstar	2.5000	2.2277	10.9	15.0
30 Carbophenothion	2.5000	2.3228	7.1	15.0
33 Famphur	2.5000	2.4400	2.4	15.0
29 Triphenyl phosphate	2.5000	2.3228	7.1	15.0
32 EPN	2.5000	2.3319	6.7	15.0
34 Phosmet	2.5000	2.2755	9.0	15.0
34 Azinphos-methyl	2.5000	2.4504	2.0	15.0
35 Azinphos-ethyl	2.5000	2.4370	2.5	15.0
36 Coumaphos	2.5000	2.2424	10.3	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\031F3101.D
Report Date: 08/10/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D.i
Lab File ID: 031F3101.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4404	2.4	15.0
22 Merphos	2.5000	2.3638	5.4	15.0

Average %D = 17.8

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC D.i
 Lab File ID: 048F4801.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.3366	6.5	15.0
2 Dichlorvos	2.5000	2.7926	11.7	15.0
3 Mevinphos	2.5000	2.8105	12.4	15.0
4 Chlormefos	2.5000	2.1455	14.2	15.0
5 Thionazin	2.5000	2.4577	1.7	15.0
6 Demeton-O	0.8125	0.7711	5.1	15.0
7 Ethoprop	2.5000	2.3853	4.6	15.0
8 Naled	2.5000	1.8917	24.3	15.0<-
9 Sulfotepp	2.5000	2.3936	4.3	15.0
10 Phorate	2.5000	2.3231	7.1	15.0
11 Dimethoate	2.5000	2.4617	1.5	15.0
12 Demeton-S	1.7000	1.6981	0.1	15.0
13 Simazine	2.5000	2.3610	5.6	15.0
14 Atrazine	2.5000	2.3957	4.2	15.0
15 propazine	2.5000	2.4797	0.8	15.0
17 Disulfoton	2.5000	2.3369	6.5	15.0
16 Diazinon	2.5000	2.4742	1.0	15.0
18 Methyl Parathion	2.5000	2.4393	2.4	15.0
19 Ronnel	2.5000	2.3569	5.7	15.0
20 Malathion	2.5000	2.3811	4.8	15.0
21 Fenthion	2.5000	2.3570	5.7	15.0
22 Parathion	2.5000	2.3366	6.5	15.0
23 Chlorpyrifos	2.5000	2.2921	8.3	15.0
24 Trichloronate	2.5000	2.2284	10.9	15.0
25 Anilazine	2.5000	1.3600	45.6	15.0<-
148 Merphos-A (Merphos)	2.5000	1.0816	56.7	999.0
26 Tetrachlorvinphos (Stirophos)	2.5000	2.1967	12.1	15.0
28 Tokuthion	2.5000	2.2720	9.1	15.0
149 Merphos-B (Merphos Oxone)	2.5000	10.0910	303.6	999.0
29 Carbophenothion-methyl	2.5000	2.3476	6.1	15.0
29 Fensulfothion	2.5000	2.4620	1.5	15.0
30 Bolstar / Famphur	5.0000	4.6721	6.6	15.0
32 Carbophenothion	2.5000	2.3723	5.1	15.0
31 Triphenyl phosphate	2.5000	2.4591	1.6	15.0
34 Phosmet	2.5000	2.2985	8.1	15.0
32 EPN	2.5000	2.3327	6.7	15.0
33 Azinphos-methyl	2.5000	2.3458	6.2	15.0
38 Azinphos-ethyl	2.5000	2.3038	7.8	15.0
36 Coumaphos	2.5000	2.2047	11.8	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\048F4801.D
Report Date: 08/10/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D.i
Lab File ID: 048F4801.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4692	1.2	15.0
27 Merphos	2.5000	2.3333	6.7	15.0

Average %D = 15.9

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC D.i
 Lab File ID: 048F4801.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.3083	7.7	15.0
2 Dichlorvos	2.5000	3.1206	24.8	15.0 <-
3 Chlormefos	2.5000	2.3838	4.6	15.0
4 Mevinphos	2.5000	2.8646	14.6	15.0
5 Demeton-O	0.8125	0.8017	1.3	15.0
6 Thionazin	2.5000	2.5263	1.1	15.0
7 Ethoprop	2.5000	2.5050	0.2	15.0
10 Naled	2.5000	2.1149	15.4	15.0 <-
145 Sulfotepp	2.5000	2.3218	7.1	15.0
8 Phorate	2.5000	2.3044	7.8	15.0
15 Demeton-S	1.7000	1.6959	0.2	15.0
10 Simazine	2.5000	2.2676	9.3	15.0
13 Atrazine / Propazine	5.0000	4.7470	5.1	15.0
16 Dimethoate	2.5000	2.6299	5.2	15.0
11 Diazinon	2.5000	2.3437	6.3	15.0
14 Disulfoton	2.5000	2.2859	8.6	15.0
23 Methyl Parathion	2.5000	2.6211	4.8	15.0
17 Ronnel	2.5000	2.3959	4.2	15.0
24 Malathion	2.5000	2.3378	6.5	15.0
18 Chlorpyrifos	2.5000	2.3965	4.1	15.0
20 Trichloronate	2.5000	2.1863	12.5	15.0
26 Parathion	2.5000	2.3639	5.4	15.0
19 Fenthion	2.5000	2.4501	2.0	15.0
151 Merphos-A (Merphos)	2.5000	1.0763	56.9	999.0
21 Anilazine	2.5000	0.8307	66.8	15.0 <-
27 Tetrachlorvinphos (stirophos)	2.5000	2.2724	9.1	15.0
25 Tokuthion	2.5000	2.2652	9.4	15.0
148 Merphos-B (Merphos oxone)	2.5000	11.2942	351.8	999.0
28 Carbophenothion methyl	2.5000	2.5115	0.5	15.0
30 Fensulfothion	2.5000	2.3747	5.0	15.0
28 Bolstar	2.5000	2.2463	10.1	15.0
30 Carbophenothion	2.5000	2.3237	7.1	15.0
33 Famphur	2.5000	2.5782	3.1	15.0
29 Triphenyl phosphate	2.5000	2.4132	3.5	15.0
32 EPN	2.5000	2.3664	5.3	15.0
34 Phosmet	2.5000	2.3119	7.5	15.0
34 Azinphos-methyl	2.5000	2.3745	5.0	15.0
35 Azinphos-ethyl	2.5000	2.4542	1.8	15.0
36 Coumaphos	2.5000	2.2102	11.6	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\048F4801.D
Report Date: 08/10/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D.i
Lab File ID: 048F4801.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\080

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4977	0.1	15.0
22 Merphos	2.5000	2.4525	1.9	15.0

Average %D = 17.4

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
====	=====	=====	=====	=====	=====	=====
1	Vial 1	PRIMER				
2	Vial 2	HEXANE				
3	Vial 3	8141 L7 GSV82609				
4	Vial 4	8141 L6 GSV87009				
5	Vial 5	8141 L5 GSV87109				
6	Vial 6	8141 L4 GSV87209				
7	Vial 7	8141 L3 GSV87309				
8	Vial 8	8141 L2 GSV87409				
9	Vial 9	8141 L1 GSV87509				
10	Vial 10	8141 SS GSV87609				
11	Vial 11	GSV0893-09 SURR				
12	Vial 12	GSV0883-09 SPK				
13	Vial 13	LG1WM1AA, MB				
14	Vial 14	LG1WM1AC, LCS				
15	Vial 15	LG1WMLAD, LCSD				
16	Vial 16	LGX0F1AE, 167-1				
17	Vial 17	LGX1P1AN, 167-2				
18	Vial 18	LG34K1AA, MB				
19	Vial 19	LG34K1AC, LCS				
20	Vial 20	LG34K1AD, LCSD				
21	Vial 21	LG2X51AA, 280-1				
22	Vial 22	LG20H1AA, 280-2				
23	Vial 23	LG20J1AA, 280-3				
24	Vial 24	LG20L1AA, 280-4				
25	Vial 25	LG20N1AA, 280-5				
26	Vial 26	LG29G1AA, 313-1				
27	Vial 27	LG3WP1AA, 149-1				
28	Vial 28	LG3XR1AA, 158-1				
29	Vial 29	8141 CCV GSV861				
30	Vial 30	LHA0K1AA, MB				
31	Vial 31	LHA0K1AC, LCS				
32	Vial 32	LHA0K1AD, LCSD				
33	Vial 33	LG7XK1AA, 180-1				
34	Vial 34	LG7XP1AA, 180-2				
35	Vial 35	LG7XQ1AA, 180-3				
36	Vial 36	LG7XQ1AC, 180-3S				
37	Vial 37	LG7XQ1AD, 180-3D				
38	Vial 38	LG7XW1AA, 180-4				
39	Vial 39	LG70G1AA, 185-1				
40	Vial 40	LHA0P1AA, MB				
41	Vial 41	LHA0P1AC, LCS				
42	Vial 42	LHA0P1AD, LCSD				
43	Vial 43	LG7N31CC, 159-1				
44	Vial 44	LG48D1AA, MB				
45	Vial 45	LG48D1AC, LCS				
46	Vial 46	LG48D1AD, LCSD				
47	Vial 47	LG3F51AD, 333-9				
48	Vial 48	LG4761AA, MB				
49	Vial 49	LG4761AC, LCS				
50	Vial 50	LG4761AD, LCSD				
51	Vial 51	LG4XL1AA, 133-1				
52	Vial 52	8141 CCV GSV861				
53	Vial 53	LG8X21AA, MB				
54	Vial 54	LG8X21AC, LCS				
55	Vial 55	LG8X21AD, LCSD				
56	Vial 56	LG1TK1AA, 108-21				
57	Vial 57	LG8TT1AA, MB				
58	Vial 58	LG8TT1AC, LCS				
59	Vial 59	LG2971AA, 314-1				

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Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
====	=====	=====	=====	=====	=====	=====
60	Vial 60	LG3AD1AA, 314-2				
61	Vial 61	LG3VM1AA, 139-1				
62	Vial 62	LG3VM1AD, 139-1S				
63	Vial 63	LG3VM1AE, 139-1D				
64	Vial 64	LG3VP1AA, 139-2				
65	Vial 65	LG3VR1AA, 139-3				
66	Vial 66	8141 CCV GSV861				
67	Vial 67	LG3W11AA, 150-1				
68	Vial 68	LG3W21AA, 150-2				
69	Vial 69	LG3W31AA, 150-3				
70	Vial 70	LG3W51AA, 150-4				
71	Vial 71	LHFXR1AA, MB				
72	Vial 72	LHFXR1AC, LCS				
73	Vial 73	LGN2D1CQ, 316-5S				
74	Vial 74	LGN2D1CR, 316-5D				
75	Vial 75	LGN2D2CN, 316-5				
76	Vial 76	LGN2J2CN, 316-10				
77	Vial 77	8141 CCV GSV861				
78	Vial 2	HEXANE/ACETONE				

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Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
====	=====	=====	=====	=====	=====	=====
1	Vial 1	PRIMER				
2	Vial 2	HEXANE				
3	Vial 3	8141 CCV GSV861				
4	Vial 4	LG34C1AA, MB				
5	Vial 5	LGW541AA, 293-1				
6	Vial 6	LGW551AA, 293-2				
7	Vial 7	LGW561AA, 293-3				
8	Vial 8	LGW571AA, 293-4				
9	Vial 9	LG8TE1AA, MB				
10	Vial 10	LGW581AA, 293-5				
11	Vial 11	LGW591AA, 293-6				
12	Vial 12	LGW6A1AA, 293-7				
13	Vial 13	LGW6C1AA, 293-8				
14	Vial 14	8141 CCV GSV861				
15	Vial 15	LHF291AA, MB				
16	Vial 16	LHF291AC, LCS				
17	Vial 17	LHF291AD, LCSD				
18	Vial 18	LG7QW1AA, 166-1				
19	Vial 19	LHCVW1AA, 166-2				
20	Vial 20	LHCX51AA, 185-1				
21	Vial 21	LHF3A1AA, MB				
22	Vial 22	LHF3A1AC, LCS				
23	Vial 23	LHF3A1AD, LCSD				
24	Vial 24	LHC3A1AA, 193-1				
25	Vial 25	LHC3E1AA, 193-2				
26	Vial 26	LHC3G1AA, 193-3				
27	Vial 27	LHC3J1AA, 193-4				
28	Vial 28	LHC3M1AA, 193-5				
29	Vial 29	LHC3P1AA, 193-6				
30	Vial 30	LHC3Q1AA, 193-7				
31	Vial 31	8141 CCV GSV861				
32	Vial 32	LHKE31AA, MB				
33	Vial 33	LHK3E1AC, LCS				
34	Vial 34	LHK3E1AD, LCSD				
35	Vial 35	LHHN71AA, 268-1				
36	Vial 36	LHHN81AA, 268-2				
37	Vial 37	LHHN91AA, 268-3				
38	Vial 38	LHHPA1AA, 268-4				
39	Vial 39	LHHPC1AA, 268-5				
40	Vial 40	LHHPD1AA, 268-6				
41	Vial 41	LHHPE1AA, 268-7				
42	Vial 42	LHHPF1AA, 268-8				
43	Vial 43	LHK3A1AA, MB				
44	Vial 44	LHK3A1AC, LCS				
45	Vial 45	LHK3A1AD, LCSD				
46	Vial 46	LHG7R1AA, 197-1				
47	Vial 47	LHJ511AA, 234-1				
48	Vial 48	8141 CCV GSV861				
49	Vial 49	LHFXQ1AA, MB				
50	Vial 50	LHFXQ1AC, LCS				
51	Vial 51	LHA071AA, 332-1				
52	Vial 52	LHA071AD, 332-1S				
53	Vial 53	LHA071AE, 332-1D				
54	Vial 54	LHA081AA, 332-2				
55	Vial 55	LHC041AA, 187-1				
56	Vial 56	LHC1K1AA, 187-2				
57	Vial 57	8141 CCV GSV861				
58	Vial 58	8141 L1 GSV862				
59	Vial 59	LG2M71AA, MB				

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9217512

9217511

9215379

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	LG2M71AC, LCS				
61	Vial 61	LGQ171AQ, 204-2				
62	Vial 62	LGQ171D0, 204-2S				
63	Vial 63	LGQ171D1, 204-2D				
64	Vial 64	LGQ2E1AQ, 204-7				
65	Vial 65	LGQ2F1AQ, 204-8				
66	Vial 66	LGQ2G1AQ, 204-9				
67	Vial 67	LGQ2H1AQ, 204-10				
68	Vial 68	LGQ2J1AQ, 204-11				
69	Vial 69	8141 CCV GSV861				
70	Vial 70	LGQ2K1AQ, 204-12				
71	Vial 71	LGQ2L1AQ, 204-13				
72	Vial 72	LGQ2M1AQ, 204-14				
73	Vial 73	LGQ2N1AQ, 204-15				
74	Vial 74	LGT191AT, 319-17				
75	Vial 75	LGT2A1A5, 319-18				
76	Vial 76	LGT2C1A5, 319-19				
77	Vial 77	LGT2D1AG, 319-20				
78	Vial 78	LGT2F1AG, 319-22				
79	Vial 79	8141 CCV GSV861				
80	Vial 80	8141 L1 GSV862				
81	Vial 2	HEXANE/ACETONE				

Sequence Table (Back Injector):

No entries - empty table!

TestAmerica
Total Metals
CLP-Like Forms

Lot ID: D9H040187

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.: D9H040187

Lab Code: _____ Case No.: _____

SAS No.: _____

SOW No.: _____

<u>Sample ID.</u>	<u>Lab Sample No.</u>
<u>M-31AB</u>	<u>D9H040187-001</u>
<u>M-31AB MS</u>	<u>D9H040187-001S</u>
<u>M-31AB MSD</u>	<u>D9H040187-001SD</u>

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: 8/14/09

Title: Metals Analyst

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
Sample Aliquot: 50 mL
Dilution Factor: 10

Client Sample ID: M-31AB
Lab Sample ID: D9H040187-001
Lab WorkOrder: LHG1P
Date/Time Collected: 08/03/09 09:15
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:38
Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	100	2.1	50	
7782-49-2	Selenium	9.6	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.: D9H040187

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	40.0	40.0	100.0	50.0	49.2	98.4	49.3	98.6	M
Selenium	40.0	41.9	104.8	50.0	48.4	96.8	50.0	100.0	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.: D9H040187

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	49.6	99.2	49.3	98.6	M
Selenium				50.0	50.0	100.0	51.8	103.6	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.: D9H040187

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	49.8	99.6	49.1	98.2	M
Selenium				50.0	50.7	101.4	48.8	97.6	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.: D9H040187
 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		
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.00	1.020	102.0		
Selenium				1.00	1.298	129.8		

Comments:

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-132B
Lab WorkOrder: LHH8T
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:32
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.: D9H040187

Preparation Blank Matrix (soil/water): WATER

Preparation 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		
Arsenic	0.210 U	0.210 U		0.210 U		0.210 U		0.21 U	U	M
Selenium	0.700 U	0.700 U		0.700 U		0.700 U		0.70 U	U	M

Comments:

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

Preparation Blank Matrix (soil/water): WATER

Preparation 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
		1	C	2	C	3	C			
Arsenic		0.210	U	0.210	U	0.210	U			M
Selenium		0.700	U	0.700	U	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.: D9H040187

ICP ID Number: Agilent 7500 ICS Source: Inorganic Ventures

Concentration 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	0.41	100.70	100.7	0.40	104.70	104.7
Selenium	0.0	100.0	0.04	104.50	104.5	0.69	113.30	113.3

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
MS Sample Aliquot: 50 mL
MS Dilution Factor: 10

Client Sample ID: M-31AB
MS Lab Sample ID: D9H040187-001S
MS Lab WorkOrder: LHGIP
Date/Time Collected: 08/03/09 09:15
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:46
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	100		150		116		85 - 117
Selenium	40.0	9.6	B	54.7		113		77 - 122

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
MSD Sample Aliquot: 50 mL
MSD Dilution Factor: 10

Client Sample ID: M-31AB
MSD Lab Sample ID: D9H040187-001D
MSD Lab WorkOrder: LHG1P
Date/Time Collected: 08/03/09 09:15
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:49
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	100		148		110		1.5		85 - 117	20
Selenium	40.0	9.6	B	53.8		111		1.6		77 - 122	20

Total Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

M-31AB PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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	214.600	10.380	200.00	102.1		M
Selenium	75 - 125	202.900	0.958 B	200.00	101.0		M

Comments: _____

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-132C
Lab WorkOrder: LHH8T
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:35
Instrument ID: 024

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	39.4	99		85 - 117
Selenium	40.0	39.1	98		77 - 122

Total Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

M-31AB SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
	C		C				
Arsenic	10.380		10.750	B	3.6		M
Selenium	0.958	B	3.500	U	100.0		M

Comments: _____

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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.: D9H040187

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.: D9H040187

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
M-31AB	8/5/2009	50.0	50.0
M-31AB MS	8/5/2009	50.0	50.0
M-31AB MSD	8/5/2009	50.0	50.0
MB9217132	8/5/2009	50.0	50.0
Check Sample	8/5/2009	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.: D9H040187

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N		
CAL BLANK	1.00	18:06			X															X									
100 PPB	1.00	18:09			X															X									
ICV	1.00	18:12			X															X									
ICB	1.00	18:17			X															X									
RL STD	1.00	18:20			X															X									
ICSA	1.00	18:28			X															X									
ICSAB	1.00	18:31			X															X									
RINSE	1.00	18:34			X															X									
LR	1.00	18:36			X															X									
RINSE	1.00	18:39			X															X									
CCV	1.00	18:42			X															X									
CCB	1.00	18:45			X															X									
CAL BLANK	1.00	21:53			X															X									
100 PPB	1.00	21:56			X															X									
CCV	1.00	21:58			X															X									
CCB	1.00	22:01			X															X									
ICSA	1.00	22:07			X															X									
ICSAB	1.00	22:09			X															X									
WASH	1.00	22:12			X															X									
CCV	1.00	22:15			X															X									
CCB	1.00	22:18			X															X									
CAL BLANK	1.00	23:51			X															X									
100 PPB	1.00	23:54			X															X									
CCV	1.00	23:56			X															X									
CCB	1.00	23:59			X															X									
CCV	1.00	00:24			X															X									
CCB	1.00	00:27			X															X									
MB9217132	1.00	00:32			X															X									
Check Sample	1.00	00:35			X															X									
M-31AB	10.00	00:38			X															X									
M-31AB SER	50.00	00:41			X															X									
M-31AB PDS	1.00	00:43			X															X									
M-31AB MS	10.00	00:46			X															X									

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

Total Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9H040187

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N				
M-31AB MSD	10.00	00:49				X															X										
CCV	1.00	00:54				X															X										
CCB	1.00	00:57				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: D9H040187

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.: D9H040187
Lab Code: _____ Case No.: _____ SAS No.: _____
SOW No.: _____

<u>Sample ID.</u>	<u>Lab Sample No.</u>
<u>M-31ABDISS</u>	<u>D9H040187-002</u>
<u>M-31ABDISS MS</u>	<u>D9H040187-002S</u>
<u>M-31ABDISS MSD</u>	<u>D9H040187-002SD</u>

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: 8/14/09 Title: Metals Analyst

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>M-31ABDISS</u>
Lot/SDG Number:	<u>D9H040187</u>	Lab Sample ID:	<u>D9H040187-002</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>LHG1R</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>08/03/09 09:15</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>08/04/09 08:45</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>08/05/09 13:00</u>
QC Batch ID:	<u>9217128</u>	Date/Time Analyzed:	<u>08/11/09 00:10</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	110	2.1	50	
7782-49-2	Selenium	16	7.0	50	B

Dissolved Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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	40.0	40.0	100.0	50.0	49.2	98.4	49.3	98.6	M
Selenium	40.0	41.9	104.8	50.0	48.4	96.8	50.0	100.0	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.: D9H040187

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	49.6	99.2	49.3	98.6	M
Selenium				50.0	50.0	100.0	51.8	103.6	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.: D9H040187

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	49.8	99.6			M
Selenium				50.0	50.7	101.4			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.: D9H040187

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	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.00	1.020	102.0		
Selenium				1.00	1.298	129.8		

Comments:

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217128
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-128B
Lab WorkOrder: LHH8K
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:05
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-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

Preparation Blank Matrix (soil/water): WATER

Preparation 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	2	3	C	C	C	C		
Arsenic	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.21	U	M	
Selenium	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.70	U	M	

Comments:

Dissolved Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

Preparation Blank Matrix (soil/water): WATER

Preparation 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
		1	C	2	C	3	C			
Arsenic		0.210	U	0.210	U					M
Selenium		0.700	U	0.700	U					M

Comments:

Dissolved Metals Analysis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

ICP ID Number: Agilent 7500 ICS Source: Inorganic Ventures

Concentration 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	0.41	100.70	100.7	0.40	104.70	104.7
Selenium	0.0	100.0	0.04	104.50	104.5	0.69	113.30	113.3

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217128
MS Sample Aliquot: 50 mL
MS Dilution Factor: 10

Client Sample ID: M-31ABDISS
MS Lab Sample ID: D9H040187-002S
MS Lab WorkOrder: LHG1R
Date/Time Collected: 08/03/09 09:15
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:18
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	110		150		96		85 - 117
Selenium	40.0	16	B	53.4		95		77 - 122

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217128
MSD Sample Aliquot: 50 mL
MSD Dilution Factor: 10

Client Sample ID: M-31ABDISS
MSD Lab Sample ID: D9H040187-002D
MSD Lab WorkOrder: LHG1R
Date/Time Collected: 08/03/09 09:15
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:21
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	110		154		104		2.0		85 - 117	20
Selenium	40.0	16	B	48.1		81		10		77 - 122	20

Dissolved Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

M-31ABDISS PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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	217.500	11.190	200.00	103.2		M
Selenium	75 - 125	211.900	1.555 B	200.00	105.2		M

Comments: _____

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040187
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217128
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-128C
Lab WorkOrder: LHH8K
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:07
Instrument ID: 024

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	40.9	102		85 - 117
Selenium	40.0	40.9	102		77 - 122

Dissolved Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

M-31ABDISS SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
	C		C				
Arsenic	11.190		10.725	B	4.2		M
Selenium	1.555	B	3.813	B	145.2		M

Comments: _____

Dissolved Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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: _____

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

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040187

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.: D9H040187

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
M-31ABDISS	8/5/2009	50.0	50.0
M-31ABDISS MS	8/5/2009	50.0	50.0
M-31ABDISS MSD	8/5/2009	50.0	50.0
MB9217128	8/5/2009	50.0	50.0
Check Sample	8/5/2009	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.: D9H040187

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N				
CAL BLANK	1.00	18:06			X															X											
100 PPB	1.00	18:09			X															X											
ICV	1.00	18:12			X															X											
ICB	1.00	18:17			X															X											
RL STD	1.00	18:20			X															X											
ICSA	1.00	18:28			X															X											
ICSAB	1.00	18:31			X															X											
RINSE	1.00	18:34			X															X											
LR	1.00	18:36			X															X											
RINSE	1.00	18:39			X															X											
CCV	1.00	18:42			X															X											
CCB	1.00	18:45			X															X											
CAL BLANK	1.00	21:53			X															X											
100 PPB	1.00	21:56			X															X											
CCV	1.00	21:58			X															X											
CCB	1.00	22:01			X															X											
ICSA	1.00	22:07			X															X											
ICSAB	1.00	22:09			X															X											
WASH	1.00	22:12			X															X											
CCV	1.00	22:15			X															X											
CCB	1.00	22:18			X															X											
CAL BLANK	1.00	23:51			X															X											
100 PPB	1.00	23:54			X															X											
CCV	1.00	23:56			X															X											
CCB	1.00	23:59			X															X											
MB9217128	1.00	00:05			X															X											
Check Sample	1.00	00:07			X															X											
M-31ABDISS	10.00	00:10			X															X											
M-31ABDISS SER	50.00	00:13			X															X											
M-31ABDISS PDS	1.00	00:16			X															X											
M-31ABDISS MS	10.00	00:18			X															X											
M-31ABDISS MSD	10.00	00:21			X															X											
CCV	1.00	00:24			X															X											

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

Dissolved Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9H040187

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N
CCB	1.00	00:27				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: D9H040190

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Sample: 001

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040190
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
Sample Aliquot: 50 mL
Dilution Factor: 20

Client Sample ID: M-50B
Lab Sample ID: D9H040190-001
Lab WorkOrder: LHG21
Date/Time Collected: 08/03/09 12:05
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:51
Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	81	4.2	100	B
7782-49-2	Selenium	14	14	100	U

Total Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040190

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	40.0	40.0	100.0	50.0	49.2	98.4	49.3	98.6	M
Selenium	40.0	41.9	104.8	50.0	48.4	96.8	50.0	100.0	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.: D9H040190

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	49.6	99.2	49.3	98.6	M
Selenium				50.0	50.0	100.0	51.8	103.6	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.: D9H040190

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	49.8	99.6	49.1	98.2	M
Selenium				50.0	50.7	101.4	48.8	97.6	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.: D9H040190

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		
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.00	1.020	102.0		
Selenium				1.00	1.298	129.8		

Comments:

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040190
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-132B
Lab WorkOrder: LHH8T
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:32
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.: D9H040190

Preparation Blank Matrix (soil/water): WATER

Preparation 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				
Arsenic	0.210 U	0.210	U	0.210	U	0.210	U	0.210	U	0.21	U	M
Selenium	0.700 U	0.700	U	0.700	U	0.700	U	0.700	U	0.70	U	M

Comments:

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040190

Preparation Blank Matrix (soil/water): WATER

Preparation 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
		1	C	2	C	3	C			
Arsenic		0.210	U	0.210	U	0.210	U			M
Selenium		0.700	U	0.700	U	0.700	U			M

Comments:

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040190
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
MS Sample Aliquot: 50 mL
MS Dilution Factor: 10

Client Sample ID: LAB MS/MSD
MS Lab Sample ID: D9H040187-001S
MS Lab WorkOrder: LHG1P
Date/Time Collected: 08/03/09 09:15
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:46
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	100		150		116		85 - 117
Selenium	40.0	9.6	B	54.7		113		77 - 122

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040190
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
MSD Sample Aliquot: 50 mL
MSD Dilution Factor: 10

Client Sample ID: LAB MS/MSD
MSD Lab Sample ID: D9H040187-001D
MSD Lab WorkOrder: LHG1P
Date/Time Collected: 08/03/09 09:15
Date/Time Received: 08/04/09 08:45
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:49
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	100		148		110		1.5		85 - 117	20
Selenium	40.0	9.6	B	53.8		111		1.6		77 - 122	20

Total 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.: D9H040190

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	214.600	10.380	200.00	102.1		M
Selenium	75 - 125	202.900	0.958 B	200.00	101.0		M

Comments: _____

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H040190
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9217132
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H050000-132C
Lab WorkOrder: LHH8T
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/05/09 13:00
Date/Time Analyzed: 08/11/09 00:35
Instrument ID: 024

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	39.4	99		85 - 117
Selenium	40.0	39.1	98		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.: D9H040190

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Arsenic	10.380	10.750	3.6		M
Selenium	0.958	3.500	100.0		M

Comments: _____

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H040190

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.: D9H040190

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.: D9H040190

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
INTRA-LAB QC	8/5/2009	50.0	50.0
LAB MS/MSD MS	8/5/2009	50.0	50.0
LAB MS/MSD MSD	8/5/2009	50.0	50.0
M-50B	8/5/2009	50.0	50.0
MB9217132	8/5/2009	50.0	50.0
Check Sample	8/5/2009	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.: D9H040190

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N				
CAL BLANK	1.00	18:06			X															X											
100 PPB	1.00	18:09			X															X											
ICV	1.00	18:12			X															X											
ICB	1.00	18:17			X															X											
RL STD	1.00	18:20			X															X											
ICSA	1.00	18:28			X															X											
ICSAB	1.00	18:31			X															X											
RINSE	1.00	18:34			X															X											
LR	1.00	18:36			X															X											
RINSE	1.00	18:39			X															X											
CCV	1.00	18:42			X															X											
CCB	1.00	18:45			X															X											
CAL BLANK	1.00	21:53			X															X											
100 PPB	1.00	21:56			X															X											
CCV	1.00	21:58			X															X											
CCB	1.00	22:01			X															X											
ICSA	1.00	22:07			X															X											
ICSAB	1.00	22:09			X															X											
WASH	1.00	22:12			X															X											
CCV	1.00	22:15			X															X											
CCB	1.00	22:18			X															X											
CAL BLANK	1.00	23:51			X															X											
100 PPB	1.00	23:54			X															X											
CCV	1.00	23:56			X															X											
CCB	1.00	23:59			X															X											
CCV	1.00	00:24			X															X											
CCB	1.00	00:27			X															X											
MB9217132	1.00	00:32			X															X											
Check Sample	1.00	00:35			X															X											
INTRA-LAB QC	10.00	00:38			X															X											
INTRA-LAB QC SER	50.00	00:41			X															X											
INTRA-LAB QC PDS	1.00	00:43			X															X											
LAB MS/MSD MS	10.00	00:46			X															X											

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

Total Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9H040190

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N				
LAB MS/MSD MSD	10.00	00:49				X																						X			
M-50B	20.00	00:51				X																						X			
CCV	1.00	00:54				X																						X			
CCB	1.00	00:57				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: D9H050230

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.: D9H050230

Lab Code: _____ Case No.: _____

SAS No.: _____

SOW No.: _____

<u>Sample ID.</u>	<u>Lab Sample No.</u>
<u>M-21B</u>	<u>D9H050230-001</u>
<u>M-21B MS</u>	<u>D9H050230-001S</u>
<u>M-21B MSD</u>	<u>D9H050230-001SD</u>

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: 8/14/09

Title: Metals Analyst

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050230
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID: M-21B
Lab Sample ID: D9H050230-001
Lab WorkOrder: LHJ5J
Date/Time Collected: 08/04/09 09:30
Date/Time Received: 08/05/09 08:45
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:08
Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	93	0.21	5.0	
7782-49-2	Selenium	5.6	0.70	5.0	

Total Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H050230

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	40.0	40.0	100.0	50.0	49.2	98.4	49.3	98.6	M
Selenium	40.0	41.9	104.8	50.0	48.4	96.8	50.0	100.0	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.: D9H050230

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	49.6	99.2	49.3	98.6	M
Selenium				50.0	50.0	100.0	51.8	103.6	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.: D9H050230

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	49.1	98.2	49.1	98.2	M
Selenium				50.0	48.8	97.6	49.0	98.0	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.: D9H050230

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		
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.00	1.020	102.0		
Selenium				1.00	1.298	129.8		

Comments:

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050230
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H060000-437B
Lab WorkOrder: LHOK3
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:03
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.: D9H050230

Preparation Blank Matrix (soil/water): WATER

Preparation 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	2	3	4	5	6	C	U	
Arsenic	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.21	U	M
Selenium	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.70	U	M

Comments:

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H050230

Preparation Blank Matrix (soil/water): WATER

Preparation 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
		1	C	2	C	3	C			
Arsenic		0.210	U	0.210	U	0.210	U			M
Selenium		0.700	U	0.700	U	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.: D9H050230

ICP ID Number: Agilent 7500 ICS Source: Inorganic Ventures

Concentration 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	0.41	100.70	100.7	0.40	104.70	104.7
Selenium	0.0	100.0	0.04	104.50	104.5	0.69	113.30	113.3

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050230
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
MS Sample Aliquot: 50 mL
MS Dilution Factor: 1

Client Sample ID: M-21B
MS Lab Sample ID: D9H050230-001S
MS Lab WorkOrder: LHJ5J
Date/Time Collected: 08/04/09 09:30
Date/Time Received: 08/05/09 08:45
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:16
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	93		136		108		85 - 117
Selenium	40.0	5.6		51.7		115		77 - 122

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050230
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
MSD Sample Aliquot: 50 mL
MSD Dilution Factor: 1

Client Sample ID: M-21B
MSD Lab Sample ID: D9H050230-001D
MSD Lab WorkOrder: LHJ5J
Date/Time Collected: 08/04/09 09:30
Date/Time Received: 08/05/09 08:45
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:19
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	93		136		107		0.22		85 - 117	20
Selenium	40.0	5.6		52.1		116		0.67		77 - 122	20

Total Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

M-21B PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H050230

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	294.500	92.870	200.00	100.8		M
Selenium	75 - 125	230.400	5.643	200.00	112.4		M

Comments: _____

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050230
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H060000-437C
Lab WorkOrder: LHOK3
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:05
Instrument ID: 024

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	39.0	97		85 - 117
Selenium	40.0	39.6	99		77 - 122

Total Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

M-21B SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H050230

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Arsenic	92.870	93.200	0.4		M
Selenium	5.643	6.980	23.7		M

Comments: _____

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

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

SDG NO.: D9H050230

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.: D9H050230

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.: D9H050230

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
M-21B	8/7/2009	50.0	50.0
M-21B MS	8/7/2009	50.0	50.0
M-21B MSD	8/7/2009	50.0	50.0
MB9218437	8/7/2009	50.0	50.0
Check Sample	8/7/2009	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.: D9H050230

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N				
CAL BLANK	1.00	18:06			X																X										
100 PPB	1.00	18:09			X																X										
ICV	1.00	18:12			X																X										
ICB	1.00	18:17			X																X										
RL STD	1.00	18:20			X																X										
ICSA	1.00	18:28			X																X										
ICSAB	1.00	18:31			X																X										
RINSE	1.00	18:34			X																X										
LR	1.00	18:36			X																X										
RINSE	1.00	18:39			X																X										
CCV	1.00	18:42			X																X										
CCB	1.00	18:45			X																X										
CAL BLANK	1.00	21:53			X																X										
100 PPB	1.00	21:56			X																X										
CCV	1.00	21:58			X																X										
CCB	1.00	22:01			X																X										
ICSA	1.00	22:07			X																X										
ICSAB	1.00	22:09			X																X										
WASH	1.00	22:12			X																X										
CCV	1.00	22:15			X																X										
CCB	1.00	22:18			X																X										
CAL BLANK	1.00	23:51			X																X										
100 PPB	1.00	23:54			X																X										
CCV	1.00	23:56			X																X										
CCB	1.00	23:59			X																X										
CCV	1.00	00:54			X																X										
CCB	1.00	00:57			X																X										
MB9218437	1.00	01:03			X																X										
Check Sample	1.00	01:05			X																X										
M-21B	1.00	01:08			X																X										
M-21B SER	5.00	01:11			X																X										
M-21B PDS	1.00	01:14			X																X										
M-21B MS	1.00	01:16			X																X										

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

Total Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9H050230

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N		
M-21B MSD	1.00	01:19				X															X								
CCV	1.00	01:25				X															X								
CCB	1.00	01:27				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: D9H050234

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.: D9H050234

Lab Code: _____ Case No.: _____

SAS No.: _____

SOW No.: _____

Sample ID.

Lab Sample No.

FB080409-GW

D9H050234-001

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: 8/14/09

Title: Metals Analyst

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>FB080409-GW</u>
Lot/SDG Number:	<u>D9H050234</u>	Lab Sample ID:	<u>D9H050234-001</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>LHJ51</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>08/04/09 11:00</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>08/05/09 08:45</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>08/07/09 07:00</u>
QC Batch ID:	<u>9218437</u>	Date/Time Analyzed:	<u>08/11/09 01:22</u>
Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
Dilution Factor:	<u>1</u>		

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

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H050234

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	40.0	40.0	100.0	50.0	49.2	98.4	49.3	98.6	M
Selenium	40.0	41.9	104.8	50.0	48.4	96.8	50.0	100.0	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.: D9H050234

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	49.6	99.2	49.3	98.6	M
Selenium				50.0	50.0	100.0	51.8	103.6	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.: D9H050234

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	49.1	98.2	49.1	98.2	M
Selenium				50.0	48.8	97.6	49.0	98.0	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.: D9H050234

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	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.00	1.020	102.0		
Selenium				1.00	1.298	129.8		

Comments:

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050234
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H060000-437B
Lab WorkOrder: LHOK3
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:03
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.: D9H050234

Preparation Blank Matrix (soil/water): WATER

Preparation 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	
		1	C	2	C	3	C				
Arsenic	0.210 U	0.210	U	0.210	U	0.210	U	0.210	U	0.21 U	M
Selenium	0.700 U	0.700	U	0.700	U	0.700	U	0.700	U	0.70 U	M

Comments:

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H050234

Preparation Blank Matrix (soil/water): WATER

Preparation 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		
Arsenic		0.210	U	0.210	U	0.210	U		M
Selenium		0.700	U	0.700	U	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.: D9H050234

ICP ID Number: Agilent 7500 ICS Source: Inorganic Ventures

Concentration 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	0.41	100.70	100.7	0.40	104.70	104.7
Selenium	0.0	100.0	0.04	104.50	104.5	0.69	113.30	113.3

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050234
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
MS Sample Aliquot: 50 mL
MS Dilution Factor: 1

Client Sample ID: LAB MS/MSD
MS Lab Sample ID: D9H050230-001S
MS Lab WorkOrder: LHJ5J
Date/Time Collected: 08/04/09 09:30
Date/Time Received: 08/05/09 08:45
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:16
Instrument ID: 024

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	93		136		108		85 - 117
Selenium	40.0	5.6		51.7		115		77 - 122

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER

Client Sample ID: LAB MS/MSD

Lot/SDG Number: D9H050234

MSD Lab Sample ID: D9H050230-001D

Matrix: WATER

MSD Lab WorkOrder: LHJ5J

% Moisture: N/A

Date/Time Collected: 08/04/09 09:30

Basis: Wet

Date/Time Received: 08/05/09 08:45

Analysis Method: 6020

Date Leached:

Unit: ug/L

Date/Time Extracted: 08/07/09 07:00

QC Batch ID: 9218437

Date/Time Analyzed: 08/11/09 01:19

MSD Sample Aliquot: 50 mL

Instrument ID: 024

MSD Dilution Factor: 1

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	93		136		107		0.22		85 - 117	20
Selenium	40.0	5.6		52.1		116		0.67		77 - 122	20

Total 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.: D9H050234

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	294.500	92.870	200.00	100.8		M
Selenium	75 - 125	230.400	5.643	200.00	112.4		M

Comments: _____

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9H050234
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 6020
Unit: ug/L
QC Batch ID: 9218437
Sample Aliquot: 50 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9H060000-437C
Lab WorkOrder: LHOK3
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 08/07/09 07:00
Date/Time Analyzed: 08/11/09 01:05
Instrument ID: 024

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	39.0	97		85 - 117
Selenium	40.0	39.6	99		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.: D9H050234

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Arsenic	92.870	93.200	0.4		M
Selenium	5.643	6.980	23.7		M

Comments: _____

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9H050234

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.: D9H050234

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.: D9H050234

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
INTRA-LAB QC	8/7/2009	50.0	50.0
LAB MS/MSD MS	8/7/2009	50.0	50.0
LAB MS/MSD MSD	8/7/2009	50.0	50.0
FB080409-GW	8/7/2009	50.0	50.0
MB9218437	8/7/2009	50.0	50.0
Check Sample	8/7/2009	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.: D9H050234

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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 I	S E	A G	N A	T L	V L	Z N	C N				
CAL BLANK	1.00	18:06			X															X											
100 PPB	1.00	18:09			X															X											
ICV	1.00	18:12			X															X											
ICB	1.00	18:17			X															X											
RL STD	1.00	18:20			X															X											
ICSA	1.00	18:28			X															X											
ICSAB	1.00	18:31			X															X											
RINSE	1.00	18:34			X															X											
LR	1.00	18:36			X															X											
RINSE	1.00	18:39			X															X											
CCV	1.00	18:42			X															X											
CCB	1.00	18:45			X															X											
CAL BLANK	1.00	21:53			X															X											
100 PPB	1.00	21:56			X															X											
CCV	1.00	21:58			X															X											
CCB	1.00	22:01			X															X											
ICSA	1.00	22:07			X															X											
ICSAB	1.00	22:09			X															X											
WASH	1.00	22:12			X															X											
CCV	1.00	22:15			X															X											
CCB	1.00	22:18			X															X											
CAL BLANK	1.00	23:51			X															X											
100 PPB	1.00	23:54			X															X											
CCV	1.00	23:56			X															X											
CCB	1.00	23:59			X															X											
CCV	1.00	00:54			X															X											
CCB	1.00	00:57			X															X											
MB9218437	1.00	01:03			X															X											
Check Sample	1.00	01:05			X															X											
INTRA-LAB QC	1.00	01:08			X															X											
INTRA-LAB QC SER	5.00	01:11			X															X											
INTRA-LAB QC PDS	1.00	01:14			X															X											
LAB MS/MSD MS	1.00	01:16			X															X											

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

Total Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9H050234

Instrument ID Number: Agilent 7500 Method: M

Start Date: 8/10/2009 End Date: 8/11/2009

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	S E	A G	N A	T L	V	Z N	C N		
LAB MS/MSD MSD	1.00	01:19				X														X									
FB080409-GW	1.00	01:22				X														X									
CCV	1.00	01:25				X														X									
CCB	1.00	01:27				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.

25

Required Ship to Lab:

Required Project Information:

Required Invoice Information:

Lab Name: TestAmerica Site ID #: TRONOX LLC - HENDERSON Send Invoice to: Susan Crowley TAT: Standard 30 day Rush Mark One

Address: 4955 Yarrow Street Project #: 2027.001 Address: PO Box 55 City/State: Henderson, NV 89009 Phone #: (949)260-9293 If Rush, Date due: Rush Mark One

Arvada, CO 80002 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

Lab PM: Michael P. Phillips City: Henderson State: NV Reimbursement project? Non-reimbursement project? Mark one

Phone/Fax: 303-736-0157 Site PM Name: Derrick Willis Send EDD to: Frank Hagar Northgate Environmental Management, Inc MA MCP Cert? CT RCP Cert? Mark One

Lab PM email: mtrazee@northgate.com Phone/Fax: 949-375-7004 CC Hardcopy report to: Frank Hagar Northgate Environmental Management, Inc PDF Electronic Version Only Lab Project ID (lab use):

Applicable Lab Quote #: Site PM Email: derrick.willis@ngem.com CC Hardcopy report to: see additional comments below

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives							Requested Analyses	Comments/Lab Sample I.D.
								Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		
1	M-31AB	WG	G	8/3/2009	9:15 AM	1	N		X							500 ml Plastic
2	M-31ABDISS	WG	G	8/3/2009	9:15 AM	1	Y	X								500 ml Plastic
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Valid Matrix Codes		Matrix		Matrix	
WG	GROUND WATER	WG	SURFACE WATER	WG	WASTE WATER
UR	URINARY	UR	URINARY	UR	URINARY
SL	SLUDGE	SL	SLUDGE	SL	SLUDGE
SP	SPERMATOPHYTES	SP	SPERMATOPHYTES	SP	SPERMATOPHYTES
OT	OTHER	OT	OTHER	OT	OTHER
MA	MATERIAL	MA	MATERIAL	MA	MATERIAL
AS	ANIMAL TISSUE	AS	ANIMAL TISSUE	AS	ANIMAL TISSUE
OT	OTHER	OT	OTHER	OT	OTHER
OT	OTHER	OT	OTHER	OT	OTHER
OT	OTHER	OT	OTHER	OT	OTHER
OT	OTHER	OT	OTHER	OT	OTHER

REMOVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
DAVID BROWN NGEM	8/3/09	14:00	DAVID BROWN NGEM	8/3	14:00
FRANK HAGAR NGEM	8/3	14:00	FRANK HAGAR NGEM	8/3	14:00

SHIPPING METHOD (check as appropriate)	SAMPLER NAME AND SIGNATURE	DATE SIGNED	TIME	Temp in OC	Samples on Ice?	Sample intact?	Trip Blank?
UPS COURIER FEDEX	DAVID BROWN	8/3/2009	14:00		Y/N	Y/N	Y/N
US MAIL	FRANK HAGAR	8/3/2009	14:00		Y/N	Y/N	Y/N

As Se only by collision cell
All PDF reports and EDDs will be uploaded to:
Northgate Environmental Management, Inc.
FTP site address provided to labs
Notifications provided to:
cindy.arnold@ngem.com
frank.hagar@ngem.com

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9H040187 Date/Time Received: 8/4/09 0845

Company Name & Sampling Site: Northgate - TRONOX

PM to Complete This Section: Yes No Quarantined: Yes No

Residual chlorine check required:

Quote #: 83216

Special Instructions:

Time Zone:

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

Unpacking Checks:

Cooler #(s): _____

Temperatures (°C): 2.5 _____

N/A Yes No

Initials

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

TestAmerica Denver
Sample Receiving Checklist

Lot # D9H040181

Login Checks:

Initials

N/A Yes No

AM.

19. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) document on CUR, and contact PM before proceeding. If no,
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? 1
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

AM.

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: Vivian Willis [vivian.willis@verdant-solutions.com]
Sent: Tuesday, August 04, 2009 3:21 PM
To: Dana.Brown@ngem.com; Brendan Mulholland
Cc: Middleditch, Eric; Phillips, Michael; carnold@ngem.com; Frank.Hagar@ngem.com; Derrick.Willis@ngem.com; 'Victoria Hansen'
Subject: RE: TRONOX receipt discrepancies - August 4, 2009

1) Volume was not received to perform the dissolved metals analysis of sample M-50BDISS. COC No is 2027.001300339

Missing bottle for Dissolved metals for the Northgate crew.

Vivian Willis



From: Phillips, Michael [mailto:Michael.Phillips@testamericainc.com]
Sent: Tuesday, August 04, 2009 12:46 PM
To: carnold@ngem.com; Frank.Hagar@ngem.com; Derrick.Willis@ngem.com; Vivian Willis; Victoria Hansen
Cc: Middleditch, Eric
Subject: FW: TRONOX receipt discrepancies - August 4, 2009

All,

Please see item 1) and 3) in Eric Middleditch's message below for issues with the samples received today, 8-4-09. These will need to be resolved before we can log in the samples.

For item 2) below, it appears that you have sent replacement samples for the samples originally received on Saturday, 8-1-09 (RSAJ3-10B and RSAJ3-29B), since the sample ids are the same and the COC is the same (2027.001.00490). For the samples received today, we have sufficient volume (two 4 oz jars). So, should we discard the samples received on Saturday, 8-1-09? Also note that the COC we received today only shows one 4 oz jar rather than two and the sample ids do not include "SPLP". Please confirm that this is correct and we will proceed.

For FB072909-SO for 8141A (COC# 2027.001.00468) that we received on 7/31/09, the note in the lower left hand corner says that this FB is associated with Area II samples. The soil samples we received last week are RSAU4-20, RSAU4-50, SA73-0.5B, and SA73-30B. Should FB072909-SO be associated in the same SDG with these soil samples? Please confirm.

Thanks.

MICHAEL P. PHILLIPS

Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4955 Yarrow Street
Arvada, CO 80002
Tel 303-736-0157 | Fax 303-432-8925
www.testamericainc.com

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

From: Middleditch, Eric
Sent: Tuesday, August 04, 2009 1:19 PM
To: Phillips, Michael
Subject: TRONOX receipt discrepancies - August 4, 2009

<<TRONOX COCs - August 4, 2009.pdf>>

1) Volume was not received to perform the dissolved metals analysis of sample M-50BDISS. COC No is 2027.001300339

2) According to COC No 2027.001.00490, samples RSAJ3-10B and RSAJ3-29B are to be analyzed for 8141 OP-Pest using a SPLP prep. Sufficient volume was received (2 4oz jars for each sample) in order to perform the requested analysis/SPLP prep however the COC only indicates that 1 4oz jar was to be received and "SPLP" does not appear in the sample ID.

3) Sample EB080309-SO arrived at TestAmerica Denver but did not appear on any of the chains of custody. According to the bottle label, the intended laboratory is "CASK" for Metals/6010B analysis.

I've attached copies of COC No 2027.001300339 and 2027.001.00490 for your reference. Please note that additional samples arrived at TestAmerica Denver, however I've only mentioned the samples/COCs that had discrepancies upon receipt.

Thanks,
ERIC MIDDLEDITCH
Project Management Assistant
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4955 Yarrow Street
Arvada, CO 80002
Tel 303.736.0100 ext. 165
www.testamericainc.com

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the sender immediately. We appreciate your cooperation.
Please consider the environment before printing this e-mail.

**TestAmerica Denver
Condition Upon Receipt Anomaly Report (CUR)**

Lot No: D94040190
 Client: Northgate Tronox
 Affected Samples _____

Date/Time: 8/4/09 0845
 Initiated by: LM
 COC# _____

Client ID	Lab ID	Analyses Requested

CONDITION/ANOMALY/VARIANCE (CHECK ALL THAT APPLY):

<input type="checkbox"/> COOLERS <input type="checkbox"/> Received, No Chain of Custody (COC) <input type="checkbox"/> Not Received but COC(s) Available <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____	<input type="checkbox"/> CUSTODY SEALS (COOLER(S)/CONTAINER(S)) <input type="checkbox"/> None <input type="checkbox"/> Not Intact <input type="checkbox"/> Other: _____
<input type="checkbox"/> TEMPERATURE (greater than 6° C) <input type="checkbox"/> Cooler Temp _____ <input type="checkbox"/> Temperature Blank	<input type="checkbox"/> CHAIN OF CUSTODY (COCs) <input type="checkbox"/> Not relinquished by Client; No date/time Relinq. <input type="checkbox"/> Incomplete Information <input type="checkbox"/> Other: _____
<input type="checkbox"/> CONTAINERS <input type="checkbox"/> Leaking <input type="checkbox"/> Broken <input type="checkbox"/> Extra <input type="checkbox"/> Without Labels <input type="checkbox"/> VOA Vials with Headspace _____ mm <input type="checkbox"/> Other: _____	<input type="checkbox"/> CONTAINER LABELS <input type="checkbox"/> Not the same ID/info as in COC <input type="checkbox"/> Incomplete <input type="checkbox"/> ID COLLECTION <input type="checkbox"/> Time <input type="checkbox"/> Date <input type="checkbox"/> PRESERVATIVE <input type="checkbox"/> Markings/Info smeared or illegible <input type="checkbox"/> Torn <input type="checkbox"/> Other: _____
<input checked="" type="checkbox"/> SAMPLES <input checked="" type="checkbox"/> Samples <u>NOT RECEIVED</u> but listed on COC _____ <input type="checkbox"/> Samples received but <u>NOT LISTED</u> on COC <input type="checkbox"/> Logged based on Label Information <input type="checkbox"/> Logged based on info from other samples on COC <input type="checkbox"/> Logged according to Work Plan <input type="checkbox"/> Logged on HOLD UNTIL FURTHER NOTICE <input type="checkbox"/> Other: _____	<input type="checkbox"/> will be noted on COC Client to send samples with new COC <input type="checkbox"/> Trip Blank received, not on COC, _____ vials received <input type="checkbox"/> Mislabeled as to tests, preservatives, etc. <input type="checkbox"/> Holding time expired <input type="checkbox"/> Improper container used <input type="checkbox"/> Not preserved / Improper preservative used <input type="checkbox"/> Improper pH _____ Lab to preserve sample <input type="checkbox"/> Insufficient quantities for analysis

Comments: Did not receive volume for sample M-50B DISS.

Corrective Action:
 Client Informed: verbally on: _____ By: _____ : In writing on: 8/5/09 By: am
 Sample(s) processed "as is". _____
 Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: Lisa Mully Date: 8/4/09
 Project Management Review: Ein Min Date: 8/5/09

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9H040190 Date/Time Received: 2/4/09 8:45

Company Name & Sampling Site: Northgate - TRONOX

PM to Complete This Section: *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): 2.5 _____

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

TestAmerica Denver
Sample Receiving Checklist

Lot # D9H040190

Login Checks:

N/A Yes No

Initials
J.M.

- 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? 1
- 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
J.M.

- 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).

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9H050230 Date/Time Received: 8/5/09 0845

Company Name & Sampling Site: Northgate - TRONOX

PM to Complete This Section: Yes No Quarantined: Yes No

Quote #: 83046

Special Instructions:

Time Zone:
 • EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): _____

Temperatures (°C): 0.5° _____

N/A Yes No

Initials

SL

- 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 # D9H050230

Login Checks:

Initials

Jm.

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? 1
- 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

CMF

- 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).

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9H050234 Date/Time Received: 8/5/09 0845

Company Name & Sampling Site: Northgate - TRONOX

PM to Complete This Section: *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): 0.5 _____

N/A Yes No

Initials

ALC

- 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 \pm 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 # D9H050234

Login Checks:

Initials

Jm.

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? 1
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

YC

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).

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

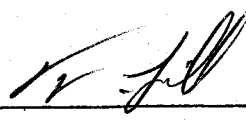
Lot ID: D9H040187

Client: Northgate Environmental

Batch(es) #: 9217132, 9217128

Associated Samples: 1, 2

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

Signature/Date:  8/11/09

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>
D9H040187	1 D	SE	LHG1P1AH	20090811	6020TOTA	9217132	AG081009A	024
D9H040187	1 S	SE	LHG1P1AG	20090811	6020TOTA	9217132	AG081009A	024
D9H040187	1 D	AS	LHG1P1AF	20090811	6020TOTA	9217132	AG081009A	024
D9H040187	1 S	AS	LHG1P1AE	20090811	6020TOTA	9217132	AG081009A	024
D9H040187	1	SE	LHG1P1AC	20090811	6020TOTA	9217132	AG081009A	024
D9H040187	1	AS	LHG1P1AA	20090811	6020TOTA	9217132	AG081009A	024
D9H040187	2 D	SE	LHG1R1AG	20090811	6020DSVD	9217128	AG081009A	024
D9H040187	2 D	AS	LHG1R1AE	20090811	6020DSVD	9217128	AG081009A	024
D9H040187	2 S	AS	LHG1R1AD	20090811	6020DSVD	9217128	AG081009A	024
D9H040187	2 S	SE	LHG1R1AF	20090811	6020DSVD	9217128	AG081009A	024
D9H040187	2	SE	LHG1R1AC	20090811	6020DSVD	9217128	AG081009A	024
D9H040187	2	AS	LHG1R1AA	20090811	6020DSVD	9217128	AG081009A	024

**METALS
PREPARATION LOGS
ICP-MS**



Batch Number: 9217128

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

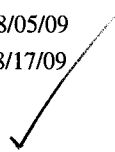
Prepared By:

JRW

Prep Date: 08/05/09

Due Date: 08/17/09

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D9H050000 Water	LHH8K	B	Due Date: SDG:	<u>50 mL</u>
D9H050000 Water	LHH8K	C	Due Date: SDG:	<u>50 mL</u>
D9H040187 Water	LHG1R Dissolved		Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040187 Water	LHG1R Dissolved	S	Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040187 Water	LHG1R Dissolved	D	Due Date: 08/17/09 SDG:	<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
8/10/09*

*✓
✓
8/24/09*

DISSOLVED WATER DIGESTION FOR ICPMS (Prep code MD)

BATCH # 9217128
PREP DATE: 8/5/2009

ALLIQUOTTED BY: KS
DIGESTED BY: JRW

CONSUMABLES USED	
Digestion Cups: Manufacturer:	<u>Environmental Express</u> Lot #: <u>A901LS267</u>
Were samples filtered in the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "yes", then the method blank and the LCS were filtered prior to digestion.	
Analyst(s) Initials: <u> </u>	

STANDARDS USED				
Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-3775-09	6/23/10	100uL	15
2008Cal-2	STD-2637-09	5/1/10	100uL	15

REAGENTS USED			
Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	2

TEMPERATURE CYCLES				
Thermometer ID: <u>3967</u>		Block & Cup #: <u>9/2</u>		
Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO3/HCl	<u>1300</u>	<u>95</u>	<u>1800</u>	<u>95</u>
Samples and QC revolved to:		<u>50</u> mL	Analyst's Initials <u>JRW</u>	

COMMENTS:

I certify that all information above is correct and complete.

Signature: *JRW*

Date: 8/5/09

Batch Number: 9217132

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:

JRW

Prep Date: 08/05/09
Due Date: 08/17/09

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D9H050000 Water	LHH8T	B	Due Date: SDG:	<u>50 mL</u>
D9H050000 Water	LHH8T	C	Due Date: SDG:	<u>50 mL</u>
D9H040187 Water	LHG1P Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040187 Water	LHG1P Total	S	Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040187 Water	LHG1P Total	D	Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040190 Water	LHG21 Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040197 Water	LHG7R Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040202 Water	LHG9J Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>

*not 8/7/09
client deleted.*

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
8/10/09*

*✓
8/11/09*

METALS PREP SHEET
SOP: DEN-IP-0014

TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH # 9217132
PREP DATE: 8/5/2009

ALLIQUOTTED BY: KS
DIGESTED BY: JRW

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-3775-09	6/23/10	100uL	15
2008Cal-2	STD-2637-09	5/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	3

TEMPERATURE CYCLES

Thermometer ID: 4110 Block & Cup #: 3/30

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃	1300	93	1745 + 700 8/5/09 JRW	96
HNO ₃	1730	96	1800	96
HNO ₃				

Samples and QC revolved to: 50 mL Analyst's Initials JRW

COMMENTS:

I certify that all information above is correct and complete.

Signature: [Handwritten Signature]

Date: 8/5/09

**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

Aug-10-2009

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	1,000.0

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026 Volume (ml): 100.00
Date Prep./Opened: 04-01-2009
Date Expires(1): 12-01-2009 (1 Year)
pipette: Met 21

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Se	1,000.0	1.0000

STD3611-09, ICP-MS 1ppm Sn/Zn

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 06-16-2009

Date Expires(1): 10-01-2009 (1 Year)

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
1000 Zn	10.000	1.0000

Parent Std No.: STD3610-09, ICP-MS 10 ppm Sn

Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	10.000	1.0000

STD4601-09, ICP-MS (024) INT STD BRC

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 250.00

Date Prep./Opened: 08-03-2009

Date Expires(1): 11-10-2009 (1 Year)

Date Expires(2): 12-01-2009 (None)

Date Verified: 12-31--4714 by - (Verification ID: 0)
pipettes: Met 20

Parent Std No.: STD1469-09, Germanium Stock

Aliquot Amount (ml): 0.7500

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	3,000.0

Parent Std No.: STD1972-09, Lithium 6 Stock

Aliquot Amount (ml): 1.0000

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	4,000.0

Parent Std No.: STD1973-09, Indium Stock

Aliquot Amount (ml): 0.2500

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	1,000.0

Parent Std No.: STD6317-08, Scandium Stock

Aliquot Amount (ml): 0.5000

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	2,000.0

Parent Std No.: STD6318-08, Holmium Stock Aliquot Amount (ml): 0.2500
 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	1,000.0

STD4712-09, ICP-MS BLANK

Solvent: Water
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 09-10-2009 (1 Month)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Analyst: DIAZL
 Volume (ml): 1,000.0

Parent Std No.: STD4711-09, NITRIC ACID Aliquot Amount (ml): 50.000

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
HNO3	100.00	5.0000

STD4713-09, ICP-MS 10 ppm Sn

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 03-01-2010 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 21 and Met 8

Analyst: DIAZL
 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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	10.000

STD4714-09, ICP-MS 100 ppb cal

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 08-11-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20

Analyst: DIAZL
 Volume (ml): 50.000

Parent Std No.: STD3773-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
------------------	----------------------------	--------------------------

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.: STD3862-09, Iron Stock

Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	5,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn

Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4715-09, ICP-MS CCV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 100.00

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ag	20.000	50.000
Al	20.000	50.000
As	20.000	50.000
Ba	20.000	50.000
Be	20.000	50.000
Cd	20.000	50.000
Co	20.000	50.000
Cr	20.000	50.000
Cu	20.000	50.000
Mn	20.000	50.000
Ni	20.000	50.000

Pb	20.000	50.000
Se	20.000	50.000
Th	20.000	50.000
Tl	20.000	50.000
U	20.000	50.000
V	20.000	50.000
Zn	20.000	50.000

Parent Std No.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	50.000
Sb	20.000	50.000

Parent Std No.: STD3862-09, Iron Stock Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	2,500.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	50.000

STD4716-09, ICP-MS RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 10.000

Parent Std No.: STD3611-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1.0000	0.0090
1000 Zn	1.0000	0.0090

Parent Std No.: STD4714-09, ICP-MS 100 ppb cal Aliquot Amount (ml): 0.1000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 08-11-2009

<u>Component</u>	<u>Initial Conc (ug/L)</u>	<u>Final Conc (mg/L)</u>
Mo	100.00	0.0010
Sb	100.00	0.0010
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
Fe	5,000.0	0.0500
Sn	100.00	0.0010

STD4717-09, ICP-MS AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (2 Days)
 pipettes: Met 20 and Met 8

Volume (ml): 10.000

Parent Std No.: STD4716-09, ICP-MS RL STD

Aliquot Amount (ml): 2.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	0.0090	0.0018
1000 Zn	0.0090	0.0018
Mo	0.0010	0.0002
Sb	0.0010	0.0002
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
Fe	0.0500	0.0100
Sn	0.0010	0.0002

STD4718-09, ICP-MS ICSA

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 09-10-2009 (1 Month)
 Date Expires(2): 08-01-2010 (None)
 pipettes: Met 8

Volume (ml): 50.000

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 5.0000
 Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

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

STD4719-09, ICP-MS ICSAB

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (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.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.0500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/L)</u>
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.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4720-09, ICPMS LR STD 1000 ppb

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20 and Met 8

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	1,000.0
Sb	20.000	1,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	1,000.0

STD4721-09, ICPMS ICV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/L)</u>
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

STD4722-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 50.000

Parent Std No.: STD1853-09, 1 mg/l Se

Aliquot Amount (ml): 0.1000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Se	1.0000	0.0020

STD4723-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 05-01-2010 (None)
 pipettes: Met 20

Volume (ml): 100.00

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	0.2000	2.0000
Sb	0.2000	2.0000
Sn	1.0000	10.000

Parent Std No.: STD3108-09, ICP-MS BRC LLCCV 1

Aliquot Amount (ml): 1.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Nb	4.0000	40.000
Pd	0.1000	1.0000
Pt	0.1000	1.0000
W	0.5000	5.0000

Reviewed By:

LRD 08/10/2009

File
AG081009A

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
3	Cal Blank				1.0 08/10/09 18:06		<input type="checkbox"/>
4	100 ppb				1.0 08/10/09 18:09		<input type="checkbox"/>
5	ICV				1.0 08/10/09 18:12		<input type="checkbox"/>
6	RLIV				1.0 08/10/09 18:15		<input type="checkbox"/>
7	ICB				1.0 08/10/09 18:17		<input type="checkbox"/>
8	RL STD				1.0 08/10/09 18:20		<input type="checkbox"/>
9	AFCEE RL				1.0 08/10/09 18:23		<input type="checkbox"/>
10	ALTSe				1.0 08/10/09 18:26		<input type="checkbox"/>
11	ICSA				1.0 08/10/09 18:28		<input type="checkbox"/>
12	ICSAB				1.0 08/10/09 18:31		<input type="checkbox"/>
13	RINSE				1.0 08/10/09 18:34		<input type="checkbox"/>
14	LR				1.0 08/10/09 18:36		<input type="checkbox"/>
15	RINSE				1.0 08/10/09 18:39		<input type="checkbox"/>
16	CCV				1.0 08/10/09 18:42		<input type="checkbox"/>
17	CCB				1.0 08/10/09 18:45		<input type="checkbox"/>
18	RLCV				1.0 08/10/09 18:47		<input type="checkbox"/>
19	LG9KP	D9G300166-1	9215482	04	1.0 08/10/09 18:50	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
20	CCV				1.0 08/10/09 18:53		<input type="checkbox"/>
21	CCB				1.0 08/10/09 18:55		<input type="checkbox"/>
22	RLCV				1.0 08/10/09 18:58		<input type="checkbox"/>
23	LG8F7	D9G290252-1	9212201	46	1.0 08/10/09 19:01		<input type="checkbox"/>
24	LG8F7P5	D9G290252	9212201		5.0 08/10/09 19:04		<input type="checkbox"/>
25	LG8F7Z	D9G290252-1	9212201		1.0 08/10/09 19:06		<input type="checkbox"/>
26	LG8F7S	D9G290252-1	9212201	46	1.0 08/10/09 19:09		<input type="checkbox"/>
27	LG8F7D	D9G290252-1	9212201	46	1.0 08/10/09 19:12		<input type="checkbox"/>
28	CCV				1.0 08/10/09 19:15		<input type="checkbox"/>
29	CCB				1.0 08/10/09 19:17		<input type="checkbox"/>
30	RLCV				1.0 08/10/09 19:20		<input type="checkbox"/>
31	LHFL0B	D9H030000	9215265	46	1.0 08/10/09 19:23		<input type="checkbox"/>
32	LHFL0C	D9H030000	9215265	46	1.0 08/10/09 19:26		<input type="checkbox"/>
33	LHA17	D9G300337-1	9215265	46	1.0 08/10/09 19:28	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
34	CCV				1.0 08/10/09 19:31		<input type="checkbox"/>
35	CCB				1.0 08/10/09 19:34		<input type="checkbox"/>
36	RLCV				1.0 08/10/09 19:37		<input type="checkbox"/>
37	LG86WB	D9G300000	9211083	04	1.0 08/10/09 19:39		<input type="checkbox"/>
38	LG86WC	D9G300000	9211083	04	1.0 08/10/09 19:42		<input type="checkbox"/>
39	LG8K3	D9G290261-1	9211083	04	1.0 08/10/09 19:45		<input type="checkbox"/>
40	LG8LE	D9G290261-3	9211083	04	1.0 08/10/09 19:48		<input type="checkbox"/>
41	LG8LF	D9G290261-4	9211083	04	1.0 08/10/09 19:50		<input type="checkbox"/>
42	LG8LH	D9G290261-5	9211083	04	1.0 08/10/09 19:53		<input type="checkbox"/>
43	LG8LJ	D9G290261-6	9211083	04	1.0 08/10/09 19:56		<input type="checkbox"/>
44	LG8LK	D9G290261-7	9211083	04	1.0 08/10/09 19:59		<input type="checkbox"/>
45	CCV				1.0 08/10/09 20:01		<input type="checkbox"/>
46	CCB				1.0 08/10/09 20:04		<input type="checkbox"/>
47	RLCV				1.0 08/10/09 20:07		<input type="checkbox"/>
48	LG8LKP5	D9G290261	9211083		5.0 08/10/09 20:10		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	LG8LKZ	D9G290261-7	9211083		1.0	08/10/09 20:12	<input type="checkbox"/>
50	LG8LKS	D9G290261-7	9211083	04	1.0	08/10/09 20:15	<input type="checkbox"/>
51	LG8LKD	D9G290261-7	9211083	04	1.0	08/10/09 20:18	<input type="checkbox"/>
52	LG8LL	D9G290261-8	9211083	04	1.0	08/10/09 20:20	<input type="checkbox"/>
53	LG8LM	D9G290261-9	9211083	04	1.0	08/10/09 20:23	<input type="checkbox"/>
54	LG8LN	D9G290261-10	9211083	04	1.0	08/10/09 20:26	<input type="checkbox"/>
55	LG8LP	D9G290261-11	9211083	04	1.0	08/10/09 20:29	<input type="checkbox"/>
56	CCV				1.0	08/10/09 20:32	<input type="checkbox"/>
57	CCB				1.0	08/10/09 20:34	<input type="checkbox"/>
58	RLCV				1.0	08/10/09 20:37	<input type="checkbox"/>
59	LG7LLB	D9G290000	9210208	46	1.0	08/10/09 20:40	<input type="checkbox"/>
60	LG7LLC	D9G290000	9210208	46	1.0	08/10/09 20:42	<input type="checkbox"/>
61	LG3FP	D9G240333-2	9210209	U1	1.0	08/10/09 20:45	<input type="checkbox"/>
62	LG3FR	D9G240333-3	9210209	U1	1.0	08/10/09 20:48	<input type="checkbox"/>
63	LG3FRP5	D9G240333	9210209		5.0	08/10/09 20:51	<input type="checkbox"/>
64	LG3FRZ	D9G240333-3	9210209		1.0	08/10/09 20:53	<input type="checkbox"/>
65	LG3FRS	D9G240333-3	9210209	U1	1.0	08/10/09 20:56	<input type="checkbox"/>
66	CCV				1.0	08/10/09 20:59	<input type="checkbox"/>
67	CCB				1.0	08/10/09 21:01	<input type="checkbox"/>
68	RLCV				1.0	08/10/09 21:04	<input type="checkbox"/>
69	LG3FRD	D9G240333-3	9210209	U1	1.0	08/10/09 21:07	<input type="checkbox"/>
70	LG3FV	D9G240333-4	9210208	U1	1.0	08/10/09 21:09	<input type="checkbox"/>
71	LG3FX	D9G240333-5	9210208	U1	1.0	08/10/09 21:12	<input type="checkbox"/>
72	LG6XM	D9G240333-12	9210209		1.0	08/10/09 21:15	<input type="checkbox"/>
73	LG6XV	D9G240333-13	9210209	U1	1.0	08/10/09 21:18	<input type="checkbox"/>
74	LG6XW	D9G240333-14	9210208	U1	1.0	08/10/09 21:20	<input type="checkbox"/>
75	LG6X0	D9G240333-15	9210208	U1	1.0	08/10/09 21:23	<input type="checkbox"/>
76	CCV				1.0	08/10/09 21:26	<input type="checkbox"/>
77	CCB				1.0	08/10/09 21:28	<input type="checkbox"/>
78	RLCV				1.0	08/10/09 21:31	<input type="checkbox"/>
79	RINSE				1.0	08/10/09 21:34	<input type="checkbox"/>
80	RINSE				1.0	08/10/09 21:37	<input type="checkbox"/>
81	RINSE				1.0	08/10/09 21:39	<input type="checkbox"/>
82	RINSE				1.0	08/10/09 21:42	<input type="checkbox"/>
83	RINSE				1.0	08/10/09 21:45	<input type="checkbox"/>
84	RINSE				1.0	08/10/09 21:48	<input type="checkbox"/>
85	Cal Blank				1.0	08/10/09 21:50	<input type="checkbox"/>
86	Cal Blank				1.0	08/10/09 21:53	<input type="checkbox"/>
87	100 ppb				1.0	08/10/09 21:56	<input type="checkbox"/>
88	CCV				1.0	08/10/09 21:58	<input type="checkbox"/>
89	CCB				1.0	08/10/09 22:01	<input type="checkbox"/>
90	RLCV				1.0	08/10/09 22:04	<input type="checkbox"/>
91	ICSA				1.0	08/10/09 22:07	<input type="checkbox"/>
92	ICSAB				1.0	08/10/09 22:09	<input type="checkbox"/>
93	WASH				1.0	08/10/09 22:12	<input type="checkbox"/>
94	CCV				1.0	08/10/09 22:15	<input type="checkbox"/>

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
95	CCB				1.0	08/10/09 22:18	<input type="checkbox"/>
96	RLCV				1.0	08/10/09 22:20	<input type="checkbox"/>
97	LHFD8B	D9H030000	9215165	MS	1.0	08/10/09 22:23	<input type="checkbox"/>
98	LHFD8C	D9H030000	9215165	MS	1.0	08/10/09 22:26	<input type="checkbox"/>
99	LHEPK	D9H010152-2	9215165	MS	1.0	08/10/09 22:29	<input type="checkbox"/>
100	LHEPKP5	D9H010152	9215165		5.0	08/10/09 22:31	<input type="checkbox"/>
101	LHEPKZ	D9H010152-2	9215165		1.0	08/10/09 22:34	<input type="checkbox"/>
102	LHEPL	D9H010152-3	9215165	MS	1.0	08/10/09 22:37	<input type="checkbox"/>
103	LHEPM	D9H010152-4	9215165	MS	1.0	08/10/09 22:39	<input type="checkbox"/>
104	CCV				1.0	08/10/09 22:42	<input type="checkbox"/>
105	CCB				1.0	08/10/09 22:45	<input type="checkbox"/>
106	RLCV				1.0	08/10/09 22:48	<input type="checkbox"/>
107	LHH8KBF	D9H050000	9217128	MD	1.0	08/10/09 22:51	<input type="checkbox"/>
108	LHH8KCF	D9H050000	9217128	MD	1.0	08/10/09 22:53	<input type="checkbox"/>
109	LHG1RF	D9H040187-2	9217128	MD	1.0	08/10/09 22:56	<input type="checkbox"/>
110	LHG1RP5F	D9H040187	9217128		5.0	08/10/09 22:59	<input type="checkbox"/>
111	LHG1RZF	D9H040187-2	9217128		1.0	08/10/09 23:02	<input type="checkbox"/>
112	LHG1RSF	D9H040187-2	9217128	MD	1.0	08/10/09 23:04	<input type="checkbox"/>
113	LHG1RDF	D9H040187-2	9217128	MD	1.0	08/10/09 23:07	<input type="checkbox"/>
114	CCV				1.0	08/10/09 23:10	<input type="checkbox"/>
115	CCB				1.0	08/10/09 23:13	<input type="checkbox"/>
116	RLCV				1.0	08/10/09 23:15	<input type="checkbox"/>
117	LHH8TB	D9H050000	9217132	MS	1.0	08/10/09 23:18	<input type="checkbox"/>
118	LHH8TC	D9H050000	9217132	MS	1.0	08/10/09 23:21	<input type="checkbox"/>
119	LHG1P 5X	D9H040187-1	9217132	MS	5.0	08/10/09 23:24	<input type="checkbox"/>
120	LHG1PP25	D9H040187	9217132		25.0	08/10/09 23:26	<input type="checkbox"/>
121	RINSE				1.0	08/10/09 23:32	<input type="checkbox"/>
122	RINSE				1.0	08/10/09 23:34	<input type="checkbox"/>
123	RINSE				1.0	08/10/09 23:37	<input type="checkbox"/>
124	RINSE				1.0	08/10/09 23:40	<input type="checkbox"/>
125	RINSE				1.0	08/10/09 23:43	<input type="checkbox"/>
126	RINSE				1.0	08/10/09 23:45	<input type="checkbox"/>
127	Cal Blank				1.0	08/10/09 23:48	<input type="checkbox"/>
128	Cal Blank				1.0	08/10/09 23:51	<input type="checkbox"/>
129	100 ppb				1.0	08/10/09 23:54	<input type="checkbox"/>
130	CCV				1.0	08/10/09 23:56	<input type="checkbox"/>
131	CCB				1.0	08/10/09 23:59	<input type="checkbox"/>
132	RLCV				1.0	08/11/09 00:02	<input type="checkbox"/>
133	LHH8KBF	D9H050000	9217128	MD	1.0	08/11/09 00:05	<input type="checkbox"/>
134	LHH8KCF	D9H050000	9217128	MD	1.0	08/11/09 00:07	<input type="checkbox"/>
135	LHG1RF 10X	D9H040187-2	9217128	MD	10.0	08/11/09 00:10	<input type="checkbox"/>
136	LHG1RP50F	D9H040187	9217128		50.0	08/11/09 00:13	<input type="checkbox"/>
137	LHG1RZF	D9H040187-2	9217128		1.0	08/11/09 00:16	<input type="checkbox"/>
138	LHG1RSF 1C	D9H040187-2	9217128	MD	10.0	08/11/09 00:18	<input type="checkbox"/>
139	LHG1RDF 1C	D9H040187-2	9217128	MD	10.0	08/11/09 00:21	<input type="checkbox"/>
140	CCV				1.0	08/11/09 00:24	<input type="checkbox"/>

Cal Blank did not use.

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
141	CCB				1.0	08/11/09 00:27	<input type="checkbox"/>
142	RLCV				1.0	08/11/09 00:29	<input type="checkbox"/>
143	LHH8TB	D9H050000	9217132	MS	1.0	08/11/09 00:32	<input type="checkbox"/>
144	LHH8TC	D9H050000	9217132	MS	1.0	08/11/09 00:35	<input type="checkbox"/>
145	LHG1P 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:38	<input type="checkbox"/>
146	LHG1PP50	D9H040187	9217132		50.0	08/11/09 00:41	<input type="checkbox"/>
147	LHG1PZ	D9H040187-1	9217132		1.0	08/11/09 00:43	<input type="checkbox"/>
148	LHG1PS 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:46	<input type="checkbox"/>
149	LHG1PD 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:49	<input type="checkbox"/>
150	LHG21 20X	D9H040190-1	9217132	MS	20.0	08/11/09 00:51	<input type="checkbox"/>
151	CCV				1.0	08/11/09 00:54	<input type="checkbox"/>
152	CCB				1.0	08/11/09 00:57	<input type="checkbox"/>
153	RLCV				1.0	08/11/09 01:00	<input type="checkbox"/>
154	LHQK3B	D9H060000	9218437	MS	1.0	08/11/09 01:03	<input type="checkbox"/>
155	LHQK3C	D9H060000	9218437	MS	1.0	08/11/09 01:05	<input type="checkbox"/>
156	LHJ5J	D9H050230-1	9218437	MS	1.0	08/11/09 01:08	<input type="checkbox"/>
157	LHJ5JP5	D9H050230	9218437		5.0	08/11/09 01:11	<input type="checkbox"/>
158	LHJ5JZ	D9H050230-1	9218437		1.0	08/11/09 01:14	<input type="checkbox"/>
159	LHJ5JS	D9H050230-1	9218437	MS	1.0	08/11/09 01:16	<input type="checkbox"/>
160	LHJ5JD	D9H050230-1	9218437	MS	1.0	08/11/09 01:19	<input type="checkbox"/>
161	LHJ51	D9H050234-1	9218437	MS	1.0	08/11/09 01:22	<input type="checkbox"/>
162	CCV				1.0	08/11/09 01:25	<input type="checkbox"/>
163	CCB				1.0	08/11/09 01:27	<input type="checkbox"/>
164	RLCV				1.0	08/11/09 01:30	<input type="checkbox"/>
165	RINSE				1.0	08/11/09 01:33	<input type="checkbox"/>
166	RINSE				1.0	08/11/09 01:35	<input type="checkbox"/>
167	RINSE				1.0	08/11/09 01:38	<input type="checkbox"/>
168	RINSE				1.0	08/11/09 01:41	<input type="checkbox"/>
169	RINSE				1.0	08/11/09 01:44	<input type="checkbox"/>
170	RINSE				1.0	08/11/09 01:46	<input type="checkbox"/>
171	Cal Blank				1.0	08/11/09 01:49	<input type="checkbox"/>
172	Cal Blank				1.0	08/11/09 01:52	<input type="checkbox"/>
173	100 ppb				1.0	08/11/09 01:55	<input type="checkbox"/>
174	CCV				1.0	08/11/09 01:57	<input type="checkbox"/>
175	CCB				1.0	08/11/09 02:00	<input type="checkbox"/>
176	RLCV				1.0	08/11/09 02:03	<input type="checkbox"/>
177	LHT80BF	D9H080000	9220058	MD	1.0	08/11/09 02:06	<input type="checkbox"/>
178	LHT80CF	D9H080000	9220058	MD	1.0	08/11/09 02:08	<input type="checkbox"/>
179	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:11	<input type="checkbox"/>
180	LHQGCP5F	D9H060361	9220058		5.0	08/11/09 02:14	<input type="checkbox"/>
181	LHQGCZF	D9H060361-2	9220058		1.0	08/11/09 02:17	<input type="checkbox"/>
182	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:19	<input type="checkbox"/>
183	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:22	<input type="checkbox"/>
184	CCV				1.0	08/11/09 02:25	<input type="checkbox"/>
185	CCB				1.0	08/11/09 02:28	<input type="checkbox"/>
186	RLCV				1.0	08/11/09 02:30	<input type="checkbox"/>

TEL 8/11/09

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
187	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:33	<input type="checkbox"/>
188	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:36	<input type="checkbox"/>
189	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:39	<input type="checkbox"/>
190	CCV				1.0	08/11/09 02:41	<input type="checkbox"/>
191	CCB				1.0	08/11/09 02:44	<input type="checkbox"/>
192	RLCV				1.0	08/11/09 02:47	<input type="checkbox"/>
193	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:50	<input type="checkbox"/>
194	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:52	<input type="checkbox"/>
195	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:55	<input type="checkbox"/>
196	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:58	<input type="checkbox"/>
197	CCV				1.0	08/11/09 03:01	<input type="checkbox"/>
198	CCB				1.0	08/11/09 03:04	<input type="checkbox"/>
199	RLCV				1.0	08/11/09 03:06	<input type="checkbox"/>
200	LHLPQ	D9H060174-1	9220029	MS	1.0	08/11/09 03:09	<input type="checkbox"/>
201	LHLP9	D9H060174-2	9220029	MS	1.0	08/11/09 03:12	<input type="checkbox"/>
202	LHLQF	D9H060174-3	9220029	MS	1.0	08/11/09 03:15	<input type="checkbox"/>
203	LHLQG	D9H060174-4	9220029	MS	1.0	08/11/09 03:17	<input type="checkbox"/>
204	LHLQH	D9H060174-5	9220029	MS	1.0	08/11/09 03:20	<input type="checkbox"/>
205	LHLQJ	D9H060174-6	9220029	MS	1.0	08/11/09 03:23	<input type="checkbox"/>
206	CCV				1.0	08/11/09 03:26	<input type="checkbox"/>
207	CCB				1.0	08/11/09 03:29	<input type="checkbox"/>
208	RLCV				1.0	08/11/09 03:31	<input type="checkbox"/>
209	LHREN	D9H070161-1	9220029	MS	1.0	08/11/09 03:34	<input type="checkbox"/>
210	LHREN5	D9H070161	9220029		5.0	08/11/09 03:37	<input type="checkbox"/>
211	LHRENT	D9H070161-1	9220029		1.0	08/11/09 03:40	<input type="checkbox"/>
212	LHRENS	D9H070161-1	9220029	MS	1.0	08/11/09 03:42	<input type="checkbox"/>
213	LHREND	D9H070161-1	9220029	MS	1.0	08/11/09 03:45	<input type="checkbox"/>
214	LHRFD	D9H070161-2	9220029	MS	1.0	08/11/09 03:48	<input type="checkbox"/>
215	LHRFF	D9H070161-3	9220029	MS	1.0	08/11/09 03:51	<input type="checkbox"/>
216	LHRGP	D9H070161-4	9220029	MS	1.0	08/11/09 03:53	<input type="checkbox"/>
217	CCV				1.0	08/11/09 03:56	<input type="checkbox"/>
218	CCB				1.0	08/11/09 03:59	<input type="checkbox"/>
219	RLCV				1.0	08/11/09 04:02	<input type="checkbox"/>
220	LHRGR	D9H070161-5	9220029	MS	1.0	08/11/09 04:05	<input type="checkbox"/>
221	LHRGV	D9H070161-6	9220029	MS	1.0	08/11/09 04:07	<input type="checkbox"/>
222	LHRGW	D9H070161-7	9220029	MS	1.0	08/11/09 04:10	<input type="checkbox"/>
223	LHRGX	D9H070161-8	9220029	MS	1.0	08/11/09 04:13	<input type="checkbox"/>
224	LHRG1	D9H070161-9	9220029	MS	1.0	08/11/09 04:16	<input type="checkbox"/>
225	LHRG2	D9H070161-10	9220029	MS	1.0	08/11/09 04:19	<input type="checkbox"/>
226	LHRG6	D9H070161-11	9220029	MS	1.0	08/11/09 04:21	<input type="checkbox"/>
227	CCV				1.0	08/11/09 04:24	<input type="checkbox"/>
228	CCB				1.0	08/11/09 04:27	<input type="checkbox"/>
229	RLCV				1.0	08/11/09 04:30	<input type="checkbox"/>
230	RINSE				1.0	08/11/09 04:32	<input type="checkbox"/>
231	RINSE				1.0	08/11/09 04:35	<input type="checkbox"/>
232	RINSE				1.0	08/11/09 04:38	<input type="checkbox"/>

For confirmation only. TEL 8/11/09

TEL 8/11/09 Did not use.

TEL 8/11/09

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
233	RINSE			1.0	08/11/09 04:41		<input type="checkbox"/>
234	RINSE			1.0	08/11/09 04:43		<input type="checkbox"/>
235	RINSE			1.0	08/11/09 04:46		<input type="checkbox"/>
236	Cal Blank			1.0	08/11/09 04:49	<i>8/11/09</i>	<input type="checkbox"/>
237	Cal Blank			1.0	08/11/09 04:52		<input type="checkbox"/>
238	100 ppb			1.0	08/11/09 04:54		<input type="checkbox"/>
239	CCV			1.0	08/11/09 04:57		<input type="checkbox"/>
240	CCB			1.0	08/11/09 05:00		<input type="checkbox"/>
241	RLCV			1.0	08/11/09 05:03		<input type="checkbox"/>
242	LHT3RBF	D9H080000	9220042	MD	1.0	08/11/09 05:05	<input type="checkbox"/>
243	LHT3RCF	D9H080000	9220042	MD	1.0	08/11/09 05:08	<input type="checkbox"/>
244	LHJ0JF	D9H050209-1	9220042	MD	1.0	08/11/09 05:11	<input type="checkbox"/>
245	LHJ02F	D9H050209-2	9220042	MD	1.0	08/11/09 05:14	<input type="checkbox"/>
246	LHJ02P5F	D9H050209	9220042		5.0	08/11/09 05:17	<input type="checkbox"/>
247	LHJ02ZF	D9H050209-2	9220042		1.0	08/11/09 05:19	<input type="checkbox"/>
248	LHJ02SF	D9H050209-2	9220042	MD	1.0	08/11/09 05:22	<input type="checkbox"/>
249	LHJ02DF	D9H050209-2	9220042	MD	1.0	08/11/09 05:25	<input type="checkbox"/>
250	LHKEWF	D9H050209-4	9220042	MD	1.0	08/11/09 05:28	<input type="checkbox"/>
251	CCV			1.0	08/11/09 05:30		<input type="checkbox"/>
252	CCB			1.0	08/11/09 05:33		<input type="checkbox"/>
253	RLCV			1.0	08/11/09 05:36		<input type="checkbox"/>
254	LHT4NB	D9H080000	9220047	MS	1.0	08/11/09 05:39	<input type="checkbox"/>
255	LHT4NC	D9H080000	9220047	MS	1.0	08/11/09 05:42	<input type="checkbox"/>
256	LHJ08	D9H050209-3	9220047	MS	1.0	08/11/09 05:44	<input type="checkbox"/>
257	LHKE1	D9H050209-5	9220047	MS	1.0	08/11/09 05:47	<input type="checkbox"/>
258	LHKE1P5	D9H050209	9220047		5.0	08/11/09 05:50	<input type="checkbox"/>
259	LHKE1Z	D9H050209-5	9220047		1.0	08/11/09 05:53	<input type="checkbox"/>
260	LHKE1S	D9H050209-5	9220047	MS	1.0	08/11/09 05:55	<input type="checkbox"/>
261	LHKE1D	D9H050209-5	9220047	MS	1.0	08/11/09 05:58	<input type="checkbox"/>
262	CCV			1.0	08/11/09 06:01		<input type="checkbox"/>
263	CCB			1.0	08/11/09 06:04		<input type="checkbox"/>
264	RLCV			1.0	08/11/09 06:06		<input type="checkbox"/>
265	LHT9RB	D9H080000	9220064	04	1.0	08/11/09 06:09	<input type="checkbox"/>
266	LHT9RC	D9H080000	9220064	04	1.0	08/11/09 06:12	<input type="checkbox"/>
267	LHJGD	D9H050137-5	9220064	04	1.0	08/11/09 06:15	<input type="checkbox"/>
268	LHJGDP5	D9H050137	9220064		5.0	08/11/09 06:18	<input type="checkbox"/>
269	LHJGDZ	D9H050137-5	9220064		1.0	08/11/09 06:20	<input type="checkbox"/>
270	LHJGDS	D9H050137-5	9220064	04	1.0	08/11/09 06:23	<input type="checkbox"/>
271	LHJGDD	D9H050137-5	9220064	04	1.0	08/11/09 06:26	<input type="checkbox"/>
272	LHR5A	D9H070252-1	9220064	04	1.0	08/11/09 06:29	<input type="checkbox"/>
273	CCV			1.0	08/11/09 06:31		<input type="checkbox"/>
274	CCB			1.0	08/11/09 06:34		<input type="checkbox"/>
275	RLCV			1.0	08/11/09 06:37		<input type="checkbox"/>
276	LHT0GB	D9H080000	9220033	MS	1.0	08/11/09 06:40	<input type="checkbox"/>
277	LHT0GC	D9H080000	9220033	MS	1.0	08/11/09 06:43	<input type="checkbox"/>
278	LHHR	D9H060214-1	9220033	MS	1.0	08/11/09 06:45	<input type="checkbox"/>

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

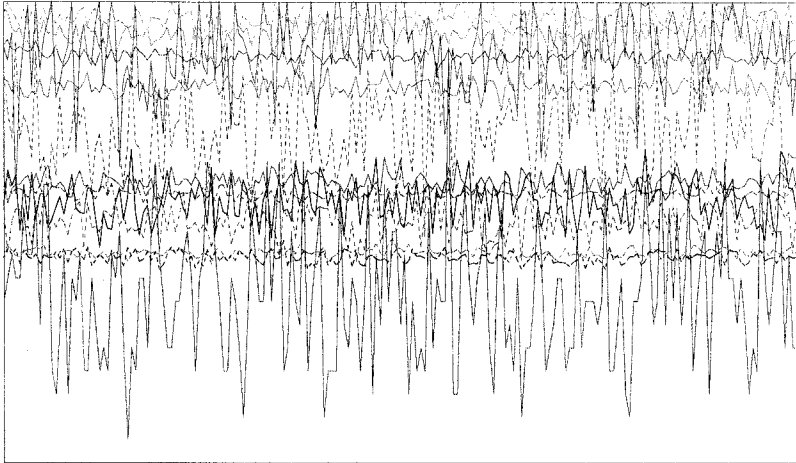
Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
279	LHMLH	D9H060214-2	9220033	MS	1.0	08/11/09 06:48	<input type="checkbox"/>
280	LHMN6	D9H060214-3	9220033	MS	1.0	08/11/09 06:51	<input type="checkbox"/>
281	LHTDQ	D9H070289-1	9220033	MS	1.0	08/11/09 06:54	<input type="checkbox"/>
282	LHTDW	D9H070289-2	9220033	MS	1.0	08/11/09 06:57	<input type="checkbox"/>
283	CCV				1.0	08/11/09 06:59	<input type="checkbox"/>
284	CCB				1.0	08/11/09 07:02	<input type="checkbox"/>
285	RLCV				1.0	08/11/09 07:05	<input type="checkbox"/>
286	LHTD0	D9H070289-3	9220033	MS	1.0	08/11/09 07:08	<input type="checkbox"/>
287	LHTD0P5	D9H070289	9220033		5.0	08/11/09 07:10	<input type="checkbox"/>
288	LHTD0Z	D9H070289-3	9220033		1.0	08/11/09 07:13	<input type="checkbox"/>
289	LHTD0S	D9H070289-3	9220033	MS	1.0	08/11/09 07:16	<input type="checkbox"/>
290	LHTD0D	D9H070289-3	9220033	MS	1.0	08/11/09 07:19	<input type="checkbox"/>
291	LHTD1	D9H070289-4	9220033	MS	1.0	08/11/09 07:22	<input type="checkbox"/>
292	CCV				1.0	08/11/09 07:24	<input type="checkbox"/>
293	CCB				1.0	08/11/09 07:27	<input type="checkbox"/>
294	RLCV				1.0	08/11/09 07:30	<input type="checkbox"/>

Ref 8/11/09 Did not use

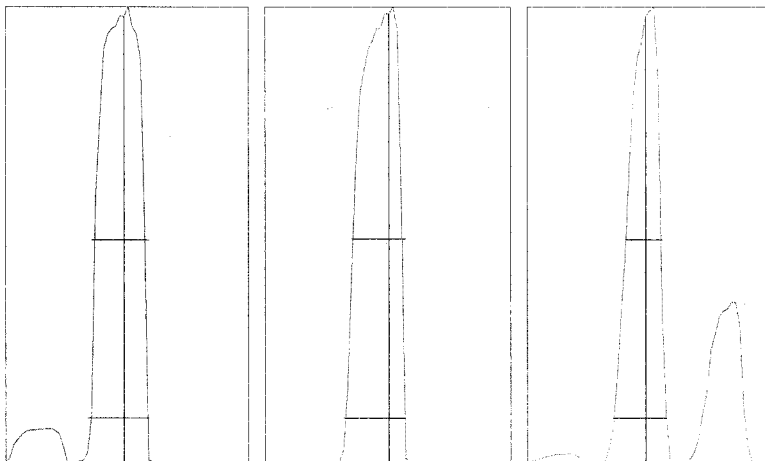
Tune Report

Tune File : NORM.U
 Comment :



Integration Time: 0.1000 sec
 Sampling Period: 1.5300 sec
 n: 200
 Oxide: 156/140 1.280%
 Doubly Charged: 70/140 1.306%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1277.0	1212.6	3.29	2.10
7	20,000	16661.0	16295.0	2.25	1.60
59	20,000	18792.0	18605.1	2.34	0.90
63	100	91.0	90.0	11.00	1.10
70	500	302.0	283.2	7.74	1.50
75	20	2.0	7.2	40.14	1.20
78	500	273.0	260.8	6.33	1.50
89	50,000	22278.0	22756.3	1.97	2.30
115	20,000	19390.0	19268.7	1.88	2.60
118	100	77.0	72.2	12.54	2.60
137	5,000	2253.0	2223.9	2.70	2.80
205	20,000	11452.0	11648.2	1.84	3.60
238	20,000	17180.0	17622.9	1.55	4.60
156/140	2	1.240%	1.301%	7.97	
70/140	2	1.528%	1.441%	7.98	



m/z:	7	89	205
Height:	16,281	23,001	11,900
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.65	0.45
W-10%:	0.7500	0.7500	0.6500

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
Smpl Depth : 7.5 mm
Torch-H : -0.8 mm
Torch-V : -0.3 mm
Carrier Gas : 0.83 L/min
Makeup Gas : 0.23 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 : -34 V
Omega Lens-ce : 1 V
Cell Entrance : -30 V
QP Focus : 7 V
Cell Exit : -30 V

===Q-Pole Parameters===

AMU Gain : 133
AMU Offset : 123
Axis Gain : 1.0006
Axis Offset : -0.03
QP Bias : -1 V

===Detector Parameters===

Discriminator : 8 mV
Analog HV : 1720 V
Pulse HV : 1390 V

===Octopole Parameters===

OctP RF : 180 V
OctP Bias : -18 V

===Reaction Cell===

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

P/A Factor Tuning Report

Acquired: Aug 10 2009 05:25 pm

Mass[amu]	Element	P/A Factor
6	Li	0.059224
7	(Li)	Sensitivity too low
9	Be	0.065939
45	Sc	0.077958
51	V	0.079670
52	Cr	0.081495
53	(Cr)	Sensitivity too low
55	Mn	0.082881
59	Co	0.084650
60	Ni	0.085888
63	Cu	0.087500
66	Zn	0.087183
72	Ge	0.086826
75	As	0.086085
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
95	Mo	0.087962
98	(Mo)	0.087439
99	(Mo)	0.088211
106	(Cd)	0.090424
107	Ag	Sensitivity too low
108	(Cd)	0.090963
111	Cd	0.090902
114	Cd	0.090659
115	In	0.089830
118	Sn	0.090118
121	Sb	0.090217
137	Ba	Sensitivity too low
165	Ho	Sensitivity too low
205	Tl	0.095902
206	(Pb)	0.095184
207	(Pb)	0.095217
208	Pb	0.094502
232	Th	0.093768
238	U	0.093910

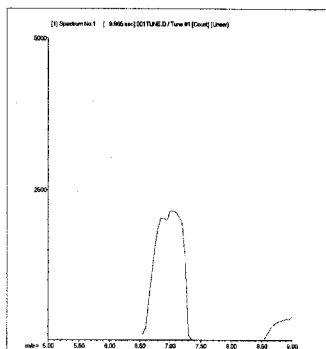
===Detector Parameters===

Discriminator: 8.0 mV
Analog HV: 1720 V
Pulse HV: 1390 V

200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\001TUNE.D
 Date Acquired: Aug 10 2009 06:01 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

Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	23394	23373	23283	23262	23454	23596	0.58	5.00	
9 Be	4040	4033	4013	4046	4048	4060	0.44	5.00	
24 Mg	27733	27886	27740	27593	28101	27346	1.03	5.00	
59 Co	126100	128137	127946	123341	126160	124916	1.61	5.00	
115 In	1508105	1512323	1511531	1497483	1509610	1509575	0.40	5.00	
208 Pb	69191	70426	69382	67952	68926	69270	1.29	5.00	
238 U	126765	128734	126188	125493	127220	126189	1.00	5.00	



7 Li

Mass Calib.

Actual: 7.05

Required: 6.90 - 7.10

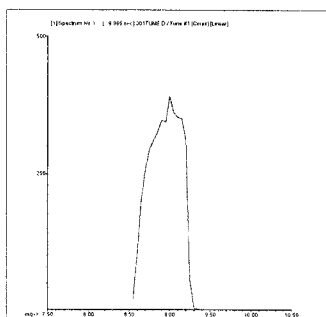
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



9 Be

Mass Calib.

Actual: 9.05

Required: 8.90 - 9.10

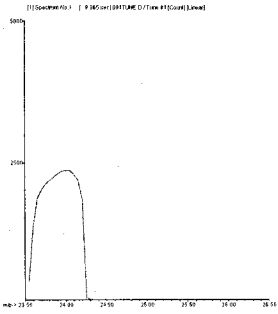
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



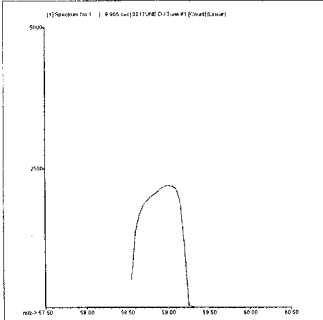
24 Mg

Mass Calib.

Actual: 24.00
Required: 23.90 - 24.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



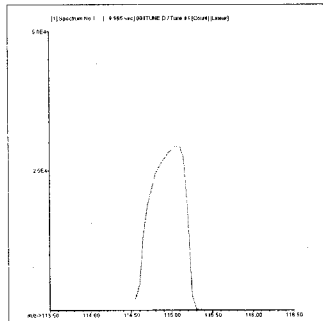
59 Co

Mass Calib.

Actual: 59.00
Required: 58.90 - 59.10
Flag:

Peak Width

Actual: 0.65
Required: 0.90
Flag:



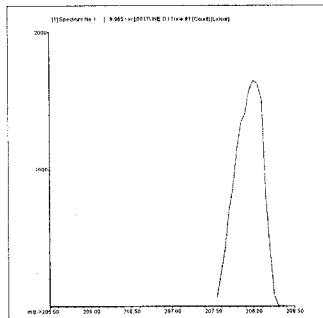
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



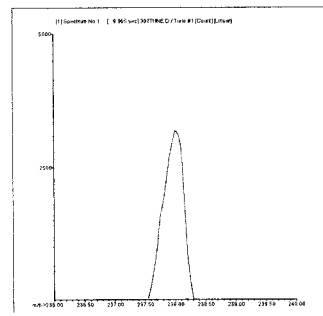
208 Pb

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: 0.60
Required: 0.90
Flag:

Tune Result:

Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\002CALB.D\002CALB.D#
 Date Acquired: Aug 10 2009 06:04 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: Aug 10 2009 06:04 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	354	31.69
52	Cr	72	1	4124	6.07
55	Mn	72	1	670	21.99
59	Co	72	1	70	14.29
60	Ni	72	1	117	21.57
63	Cu	72	1	557	9.22
66	Zn	72	1	2610	2.26
75	As	72	1	71	6.54
78	Se	72	1	770	11.10
95	Mo	72	1	70	37.80
107	Ag	115	1	17	34.64
111	Cd	115	1	30	71.04
118	Sn	115	1	417	12.08
121	Sb	115	1	17	34.64
137	Ba	115	1	41	16.88
205	Tl	165	1	118	27.20
208	Pb	165	1	282	3.80
232	Th	165	1	200	5.00
238	U	165	1	113	5.88

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	392728	0.47
45	Sc	1	2428129	0.41
72	Ge	1	1115573	2.35
115	In	1	2711701	0.96
165	Ho	1	3799176	0.71

Tune File# 1 c:\icpchem\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\AG081009A.B\003CALB.D\003CALB.D#
Date Acquired: Aug 10 2009 06:06 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: Aug 10 2009 06:04 pm
Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	27	1017.20
52	Cr	72	1	3697	2.89
55	Mn	72	1	787	17.81
59	Co	72	1	37	56.77
60	Ni	72	1	467	11.80
63	Cu	72	1	650	9.23
66	Zn	72	1	885	2.73
75	As	72	1	65	15.87
78	Se	72	1	777	16.10
95	Mo	72	1	40	43.30
107	Ag	115	1	3	173.21
111	Cd	115	1	23	56.18
118	Sn	115	1	1010	5.24
121	Sb	115	1	28	48.50
137	Ba	115	1	14	70.50
205	Tl	165	1	81	10.34
208	Pb	165	1	252	5.34
232	Th	165	1	177	8.65
238	U	165	1	26	7.53

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	394687	0.94
45	Sc	1	2446753	1.77
72	Ge	1	1125847	1.05
115	In	1	2719186	2.09
165	Ho	1	3817349	0.25

Tune File# 1 c:\icpchem\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\AG081009A.B\004ICAL.D\004ICAL.D#
 Date Acquired: Aug 10 2009 06:09 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: Aug 10 2009 06:07 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	65842	1.17
51	V	72	1535619	1.04
52	Cr	72	1532297	0.65
55	Mn	72	1633772	1.58
59	Co	72	1921710	0.85
60	Ni	72	447209	0.74
63	Cu	72	1073527	1.19
66	Zn	72	208832	1.11
75	As	72	179835	0.69
78	Se	72	30180	2.46
95	Mo	72	467956	0.64
107	Ag	115	1296538	0.46
111	Cd	115	242181	1.30
118	Sn	115	666189	0.27
121	Sb	115	760929	0.70
137	Ba	115	315160	1.02
205	Tl	165	1960793	0.44
208	Pb	165	2698115	0.18
232	Th	165	2387349	2.74
238	U	165	2722294	0.55

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	387659	0.67	394687	98.2	30 - 120
45	Sc	1	2412509	0.93	2446753	98.6	30 - 120
72	Ge	1	1107652	0.44	1125847	98.4	30 - 120
115	In	1	2709456	1.18	2719186	99.6	30 - 120
165	Ho	1	3829303	0.52	3817349	100.3	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\
 Tune File# 4

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\005_ICV.D\005_ICV.D#
 Date Acquired: Aug 10 2009 06:12 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: Aug 10 2009 06:10 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	40.48 ppb	1.00	40	101.2	90 - 110
51	V	72	1	39.31 ppb	0.98	40	98.3	90 - 110
52	Cr	72	1	39.86 ppb	0.82	40	99.7	90 - 110
55	Mn	72	1	39.36 ppb	0.49	40	98.4	90 - 110
59	Co	72	1	39.81 ppb	1.21	40	99.5	90 - 110
60	Ni	72	1	40.33 ppb	1.20	40	100.8	90 - 110
63	Cu	72	1	39.84 ppb	0.87	40	99.6	90 - 110
66	Zn	72	1	40.26 ppb	0.39	40	100.7	90 - 110
75	As	72	1	39.99 ppb	0.13	40	100.0	90 - 110
78	Se	72	1	41.87 ppb	3.08	40	104.7	90 - 110
95	Mo	72	1	39.49 ppb	0.68	40	98.7	90 - 110
107	Ag	115	1	39.86 ppb	0.43	40	99.7	90 - 110
111	Cd	115	1	40.83 ppb	1.84	40	102.1	90 - 110
118	Sn	115	1	39.26 ppb	1.02	40	98.2	90 - 110
121	Sb	115	1	39.12 ppb	1.36	40	97.8	90 - 110
137	Ba	115	1	40.11 ppb	0.69	40	100.3	90 - 110
205	Tl	165	1	40.87 ppb	1.42	40	102.2	90 - 110
208	Pb	165	1	40.72 ppb	1.25	40	101.8	90 - 110
232	Th	165	1	44.35 ppb	1.41	40	110.9	90 - 110
238	U	165	1	40.53 ppb	0.56	40	101.3	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	386356	0.92	394687	97.9	30 - 120
45	Sc	1	2392521	0.40	2446753	97.8	30 - 120
72	Ge	1	1110457	0.44	1125847	98.6	30 - 120
115	In	1	2702975	0.93	2719186	99.4	30 - 120
165	Ho	1	3868261	0.70	3817349	101.3	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\AG081009A.B\003CALB.D\003CALB.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\AG081009A.B\006WASH.D\006WASH.D#
 Date Acquired: Aug 10 2009 06:15 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: Aug 10 2009 06:10 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	0.962 ppb	11.83	1.30	
51 V	72	1	5.098 ppb	0.72	6.50	
52 Cr	72	1	2.153 ppb	0.77	2.60	
55 Mn	72	1	1.013 ppb	1.93	1.30	
59 Co	72	1	1.046 ppb	1.77	1.30	
60 Ni	72	1	2.036 ppb	1.65	2.60	
63 Cu	72	1	2.079 ppb	2.63	2.60	
66 Zn	72	1	10.260 ppb	0.96	13.00	
75 As	72	1	5.112 ppb	0.38	6.50	
78 Se	72	1	4.868 ppb	3.66	6.50	
95 Mo	72	1	2.199 ppb	4.71	2.60	
107 Ag	115	1	5.190 ppb	1.63	6.50	
111 Cd	115	1	1.068 ppb	0.77	1.30	
118 Sn	115	1	10.230 ppb	1.10	13.00	
121 Sb	115	1	2.192 ppb	0.80	2.60	
137 Ba	115	1	1.075 ppb	3.75	1.30	
205 Tl	165	1	1.158 ppb	2.36	1.30	
208 Pb	165	1	1.072 ppb	0.99	1.30	
232 Th	165	1	3.344 ppb	3.13	2.60	
238 U	165	1	1.105 ppb	2.11	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389518	0.53	394687	98.7	30 - 120	
45 Sc	1	2376989	0.76	2446753	97.1	30 - 120	
72 Ge	1	1099932	0.58	1125847	97.7	30 - 120	
115 In	1	2703766	0.89	2719186	99.4	30 - 120	
165 Ho	1	3816929	0.48	3817349	100.0	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\AG081009A.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\AG081009A.B\010SMPL.D\010SMPL.D#
 Date Acquired: Aug 10 2009 06:26 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: Aug 10 2009 06:10 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	153.00	3600	
52 Cr	72	1	0.00	0.00	ppb	726.14	3600	
55 Mn	72	1	-0.01	-0.01	ppb	114.24	3600	
59 Co	72	1	0.00	0.00	ppb	103.96	3600	
60 Ni	72	1	-0.03	-0.03	ppb	15.09	3600	
63 Cu	72	1	0.00	0.00	ppb	118.88	3600	
66 Zn	72	1	-0.11	-0.11	ppb	3.22	3600	
75 As	72	1	0.01	0.01	ppb	74.91	3600	
78 Se	72	1	2.14	2.14	ppb	18.71	3600	
95 Mo	72	1	0.01	0.01	ppb	88.11	3600	
107 Ag	115	1	0.00	0.00	ppb	18.18	3600	
111 Cd	115	1	0.00	0.00	ppb	245.41	3600	
118 Sn	115	1	-0.05	-0.05	ppb	21.00	3600	
121 Sb	115	1	0.02	0.02	ppb	14.62	3600	
137 Ba	115	1	0.00	0.00	ppb	77.19	3600	
205 Tl	165	1	0.02	0.02	ppb	18.17	3600	
208 Pb	165	1	0.00	0.00	ppb	132.48	3600	
232 Th	165	1	0.05	0.05	ppb	10.43	1000	
238 U	165	1	0.00	0.00	ppb	1446.10	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	384420	0.66	394687	97.4	30 - 120	
45 Sc	1	2363773	0.07	2446753	96.6	30 - 120	
72 Ge	1	1095031	0.87	1125847	97.3	30 - 120	
115 In	1	2709116	0.72	2719186	99.6	30 - 120	
165 Ho	1	3806731	0.23	3817349	99.7	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\AG081009A.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\AG081009A.B\011ICSA.D\011ICSA.D#
 Date Acquired: Aug 10 2009 06:28 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 06:10 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	ppb	Flag
9	Be	6	1	0.01 ppb	173.20	1.00	
51	V	72	1	-0.28 ppb	16.13	1.00	
52	Cr	72	1	0.68 ppb	7.15	1.00	
55	Mn	72	1	3.37 ppb	3.01	1.00	
59	Co	72	1	1.52 ppb	1.80	1.00	
60	Ni	72	1	1.33 ppb	7.03	1.00	
63	Cu	72	1	1.39 ppb	1.64	1.00	
66	Zn	72	1	2.60 ppb	3.64	10.00	
75	As	72	1	0.41 ppb	4.62	1.00	
78	Se	72	1	0.04 ppb	875.93	1.00	
95	Mo	72	1	2011.00 ppb	2.30	2000.00	
107	Ag	115	1	0.04 ppb	6.23	1.00	
111	Cd	115	1	0.24 ppb	38.98	1.00	
118	Sn	115	1	0.01 ppb	102.51	10.00	
121	Sb	115	1	0.27 ppb	5.72	1.00	
137	Ba	115	1	0.07 ppb	17.98	1.00	
205	Tl	165	1	0.04 ppb	40.80	1.00	
208	Pb	165	1	0.14 ppb	3.56	1.00	
232	Th	165	1	0.10 ppb	13.38	1.00	
238	U	165	1	0.00 ppb	19.44	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	339249	1.40	394687	86.0	30 - 120
45	Sc	1	2070580	0.61	2446753	84.6	30 - 120
72	Ge	1	927464	2.03	1125847	82.4	30 - 120
115	In	1	2246349	1.22	2719186	82.6	30 - 120
165	Ho	1	3443563	1.20	3817349	90.2	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\AG081009A.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\AG081009A.B\012ICSB.D\012ICSB.D#
 Date Acquired: Aug 10 2009 06:31 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: Aug 10 2009 06:10 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	100.10	1.69	100	100.1	80 - 120	
51 V	72	1	99.46	1.23	100	99.5	80 - 120	
52 Cr	72	1	97.53	1.45	100	97.5	80 - 120	
55 Mn	72	1	98.48	0.44	100	98.5	80 - 120	
59 Co	72	1	96.28	1.69	100	96.3	80 - 120	
60 Ni	72	1	90.67	1.41	100	90.7	80 - 120	
63 Cu	72	1	88.16	1.53	100	88.2	80 - 120	
66 Zn	72	1	97.40	1.57	100	97.4	80 - 120	
75 As	72	1	100.70	1.43	100	100.7	80 - 120	
78 Se	72	1	104.50	2.15	100	104.5	80 - 120	
95 Mo	72	1	2111.00	0.32	2100	100.5	80 - 120	
107 Ag	115	1	89.84	3.58	100	89.8	80 - 120	
111 Cd	115	1	97.00	1.54	100	97.0	80 - 120	
118 Sn	115	1	102.10	1.27	100	102.1	80 - 120	
121 Sb	115	1	105.00	1.34	100	105.0	80 - 120	
137 Ba	115	1	104.10	0.70	100	104.1	80 - 120	
205 Tl	165	1	95.41	2.04	100	95.4	80 - 120	
208 Pb	165	1	93.29	0.93	100	93.3	80 - 120	
232 Th	165	1	107.70	1.56	100	107.7	80 - 120	
238 U	165	1	100.40	1.15	100	100.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	337656	1.15	394687	85.6	30 - 120	
45 Sc	1	2028207	1.22	2446753	82.9	30 - 120	
72 Ge	1	942107	0.47	1125847	83.7	30 - 120	
115 In	1	2256634	0.18	2719186	83.0	30 - 120	
165 Ho	1	3514456	0.98	3817349	92.1	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\AG081009A.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\AG081009A.B\013SMPL.D\013SMPL.D#
 Date Acquired: Aug 10 2009 06:34 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: Aug 10 2009 06:10 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	173.21	3600	
51 V	72	1	0.00	0.00	ppb	1356.30	3600	
52 Cr	72	1	0.02	0.02	ppb	126.42	3600	
55 Mn	72	1	0.00	0.00	ppb	97.83	3600	
59 Co	72	1	0.01	0.01	ppb	17.25	3600	
60 Ni	72	1	-0.06	-0.06	ppb	24.77	3600	
63 Cu	72	1	0.00	0.00	ppb	68.55	3600	
66 Zn	72	1	0.82	0.82	ppb	5.26	3600	
75 As	72	1	0.01	0.01	ppb	65.52	3600	
78 Se	72	1	0.35	0.35	ppb	98.25	3600	
95 Mo	72	1	1.75	1.75	ppb	4.87	3600	
107 Ag	115	1	0.02	0.02	ppb	59.60	3600	
111 Cd	115	1	0.00	0.00	ppb	178.39	3600	
118 Sn	115	1	-0.02	-0.02	ppb	44.11	3600	
121 Sb	115	1	0.04	0.04	ppb	18.60	3600	
137 Ba	115	1	0.01	0.01	ppb	49.69	3600	
205 Tl	165	1	0.01	0.01	ppb	15.49	3600	
208 Pb	165	1	0.01	0.01	ppb	21.27	3600	
232 Th	165	1	0.96	0.96	ppb	17.84	1000	
238 U	165	1	0.02	0.02	ppb	8.06	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	417953	1.05	394687	105.9	30 - 120	
45 Sc	1	2370217	1.00	2446753	96.9	30 - 120	
72 Ge	1	1125021	0.71	1125847	99.9	30 - 120	
115 In	1	2769043	1.00	2719186	101.8	30 - 120	
165 Ho	1	3993502	0.73	3817349	104.6	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\AG081009A.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\AG081009A.B\014_LR.D\014_LR.D#
 Date Acquired: Aug 10 2009 06:36 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: Aug 10 2009 06:10 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	1004.00 ppb	0.66	1000	100.4	90 - 110	
51 V	72	1	923.60 ppb	1.56	1000	92.4	90 - 110	
52 Cr	72	1	957.30 ppb	0.88	1000	95.7	90 - 110	
55 Mn	72	1	944.20 ppb	0.62	1000	94.4	90 - 110	
59 Co	72	1	962.70 ppb	1.17	1000	96.3	90 - 110	
60 Ni	72	1	978.20 ppb	1.60	1000	97.8	90 - 110	
63 Cu	72	1	945.60 ppb	1.33	1000	94.6	90 - 110	
66 Zn	72	1	1015.00 ppb	2.51	1000	101.5	90 - 110	
75 As	72	1	1015.00 ppb	0.37	1000	101.5	90 - 110	
78 Se	72	1	1044.00 ppb	1.38	1000	104.4	90 - 110	
95 Mo	72	1	984.90 ppb	1.46	1000	98.5	90 - 110	
107 Ag	115	1	952.90 ppb	1.27	1000	95.3	90 - 110	
111 Cd	115	1	989.60 ppb	0.87	1000	99.0	90 - 110	
118 Sn	115	1	964.00 ppb	0.79	1000	96.4	90 - 110	
121 Sb	115	1	971.00 ppb	0.56	1000	97.1	90 - 110	
137 Ba	115	1	991.30 ppb	1.54	1000	99.1	90 - 110	
205 Tl	165	1	963.90 ppb	1.23	1000	96.4	90 - 110	
208 Pb	165	1	945.40 ppb	1.22	1000	94.5	90 - 110	
232 Th	165	1	1050.00 ppb	0.83	1000	105.0	90 - 110	
238 U	165	1	967.10 ppb	0.90	1000	96.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	396227	0.55	394687	100.4	30 - 120	
45 Sc	1	2360026	1.45	2446753	96.5	30 - 120	
72 Ge	1	1098700	1.12	1125847	97.6	30 - 120	
115 In	1	2734512	0.49	2719186	100.6	30 - 120	
165 Ho	1	3971158	0.63	3817349	104.0	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\AG081009A.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\AG081009A.B\015SMPL.D\015SMPL.D#
 Date Acquired: Aug 10 2009 06:39 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: Aug 10 2009 06:10 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	0.07	0.07	ppb	11.29	3600	
51 V	72	1	0.07	0.07	ppb	49.92	3600	
52 Cr	72	1	0.08	0.08	ppb	3.05	3600	
55 Mn	72	1	0.07	0.07	ppb	11.75	3600	
59 Co	72	1	0.08	0.08	ppb	22.22	3600	
60 Ni	72	1	-0.01	-0.01	ppb	189.04	3600	
63 Cu	72	1	0.07	0.07	ppb	14.57	3600	
66 Zn	72	1	0.90	0.90	ppb	4.20	3600	
75 As	72	1	0.12	0.12	ppb	13.74	3600	
78 Se	72	1	0.56	0.56	ppb	13.28	3600	
95 Mo	72	1	0.99	0.99	ppb	7.52	3600	
107 Ag	115	1	0.11	0.11	ppb	9.78	3600	
111 Cd	115	1	0.09	0.09	ppb	18.21	3600	
118 Sn	115	1	1.04	1.04	ppb	13.89	3600	
121 Sb	115	1	0.46	0.46	ppb	3.67	3600	
137 Ba	115	1	0.07	0.07	ppb	29.33	3600	
205 Tl	165	1	0.24	0.24	ppb	12.29	3600	
208 Pb	165	1	0.09	0.09	ppb	17.25	3600	
232 Th	165	1	6.26	6.26	ppb	20.02	1000	
238 U	165	1	0.15	0.15	ppb	1.91	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406521	1.45	394687	103.0	30 - 120	
45 Sc	1	2437916	0.81	2446753	99.6	30 - 120	
72 Ge	1	1134540	0.61	1125847	100.8	30 - 120	
115 In	1	2782594	0.81	2719186	102.3	30 - 120	
165 Ho	1	3984640	0.83	3817349	104.4	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\AG081009A.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\AG081009A.B\016_CCV.D\016_CCV.D#
 Date Acquired: Aug 10 2009 06:42 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: Aug 10 2009 06:10 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	49.23 ppb	1.97	50	98.5	90 - 110	
51	V	72	48.18 ppb	3.03	50	96.4	90 - 110	
52	Cr	72	49.10 ppb	2.47	50	98.2	90 - 110	
55	Mn	72	48.34 ppb	2.30	50	96.7	90 - 110	
59	Co	72	50.75 ppb	1.62	50	101.5	90 - 110	
60	Ni	72	49.33 ppb	1.83	50	98.7	90 - 110	
63	Cu	72	48.69 ppb	2.92	50	97.4	90 - 110	
66	Zn	72	52.56 ppb	1.77	50	105.1	90 - 110	
75	As	72	49.20 ppb	2.24	50	98.4	90 - 110	
78	Se	72	48.36 ppb	4.30	50	96.7	90 - 110	
95	Mo	72	50.11 ppb	1.65	50	100.2	90 - 110	
107	Ag	115	49.41 ppb	0.58	50	98.8	90 - 110	
111	Cd	115	49.05 ppb	0.87	50	98.1	90 - 110	
118	Sn	115	50.05 ppb	1.70	50	100.1	90 - 110	
121	Sb	115	49.82 ppb	1.05	50	99.6	90 - 110	
137	Ba	115	49.79 ppb	0.54	50	99.6	90 - 110	
205	Tl	165	50.63 ppb	1.41	50	101.3	90 - 110	
208	Pb	165	50.26 ppb	0.23	50	100.5	90 - 110	
232	Th	165	52.23 ppb	3.29	50	104.5	90 - 110	
238	U	165	50.28 ppb	1.54	50	100.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398790	1.16	394687	101.0	30 - 120
45	Sc	1	2428065	0.52	2446753	99.2	30 - 120
72	Ge	1	1132154	1.68	1125847	100.6	30 - 120
115	In	1	2783451	0.38	2719186	102.4	30 - 120
165	Ho	1	3944703	1.21	3817349	103.3	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\AG081009A.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\AG081009A.B\017_CCB.D\017_CCB.D#
 Date Acquired: Aug 10 2009 06:45 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: Aug 10 2009 06:10 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

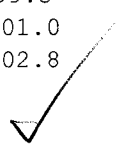
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.029	ppb	50.02	1.00	
51 V	72	1	0.019	ppb	104.60	1.00	
52 Cr	72	1	0.033	ppb	99.12	1.00	
55 Mn	72	1	0.000	ppb	2663.10	1.00	
59 Co	72	1	0.016	ppb	6.13	1.00	
60 Ni	72	1	-0.070	ppb	15.94	1.00	
63 Cu	72	1	0.009	ppb	119.60	1.00	
66 Zn	72	1	-0.124	ppb	10.27	1.00	
75 As	72	1	0.017	ppb	49.87	1.00	
78 Se	72	1	0.100	ppb	304.64	1.00	
95 Mo	72	1	0.179	ppb	6.53	1.00	
107 Ag	115	1	0.018	ppb	20.56	1.00	
111 Cd	115	1	0.001	ppb	1567.90	1.00	
118 Sn	115	1	0.177	ppb	26.58	1.00	
121 Sb	115	1	0.101	ppb	8.06	1.00	
137 Ba	115	1	0.018	ppb	26.37	1.00	
205 Tl	165	1	0.073	ppb	5.05	1.00	
208 Pb	165	1	0.011	ppb	12.50	1.00	
232 Th	165	1	1.499	ppb	14.31	1.00	Fail
238 U	165	1	0.023	ppb	2.40	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406279	0.13	394687	102.9	30 - 120	
45 Sc	1	2409755	0.92	2446753	98.5	30 - 120	
72 Ge	1	1118502	1.15	1125847	99.3	30 - 120	
115 In	1	2746559	0.29	2719186	101.0	30 - 120	
165 Ho	1	3925108	0.26	3817349	102.8	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\AG081009A.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\AG081009A.B\018WASH.D\018WASH.D#
 Date Acquired: Aug 10 2009 06:47 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: Aug 10 2009 06:10 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	1.105 ppb	6.50	1.30	
51 V	72		1	5.087 ppb	3.62	6.50	
52 Cr	72		1	2.163 ppb	2.98	2.60	
55 Mn	72		1	1.000 ppb	2.91	1.30	
59 Co	72		1	1.065 ppb	2.44	1.30	
60 Ni	72		1	2.023 ppb	1.63	2.60	
63 Cu	72		1	2.091 ppb	1.36	2.60	
66 Zn	72		1	10.460 ppb	2.37	13.00	
75 As	72		1	5.273 ppb	1.62	6.50	
78 Se	72		1	5.734 ppb	6.76	6.50	
95 Mo	72		1	2.210 ppb	2.32	2.60	
107 Ag	115		1	5.205 ppb	1.43	6.50	
111 Cd	115		1	1.050 ppb	4.55	1.30	
118 Sn	115		1	10.450 ppb	1.08	13.00	
121 Sb	115		1	2.010 ppb	2.30	2.60	
137 Ba	115		1	1.109 ppb	3.21	1.30	
205 Tl	165		1	1.150 ppb	1.01	1.30	
208 Pb	165		1	1.076 ppb	0.61	1.30	
232 Th	165		1	2.636 ppb	1.22	2.60	
238 U	165		1	1.112 ppb	1.72	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	404611	0.96	394687	102.5	30 - 120	
45 Sc	1	2418551	0.39	2446753	98.8	30 - 120	
72 Ge	1	1116189	1.64	1125847	99.1	30 - 120	
115 In	1	2767098	0.92	2719186	101.8	30 - 120	
165 Ho	1	3902436	1.37	3817349	102.2	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\AG081009A.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.D#
 Date Acquired: Aug 10 2009 09:53 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: Aug 10 2009 09:51 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	359	49.21
52	Cr	72	1	3327	12.19
55	Mn	72	1	673	7.00
59	Co	72	1	63	23.12
60	Ni	72	1	473	1.82
63	Cu	72	1	697	6.65
66	Zn	72	1	5275	0.36
75	As	72	1	61	14.81
78	Se	72	1	797	7.38
95	Mo	72	1	473	9.18
107	Ag	115	1	17	69.77
111	Cd	115	1	-4	468.40
118	Sn	115	1	883	12.90
121	Sb	115	1	41	5.27
137	Ba	115	1	28	7.48
205	Tl	165	1	71	17.08
208	Pb	165	1	277	1.82
232	Th	165	1	177	27.11
238	U	165	1	33	9.30

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	367189	0.76
45	Sc	1	2198650	1.42
72	Ge	1	1047607	1.49
115	In	1	2618639	1.31
165	Ho	1	3698894	0.81

Tune File# 1 c:\icpchem\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\AG081009A.B\087ICAL.D\087ICAL.D#
 Date Acquired: Aug 10 2009 09:56 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: Aug 10 2009 09:54 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	57454	2.68
51	V	72	1384602	1.93
52	Cr	72	1372006	0.28
55	Mn	72	1464416	1.26
59	Co	72	1764191	0.16
60	Ni	72	409818	1.72
63	Cu	72	979076	1.00
66	Zn	72	190440	1.50
75	As	72	169475	1.58
78	Se	72	28790	1.31
95	Mo	72	438801	1.48
107	Ag	115	1212795	1.22
111	Cd	115	227416	1.07
118	Sn	115	638283	0.63
121	Sb	115	733198	0.80
137	Ba	115	310900	0.47
205	Tl	165	1935696	0.85
208	Pb	165	2637712	0.66
232	Th	165	2426931	3.16
238	U	165	2684142	1.00

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357017	0.84	367189	97.2	30 - 120
45	Sc	1	2175000	2.00	2198650	98.9	30 - 120
72	Ge	1	1036228	0.96	1047607	98.9	30 - 120
115	In	1	2589357	0.36	2618639	98.9	30 - 120
165	Ho	1	3695829	0.53	3698894	99.9	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\088_CCV.D\088_CCV.D#
 Date Acquired: Aug 10 2009 09:58 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: Aug 10 2009 09:56 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	49.65 ppb	0.92	50	99.3	90 - 110	
51	V	72	49.06 ppb	0.95	50	98.1	90 - 110	
52	Cr	72	49.92 ppb	0.60	50	99.8	90 - 110	
55	Mn	72	49.36 ppb	0.14	50	98.7	90 - 110	
59	Co	72	50.34 ppb	0.60	50	100.7	90 - 110	
60	Ni	72	49.67 ppb	0.42	50	99.3	90 - 110	
63	Cu	72	49.63 ppb	0.70	50	99.3	90 - 110	
66	Zn	72	52.10 ppb	0.54	50	104.2	90 - 110	
75	As	72	49.34 ppb	0.43	50	98.7	90 - 110	
78	Se	72	50.04 ppb	4.56	50	100.1	90 - 110	
95	Mo	72	49.69 ppb	0.55	50	99.4	90 - 110	
107	Ag	115	49.28 ppb	0.25	50	98.6	90 - 110	
111	Cd	115	49.24 ppb	0.70	50	98.5	90 - 110	
118	Sn	115	49.32 ppb	0.50	50	98.6	90 - 110	
121	Sb	115	49.29 ppb	0.48	50	98.6	90 - 110	
137	Ba	115	49.29 ppb	0.72	50	98.6	90 - 110	
205	Tl	165	49.61 ppb	2.22	50	99.2	90 - 110	
208	Pb	165	49.80 ppb	0.99	50	99.6	90 - 110	
232	Th	165	51.14 ppb	2.51	50	102.3	90 - 110	
238	U	165	50.39 ppb	1.56	50	100.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351371	1.00	367189	95.7	30 - 120
45	Sc	1	2164138	0.74	2198650	98.4	30 - 120
72	Ge	1	1029321	0.36	1047607	98.3	30 - 120
115	In	1	2597133	0.22	2618639	99.2	30 - 120
165	Ho	1	3706192	0.53	3698894	100.2	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\089_CCB.D\089_CCB.D#
 Date Acquired: Aug 10 2009 10:01 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: Aug 10 2009 09:56 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

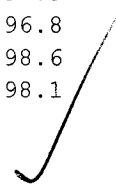
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.000 ppb	0.00	1.00	
51 V	72	1	-0.009 ppb	338.45	1.00	
52 Cr	72	1	0.012 ppb	59.28	1.00	
55 Mn	72	1	0.022 ppb	43.47	1.00	
59 Co	72	1	0.010 ppb	28.80	1.00	
60 Ni	72	1	-0.073 ppb	8.59	1.00	
63 Cu	72	1	0.010 ppb	144.48	1.00	
66 Zn	72	1	-2.512 ppb	0.84	1.00	
75 As	72	1	0.021 ppb	33.66	1.00	
78 Se	72	1	0.361 ppb	104.40	1.00	
95 Mo	72	1	0.004 ppb	623.22	1.00	
107 Ag	115	1	0.021 ppb	6.66	1.00	
111 Cd	115	1	0.018 ppb	60.33	1.00	
118 Sn	115	1	0.058 ppb	14.07	1.00	
121 Sb	115	1	0.062 ppb	11.03	1.00	
137 Ba	115	1	0.017 ppb	12.47	1.00	
205 Tl	165	1	0.050 ppb	6.12	1.00	
208 Pb	165	1	0.014 ppb	17.03	1.00	
232 Th	165	1	1.175 ppb	19.44	1.00	Fail
238 U	165	1	0.018 ppb	4.03	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	354938	0.52	367189	96.7	30 - 120	
45 Sc	1	2151415	1.57	2198650	97.9	30 - 120	
72 Ge	1	1014505	0.33	1047607	96.8	30 - 120	
115 In	1	2580961	0.71	2618639	98.6	30 - 120	
165 Ho	1	3627865	0.73	3698894	98.1	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\090WASH.D\090WASH.D#
 Date Acquired: Aug 10 2009 10:04 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: Aug 10 2009 09:56 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	1.015 ppb	16.54	1.30	
51 V	72	1	5.138 ppb	2.71	6.50	
52 Cr	72	1	2.154 ppb	2.58	2.60	
55 Mn	72	1	1.034 ppb	3.82	1.30	
59 Co	72	1	1.063 ppb	0.98	1.30	
60 Ni	72	1	2.069 ppb	2.67	2.60	
63 Cu	72	1	2.077 ppb	4.34	2.60	
66 Zn	72	1	8.295 ppb	0.25	13.00	
75 As	72	1	5.196 ppb	0.91	6.50	
78 Se	72	1	5.418 ppb	18.66	6.50	
95 Mo	72	1	2.025 ppb	0.52	2.60	
107 Ag	115	1	5.220 ppb	3.85	6.50	
111 Cd	115	1	1.108 ppb	1.99	1.30	
118 Sn	115	1	10.370 ppb	3.55	13.00	
121 Sb	115	1	1.946 ppb	3.35	2.60	
137 Ba	115	1	1.029 ppb	4.99	1.30	
205 Tl	165	1	1.117 ppb	0.99	1.30	
208 Pb	165	1	1.077 ppb	3.12	1.30	
232 Th	165	1	2.386 ppb	1.30	2.60	
238 U	165	1	1.118 ppb	1.09	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	357020	1.30	367189	97.2	30 - 120	
45 Sc	1	2160440	1.21	2198650	98.3	30 - 120	
72 Ge	1	1029685	0.36	1047607	98.3	30 - 120	
115 In	1	2599204	1.03	2618639	99.3	30 - 120	
165 Ho	1	3673409	1.01	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\091ICSA.D\091ICSA.D#
 Date Acquired: Aug 10 2009 10:07 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Summary:

Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00 ppb	0.00	1.00
51	V	72	1	-0.25 ppb	33.72	1.00
52	Cr	72	1	0.68 ppb	2.34	1.00
55	Mn	72	1	3.51 ppb	0.92	1.00
59	Co	72	1	1.54 ppb	4.46	1.00
60	Ni	72	1	1.54 ppb	3.35	1.00
63	Cu	72	1	1.42 ppb	2.18	1.00
66	Zn	72	1	0.44 ppb	30.29	10.00
75	As	72	1	0.40 ppb	6.23	1.00
78	Se	72	1	0.69 ppb	56.98	1.00
95	Mo	72	1	2004.00 ppb	1.89	2000.00
107	Ag	115	1	0.04 ppb	16.72	1.00
111	Cd	115	1	0.32 ppb	32.82	1.00
118	Sn	115	1	0.08 ppb	26.70	10.00
121	Sb	115	1	0.28 ppb	3.97	1.00
137	Ba	115	1	0.07 ppb	7.46	1.00
205	Tl	165	1	0.05 ppb	45.56	1.00
208	Pb	165	1	0.13 ppb	2.60	1.00
232	Th	165	1	0.24 ppb	29.64	1.00
238	U	165	1	0.00 ppb	29.69	1.00

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326427	1.11	367189	88.9	30 - 120
45	Sc	1	1913508	1.00	2198650	87.0	30 - 120
72	Ge	1	902523	1.26	1047607	86.2	30 - 120
115	In	1	2206404	0.65	2618639	84.3	30 - 120
165	Ho	1	3333118	1.23	3698894	90.1	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\092ICSB.D\092ICSB.D#
 Date Acquired: Aug 10 2009 10:09 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: Aug 10 2009 09:56 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	99.06	1.64	100	99.1	80 - 120	
51	V	72	1	104.40	0.92	100	104.4	80 - 120	
52	Cr	72	1	101.90	0.77	100	101.9	80 - 120	
55	Mn	72	1	104.20	0.96	100	104.2	80 - 120	
59	Co	72	1	100.30	0.98	100	100.3	80 - 120	
60	Ni	72	1	95.98	1.20	100	96.0	80 - 120	
63	Cu	72	1	92.71	1.33	100	92.7	80 - 120	
66	Zn	72	1	101.10	1.14	100	101.1	80 - 120	
75	As	72	1	104.70	0.73	100	104.7	80 - 120	
78	Se	72	1	113.30	0.82	100	113.3	80 - 120	
95	Mo	72	1	2162.00	1.87	2100	103.0	80 - 120	
107	Ag	115	1	82.22	3.89	100	82.2	80 - 120	
111	Cd	115	1	96.12	2.03	100	96.1	80 - 120	
118	Sn	115	1	100.50	2.06	100	100.5	80 - 120	
121	Sb	115	1	102.50	1.80	100	102.5	80 - 120	
137	Ba	115	1	102.20	1.70	100	102.2	80 - 120	
205	Tl	165	1	94.99	0.97	100	95.0	80 - 120	
208	Pb	165	1	93.26	0.57	100	93.3	80 - 120	
232	Th	165	1	105.90	2.13	100	105.9	80 - 120	
238	U	165	1	99.43	0.45	100	99.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327794	0.59	367189	89.3	30 - 120
45	Sc	1	1916330	0.56	2198650	87.2	30 - 120
72	Ge	1	875267	0.68	1047607	83.5	30 - 120
115	In	1	2211280	1.50	2618639	84.4	30 - 120
165	Ho	1	3358970	0.46	3698894	90.8	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\AG081009A.B\086CALB.D\086CALB.D#

0 :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\AG081009A.B\093WASH.D\093WASH.D#
 Date Acquired: Aug 10 2009 10:12 pm
 Operator: TEL
 Sample Name: WASH
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 09:56 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	0.006 ppb	173.19	1.30	
51 V	72	1	-0.034 ppb	135.22	6.50	
52 Cr	72	1	0.000 ppb	5464.80	2.60	
55 Mn	72	1	0.019 ppb	10.91	1.30	
59 Co	72	1	0.009 ppb	18.44	1.30	
60 Ni	72	1	-0.069 ppb	6.69	2.60	
63 Cu	72	1	0.016 ppb	51.79	2.60	
66 Zn	72	1	-1.678 ppb	2.09	13.00	
75 As	72	1	0.020 ppb	87.04	6.50	
78 Se	72	1	0.273 ppb	159.00	6.50	
95 Mo	72	1	1.722 ppb	10.74	2.60	
107 Ag	115	1	0.016 ppb	7.48	6.50	
111 Cd	115	1	0.027 ppb	39.87	1.30	
118 Sn	115	1	0.008 ppb	139.77	13.00	
121 Sb	115	1	0.031 ppb	10.67	2.60	
137 Ba	115	1	0.014 ppb	37.96	1.30	
205 Tl	165	1	0.019 ppb	7.24	1.30	
208 Pb	165	1	0.014 ppb	25.78	1.30	
232 Th	165	1	1.029 ppb	17.84	2.60	
238 U	165	1	0.020 ppb	2.81	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	366369	0.31	367189	99.8	30 - 120	
45 Sc	1	2076235	0.60	2198650	94.4	30 - 120	
72 Ge	1	994316	1.14	1047607	94.9	30 - 120	
115 In	1	2560866	0.59	2618639	97.8	30 - 120	
165 Ho	1	3648181	1.84	3698894	98.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\094_CCV.D\094_CCV.D#
 Date Acquired: Aug 10 2009 10:15 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: Aug 10 2009 09:56 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	49.46 ppb	4.16	50	98.9	90 - 110	
51	V	72	48.94 ppb	0.53	50	97.9	90 - 110	
52	Cr	72	50.07 ppb	1.20	50	100.1	90 - 110	
55	Mn	72	49.34 ppb	1.59	50	98.7	90 - 110	
59	Co	72	50.31 ppb	1.34	50	100.6	90 - 110	
60	Ni	72	50.23 ppb	2.45	50	100.5	90 - 110	
63	Cu	72	49.54 ppb	2.01	50	99.1	90 - 110	
66	Zn	72	52.03 ppb	1.37	50	104.1	90 - 110	
75	As	72	49.61 ppb	1.73	50	99.2	90 - 110	
78	Se	72	50.01 ppb	0.38	50	100.0	90 - 110	
95	Mo	72	50.34 ppb	1.73	50	100.7	90 - 110	
107	Ag	115	49.34 ppb	1.02	50	98.7	90 - 110	
111	Cd	115	49.64 ppb	0.95	50	99.3	90 - 110	
118	Sn	115	49.84 ppb	1.63	50	99.7	90 - 110	
121	Sb	115	49.47 ppb	0.88	50	98.9	90 - 110	
137	Ba	115	49.80 ppb	0.36	50	99.6	90 - 110	
205	Tl	165	50.15 ppb	0.99	50	100.3	90 - 110	
208	Pb	165	50.50 ppb	1.80	50	101.0	90 - 110	
232	Th	165	50.90 ppb	3.30	50	101.8	90 - 110	
238	U	165	51.21 ppb	1.74	50	102.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	358196	0.69	367189	97.6	30 - 120
45	Sc	1	2129878	1.22	2198650	96.9	30 - 120
72	Ge	1	1014484	1.02	1047607	96.8	30 - 120
115	In	1	2569748	0.08	2618639	98.1	30 - 120
165	Ho	1	3684571	0.80	3698894	99.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\095_CCB.D\095_CCB.D#
 Date Acquired: Aug 10 2009 10:18 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: Aug 10 2009 09:56 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

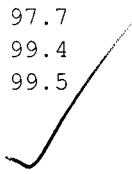
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.028	ppb	125.04	1.00	
51 V	72	1	-0.023	ppb	143.33	1.00	
52 Cr	72	1	-0.002	ppb	923.90	1.00	
55 Mn	72	1	0.028	ppb	32.43	1.00	
59 Co	72	1	0.009	ppb	26.21	1.00	
60 Ni	72	1	-0.067	ppb	9.77	1.00	
63 Cu	72	1	0.012	ppb	106.20	1.00	
66 Zn	72	1	-2.522	ppb	0.45	1.00	
75 As	72	1	0.008	ppb	139.22	1.00	
78 Se	72	1	-0.028	ppb	2465.70	1.00	
95 Mo	72	1	0.131	ppb	6.13	1.00	
107 Ag	115	1	0.017	ppb	9.39	1.00	
111 Cd	115	1	0.021	ppb	62.04	1.00	
118 Sn	115	1	0.019	ppb	40.06	1.00	
121 Sb	115	1	0.056	ppb	6.71	1.00	
137 Ba	115	1	0.019	ppb	11.10	1.00	
205 Tl	165	1	0.030	ppb	5.43	1.00	
208 Pb	165	1	0.013	ppb	16.52	1.00	
232 Th	165	1	1.108	ppb	18.47	1.00	Fail
238 U	165	1	0.017	ppb	5.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	365426	0.22	367189	99.5	30 - 120	
45 Sc	1	2161178	2.00	2198650	98.3	30 - 120	
72 Ge	1	1023099	0.56	1047607	97.7	30 - 120	
115 In	1	2603761	0.60	2618639	99.4	30 - 120	
165 Ho	1	3680889	1.54	3698894	99.5	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\096WASH.D\096WASH.D#
 Date Acquired: Aug 10 2009 10:20 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: Aug 10 2009 09:56 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	1.079 ppb	10.92	1.30	
51 V	72	1	5.130 ppb	1.45	6.50	
52 Cr	72	1	2.157 ppb	4.54	2.60	
55 Mn	72	1	1.063 ppb	4.53	1.30	
59 Co	72	1	1.050 ppb	1.09	1.30	
60 Ni	72	1	2.074 ppb	4.23	2.60	
63 Cu	72	1	2.123 ppb	1.17	2.60	
66 Zn	72	1	8.217 ppb	1.74	13.00	
75 As	72	1	5.217 ppb	0.89	6.50	
78 Se	72	1	5.154 ppb	5.40	6.50	
95 Mo	72	1	2.220 ppb	6.77	2.60	
107 Ag	115	1	5.308 ppb	1.41	6.50	
111 Cd	115	1	1.070 ppb	1.11	1.30	
118 Sn	115	1	10.290 ppb	0.24	13.00	
121 Sb	115	1	2.012 ppb	3.04	2.60	
137 Ba	115	1	1.086 ppb	2.73	1.30	
205 Tl	165	1	1.124 ppb	1.17	1.30	
208 Pb	165	1	1.090 ppb	1.55	1.30	
232 Th	165	1	2.384 ppb	1.99	2.60	
238 U	165	1	1.125 ppb	2.15	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	362803	1.37	367189	98.8	30 - 120	
45 Sc	1	2155781	1.24	2198650	98.1	30 - 120	
72 Ge	1	1022103	1.11	1047607	97.6	30 - 120	
115 In	1	2573971	0.56	2618639	98.3	30 - 120	
165 Ho	1	3674326	0.25	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.D#
 Date Acquired: Aug 10 2009 11:51 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: Aug 10 2009 11:49 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	-204	211.14
52	Cr	72	1	2947	6.78
55	Mn	72	1	517	14.80
59	Co	72	1	33	35.39
60	Ni	72	1	87	45.12
63	Cu	72	1	677	10.89
66	Zn	72	1	237	18.82
75	As	72	1	69	15.74
78	Se	72	1	613	7.25
95	Mo	72	1	487	21.90
107	Ag	115	1	7	86.63
111	Cd	115	1	9	55.22
118	Sn	115	1	527	25.33
121	Sb	115	1	46	21.06
137	Ba	115	1	21	55.68
205	Tl	165	1	54	35.92
208	Pb	165	1	217	1.32
232	Th	165	1	210	24.29
238	U	165	1	58	9.14

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	298913	0.41
45	Sc	1	1771505	1.08
72	Ge	1	851994	1.37
115	In	1	2290579	0.24
165	Ho	1	3269618	1.10

Tune File# 1 c:\icpchem\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\AG081009A.B\129ICAL.D\129ICAL.D#
 Date Acquired: Aug 10 2009 11:54 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: Aug 10 2009 11:52 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	44626	1.86
51	V	72	1103412	1.83
52	Cr	72	1112907	2.35
55	Mn	72	1182637	1.64
59	Co	72	1406971	1.17
60	Ni	72	322074	1.24
63	Cu	72	765226	0.44
66	Zn	72	149309	0.51
75	As	72	135226	0.52
78	Se	72	23661	3.26
95	Mo	72	358767	0.65
107	Ag	115	1018041	1.08
111	Cd	115	189633	1.01
118	Sn	115	539808	0.91
121	Sb	115	608141	0.64
137	Ba	115	268515	0.48
205	Tl	165	1732019	1.28
208	Pb	165	2365674	0.82
232	Th	165	2194146	3.15
238	U	165	2441986	1.18

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	289713	1.35	298913	96.9	30 - 120
45	Sc	1	1702546	1.03	1771505	96.1	30 - 120
72	Ge	1	813760	0.90	851994	95.5	30 - 120
115	In	1	2210431	0.19	2290579	96.5	30 - 120
165	Ho	1	3250286	0.48	3269618	99.4	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\131_CCB.D\131_CCB.D#
 Date Acquired: Aug 10 2009 11:59 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: Aug 10 2009 11:54 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	0.007 ppb	173.23	1.00	
51 V	72	1	0.027 ppb	52.26	1.00	
52 Cr	72	1	0.022 ppb	96.05	1.00	
55 Mn	72	1	0.093 ppb	16.51	1.00	
59 Co	72	1	0.013 ppb	10.56	1.00	
60 Ni	72	1	0.031 ppb	15.88	1.00	
63 Cu	72	1	0.039 ppb	36.46	1.00	
66 Zn	72	1	0.568 ppb	5.54	1.00	
75 As	72	1	0.016 ppb	167.31	1.00	
78 Se	72	1	0.407 ppb	77.30	1.00	
95 Mo	72	1	-0.004 ppb	423.30	1.00	
107 Ag	115	1	0.018 ppb	31.54	1.00	
111 Cd	115	1	0.010 ppb	43.83	1.00	
118 Sn	115	1	0.075 ppb	23.85	1.00	
121 Sb	115	1	0.059 ppb	6.87	1.00	
137 Ba	115	1	0.017 ppb	19.95	1.00	
205 Tl	165	1	0.053 ppb	9.73	1.00	
208 Pb	165	1	0.016 ppb	6.36	1.00	
232 Th	165	1	1.410 ppb	17.65	1.00	Fail
238 U	165	1	0.018 ppb	20.10	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	293448	0.70	298913	98.2	30 - 120	
45 Sc	1	1702764	0.71	1771505	96.1	30 - 120	
72 Ge	1	833810	0.47	851994	97.9	30 - 120	
115 In	1	2223577	1.33	2290579	97.1	30 - 120	
165 Ho	1	3240597	0.45	3269618	99.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\132WASH.D\132WASH.D#
 Date Acquired: Aug 11 2009 12:02 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: Aug 10 2009 11:54 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	0.899 ppb	14.08	1.30	
51 V	72	1	4.971 ppb	1.08	6.50	
52 Cr	72	1	1.987 ppb	1.47	2.60	
55 Mn	72	1	1.001 ppb	2.00	1.30	
59 Co	72	1	1.052 ppb	4.51	1.30	
60 Ni	72	1	2.068 ppb	5.49	2.60	
63 Cu	72	1	2.048 ppb	1.81	2.60	
66 Zn	72	1	10.340 ppb	0.83	13.00	
75 As	72	1	5.128 ppb	2.68	6.50	
78 Se	72	1	4.579 ppb	16.89	6.50	
95 Mo	72	1	2.046 ppb	2.72	2.60	
107 Ag	115	1	5.235 ppb	2.60	6.50	
111 Cd	115	1	1.066 ppb	2.10	1.30	
118 Sn	115	1	10.190 ppb	0.75	13.00	
121 Sb	115	1	1.946 ppb	1.04	2.60	
137 Ba	115	1	1.082 ppb	1.38	1.30	
205 Tl	165	1	1.105 ppb	0.56	1.30	
208 Pb	165	1	1.062 ppb	0.76	1.30	
232 Th	165	1	2.471 ppb	1.77	2.60	
238 U	165	1	1.103 ppb	0.44	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291146	0.69	298913	97.4	30 - 120	
45 Sc	1	1730528	0.89	1771505	97.7	30 - 120	
72 Ge	1	836746	1.09	851994	98.2	30 - 120	
115 In	1	2252218	0.93	2290579	98.3	30 - 120	
165 Ho	1	3295222	0.70	3269618	100.8	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\133_BLK.D\133_BLK.D#
 Date Acquired: Aug 11 2009 12:05 am
 Operator: TEL
 Sample Name: LHH8KBF
 Misc Info: BLANK 9217128 6020
 Vial Number: 3207
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 11:54 pm
 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	0.000 ppb	0.00	2.00	
51 V	72	1	0.016 ppb	169.94	2.00	
52 Cr	72	1	-0.022 ppb	31.14	2.00	
55 Mn	72	1	0.488 ppb	3.97	2.00	
59 Co	72	1	0.004 ppb	60.55	2.00	
60 Ni	72	1	0.020 ppb	36.21	2.00	
63 Cu	72	1	0.029 ppb	57.87	2.00	
66 Zn	72	1	1.073 ppb	2.75	2.00	
75 As	72	1	0.006 ppb	105.05	2.00	
78 Se	72	1	0.353 ppb	126.52	2.00	
95 Mo	72	1	-0.097 ppb	13.86	2.00	
107 Ag	115	1	0.006 ppb	41.54	2.00	
111 Cd	115	1	0.004 ppb	55.93	2.00	
118 Sn	115	1	0.031 ppb	61.67	2.00	
121 Sb	115	1	0.032 ppb	12.41	2.00	
137 Ba	115	1	0.023 ppb	14.76	2.00	
205 Tl	165	1	0.033 ppb	9.59	2.00	
208 Pb	165	1	0.021 ppb	11.63	2.00	
232 Th	165	1	0.153 ppb	5.30	2.00	
238 U	165	1	0.002 ppb	16.67	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	297346	0.28	298913	99.5	30 - 120	
45 Sc	1	1743723	0.20	1771505	98.4	30 - 120	
72 Ge	1	848769	0.67	851994	99.6	30 - 120	
115 In	1	2277973	0.80	2290579	99.4	30 - 120	
165 Ho	1	3303534	0.51	3269618	101.0	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\134_LCS.D\134_LCS.D#
 Date Acquired: Aug 11 2009 12:07 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHH8KCF
 Misc Info: LCS
 Vial Number: 3208
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	40.09	1.85	40	100.2	80 - 120	
51 V	72	1	39.09	1.39	40	97.7	80 - 120	
52 Cr	72	1	38.83	1.41	40	97.1	80 - 120	
55 Mn	72	1	39.05	0.87	40	97.6	80 - 120	
59 Co	72	1	40.09	0.32	40	100.2	80 - 120	
60 Ni	72	1	40.62	0.75	40	101.6	80 - 120	
63 Cu	72	1	40.90	0.30	40	102.3	80 - 120	
66 Zn	72	1	41.58	1.03	40	104.0	80 - 120	
75 As	72	1	40.88	0.56	40	102.2	80 - 120	
78 Se	72	1	40.89	7.26	40	102.2	80 - 120	
95 Mo	72	1	39.21	2.04	40	98.0	80 - 120	
107 Ag	115	1	39.57	0.22	40	98.9	80 - 120	
111 Cd	115	1	40.35	0.28	40	100.9	80 - 120	
118 Sn	115	1	0.02	99.32	40	0.0	80 - 120	
121 Sb	115	1	39.17	0.32	40	97.9	80 - 120	
137 Ba	115	1	39.65	0.63	40	99.1	80 - 120	
205 Tl	165	1	41.13	1.04	40	102.8	80 - 120	
208 Pb	165	1	41.09	1.49	40	102.7	80 - 120	
232 Th	165	1	39.89	2.05	40	99.7	80 - 120	
238 U	165	1	42.57	1.00	40	106.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	295320	0.98	298913	98.8	30 - 120	
45 Sc	1	1731359	1.02	1771505	97.7	30 - 120	
72 Ge	1	827918	0.67	851994	97.2	30 - 120	
115 In	1	2273151	0.86	2290579	99.2	30 - 120	
165 Ho	1	3283703	0.21	3269618	100.4	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\135AREF.D\135AREF.D#
 Date Acquired: Aug 11 2009 12:10 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG1RF 10X
 Misc Info: D9H040187
 Vial Number: 3209
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	0.15	0.02	ppb	173.17	3600	
51 V	72	1	-359.50	-35.95	ppb	20.55	3600	
52 Cr	72	1	10,280.00	1028.00	ppb	1.50	3600	
55 Mn	72	1	68.88	6.89	ppb	1.96	3600	
59 Co	72	1	1.14	0.11	ppb	7.12	3600	
60 Ni	72	1	7.62	0.76	ppb	4.30	3600	
63 Cu	72	1	0.70	0.07	ppb	31.42	3600	
66 Zn	72	1	1.49	0.15	ppb	15.11	3600	
75 As	72	1	111.90	11.19	ppb	0.68	3600	
78 Se	72	1	15.55	1.56	ppb	14.11	3600	
95 Mo	72	1	11.33	1.13	ppb	1.96	3600	
107 Ag	115	1	0.11	0.01	ppb	39.75	3600	
111 Cd	115	1	0.13	0.01	ppb	101.56	3600	
118 Sn	115	1	0.42	0.04	ppb	65.96	3600	
121 Sb	115	1	0.45	0.04	ppb	8.45	3600	
137 Ba	115	1	33.64	3.36	ppb	2.20	3600	
205 Tl	165	1	0.64	0.06	ppb	26.61	3600	
208 Pb	165	1	0.13	0.01	ppb	16.86	3600	
232 Th	165	1	13.01	1.30	ppb	18.39	1000	
238 U	165	1	35.63	3.56	ppb	0.88	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	288674	0.39	298913	96.6	30 - 120	
45 Sc	1	1700043	0.94	1771505	96.0	30 - 120	
72 Ge	1	786593	0.30	851994	92.3	30 - 120	
115 In	1	2077889	1.31	2290579	90.7	30 - 120	
165 Ho	1	3159328	0.84	3269618	96.6	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\136SDIL.D\136SDIL.D#
 Date Acquired: Aug 11 2009 12:13 am **QC Summary:**
 Acq. Method: NormISIS.M **Analytes: Pass**
 Operator: TEL **ISTD: Pass**
 Sample Name: LHG1RP50F
 Misc Info: SERIAL DILUTION
 Vial Number: 3210
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 Sample Type: SDIL
 Dilution Factor: 10.00

Dilution Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\135AREF.D\135AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01 ppb	86.60	0.00	475.8	90 - 110	
51 V	72	1	-4.23 ppb	12.71	-7.19	58.8	90 - 110	
52 Cr	72	1	205.10 ppb	1.11	205.60	99.8	90 - 110	
55 Mn	72	1	1.43 ppb	1.50	1.38	103.7	90 - 110	
59 Co	72	1	0.03 ppb	28.77	0.02	121.2	90 - 110	
60 Ni	72	1	0.31 ppb	6.02	0.15	201.0	90 - 110	
63 Cu	72	1	0.02 ppb	15.63	0.01	130.1	90 - 110	
66 Zn	72	1	0.11 ppb	14.81	0.03	354.4	90 - 110	
75 As	72	1	2.15 ppb	0.86	2.24	95.8	90 - 110	
78 Se	72	1	0.76 ppb	17.10	0.31	245.2	90 - 110	
95 Mo	72	1	0.12 ppb	23.67	0.23	53.7	90 - 110	
107 Ag	115	1	0.00 ppb	57.57	0.00	120.6	90 - 110	
111 Cd	115	1	0.00 ppb	242.92	0.00	-97.7	90 - 110	
118 Sn	115	1	0.08 ppb	14.99	0.01	926.3	90 - 110	
121 Sb	115	1	0.01 ppb	24.84	0.01	132.7	90 - 110	
137 Ba	115	1	0.74 ppb	7.84	0.67	110.3	90 - 110	
205 Tl	165	1	0.01 ppb	22.05	0.01	81.1	90 - 110	
208 Pb	165	1	0.00 ppb	14.37	0.00	180.2	90 - 110	
232 Th	165	1	0.26 ppb	12.59	0.26	101.6	90 - 110	
238 U	165	1	0.72 ppb	2.27	0.71	100.9	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	303081	0.86	298913	101.4	30 - 120	
45 Sc	1	1760611	0.30	1771505	99.4	30 - 120	
72 Ge	1	840140	0.39	851994	98.6	30 - 120	
115 In	1	2223697	0.85	2290579	97.1	30 - 120	
165 Ho	1	3254927	0.81	3269618	99.6	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\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 10:34:16

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHG1RP50F

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG081009A # 136

Method 6020_

Acquired: 08/11/2009 00:13:00

ICPMS_024

Matrix: AQUEOUS

Calibrated: 08/10/2009 23:51:00

Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9	7	0.71650	0.15060	376		*	
7440-62-2	Vanadium	51	-48404	-211.45	-359.50			*	
7440-47-3	Chromium	52	2354230	10255	10280	0.243		*	
7439-96-5	Manganese	55	17949	71.450	68.880	3.73		*	
7440-48-4	Cobalt	59	433	1.3775	1.1370	21.2		*	
7440-02-0	Nickel	60	1103	15.305	7.6160	101		*	
7440-50-8	Copper	63	810	0.90750	0.69740	30.1		*	
7440-66-6	Zinc	66	397	5.2950	1.4940	254		*	
7440-38-2	Arsenic	75	3060	107.25	111.90	4.16	0.21	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	787	38.130	15.550	145	0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	930	6.0850	11.330	46.3		*	
7440-22-4	Silver	107	33	0.13140	0.10900	20.6		*	
7440-43-9	Cadmium	111	4	-0.12570	0.12860	198		*	
7440-31-5	Tin	118	930	3.8590	0.41660	826		*	
7440-36-0	Antimony	121	117	0.59250	0.44640	32.7		*	
7440-39-3	Barium	137	2025	37.105	33.640	10.3		*	
7440-28-0	Thallium	205	234	0.51950	0.64030	18.9		*	
7439-92-1	Lead	208	326	0.23205	0.12880	80.2		*	
7440-61-1	Uranium	238	17646	35.965	35.630	0.940		*	
7440-29-1	Thorium	232	6012	13.215	13.010	1.58		*	
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: 

Date: 8/11/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\137PDS.D\137PDS.D#
 Date Acquired: Aug 11 2009 12:16 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG1RZF
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3211
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	208.60	0.02	ppb	1.04	200	104.3	75 - 125	
51 V	72	1	161.60	-35.95	ppb	3.19	200	98.5	75 - 125	
52 Cr	72	1	1208.00	1028.00	ppb	0.84	200	98.4	75 - 125	
55 Mn	72	1	205.10	6.89	ppb	1.28	200	99.1	75 - 125	
59 Co	72	1	197.00	0.11	ppb	0.75	200	98.4	75 - 125	
60 Ni	72	1	193.80	0.76	ppb	0.02	200	96.5	75 - 125	
63 Cu	72	1	192.40	0.07	ppb	0.65	200	96.2	75 - 125	
66 Zn	72	1	196.80	0.15	ppb	0.57	200	98.3	75 - 125	
75 As	72	1	217.50	11.19	ppb	0.63	200	103.0	75 - 125	
78 Se	72	1	211.90	1.55	ppb	0.83	200	105.1	75 - 125	
95 Mo	72	1	209.60	1.13	ppb	0.43	200	104.2	75 - 125	
107 Ag	115	1	45.55	0.01	ppb	2.11	50	91.1	75 - 125	
111 Cd	115	1	197.50	0.01	ppb	1.44	200	98.7	75 - 125	
118 Sn	115	1	185.00	0.04	ppb	0.63	200	92.5	75 - 125	
121 Sb	115	1	207.10	0.04	ppb	0.87	200	103.5	75 - 125	
137 Ba	115	1	203.30	3.36	ppb	1.27	200	100.0	75 - 125	
205 Tl	165	1	188.50	0.06	ppb	0.54	200	94.2	75 - 125	
208 Pb	165	1	186.60	0.01	ppb	0.49	200	93.3	75 - 125	
232 Th	165	1	0.16	1.30	ppb	4.56	200	0.1	75 - 125	
238 U	165	1	199.50	3.56	ppb	0.14	200	98.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	290559	0.61	298913	97.2	30 - 120	
45 Sc	1	1724423	0.63	1771505	97.3	30 - 120	
72 Ge	1	779035	0.44	851994	91.4	30 - 120	
115 In	1	2091756	1.00	2290579	91.3	30 - 120	
165 Ho	1	3176211	0.55	3269618	97.1	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\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 10:34:20

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHG1RZF

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500 Channel 272
File: AG081009A # 137 Method 6020_
Acquired: 08/11/2009 00:16:00 ICPMS_024 Matrix: AQUEOUS
Calibrated: 08/10/2009 23:51:00 Units: ug/L

Table with columns: CASN, Analyte Name, M/S, Area, Amount, Sample, %Rec., Spike, Flag, Q. Rows include Beryllium, Vanadium, Chromium, Manganese, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Molybdenum, Silver, Cadmium, Tin, Antimony, Barium, Thallium, Lead, Uranium, Thorium, Lithium, Scandium, Indium, Germanium, Holmium.

AS, Se only

Reviewed by: [Signature] Date: 8/11/09

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\140_CCV.D\140_CCV.D#
 Date Acquired: Aug 11 2009 12:24 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: Aug 10 2009 11:54 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	48.05 ppb	2.14	50	96.1	90 - 110
51	V	72	1	48.28 ppb	0.55	50	96.6	90 - 110
52	Cr	72	1	48.47 ppb	0.34	50	96.9	90 - 110
55	Mn	72	1	48.51 ppb	0.05	50	97.0	90 - 110
59	Co	72	1	49.83 ppb	0.58	50	99.7	90 - 110
60	Ni	72	1	50.62 ppb	0.97	50	101.2	90 - 110
63	Cu	72	1	50.13 ppb	0.91	50	100.3	90 - 110
66	Zn	72	1	53.11 ppb	0.29	50	106.2	90 - 110
75	As	72	1	49.76 ppb	0.62	50	99.5	90 - 110
78	Se	72	1	50.67 ppb	2.65	50	101.3	90 - 110
95	Mo	72	1	50.03 ppb	1.07	50	100.1	90 - 110
107	Ag	115	1	48.74 ppb	0.67	50	97.5	90 - 110
111	Cd	115	1	48.95 ppb	0.40	50	97.9	90 - 110
118	Sn	115	1	48.81 ppb	0.82	50	97.6	90 - 110
121	Sb	115	1	49.01 ppb	0.27	50	98.0	90 - 110
137	Ba	115	1	48.39 ppb	0.16	50	96.8	90 - 110
205	Tl	165	1	49.86 ppb	1.47	50	99.7	90 - 110
208	Pb	165	1	49.79 ppb	1.49	50	99.6	90 - 110
232	Th	165	1	49.69 ppb	4.24	50	99.4	90 - 110
238	U	165	1	51.43 ppb	0.98	50	102.9	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	296315	1.12	298913	99.1	30 - 120
45	Sc	1	1724753	0.27	1771505	97.4	30 - 120
72	Ge	1	814095	0.60	851994	95.6	30 - 120
115	In	1	2276199	1.01	2290579	99.4	30 - 120
165	Ho	1	3333127	1.63	3269618	101.9	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\141_CCB.D\141_CCB.D#
 Date Acquired: Aug 11 2009 12:27 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: Aug 10 2009 11:54 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	0.007 ppb	173.26	1.00	
51 V	72	1	0.030 ppb	63.24	1.00	
52 Cr	72	1	0.046 ppb	35.83	1.00	
55 Mn	72	1	0.078 ppb	12.97	1.00	
59 Co	72	1	0.011 ppb	22.44	1.00	
60 Ni	72	1	0.043 ppb	33.11	1.00	
63 Cu	72	1	0.021 ppb	14.28	1.00	
66 Zn	72	1	0.534 ppb	2.13	1.00	
75 As	72	1	0.013 ppb	84.72	1.00	
78 Se	72	1	0.498 ppb	74.36	1.00	
95 Mo	72	1	-0.057 ppb	32.06	1.00	
107 Ag	115	1	0.020 ppb	15.86	1.00	
111 Cd	115	1	0.008 ppb	84.67	1.00	
118 Sn	115	1	0.095 ppb	31.36	1.00	
121 Sb	115	1	0.049 ppb	9.27	1.00	
137 Ba	115	1	0.020 ppb	30.44	1.00	
205 Tl	165	1	0.033 ppb	11.13	1.00	
208 Pb	165	1	0.015 ppb	14.76	1.00	
232 Th	165	1	1.225 ppb	15.25	1.00	Fail
238 U	165	1	0.016 ppb	2.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299079	0.77	298913	100.1	30 - 120	
45 Sc	1	1736434	1.52	1771505	98.0	30 - 120	
72 Ge	1	843836	0.86	851994	99.0	30 - 120	
115 In	1	2269332	0.97	2290579	99.1	30 - 120	
165 Ho	1	3307967	0.93	3269618	101.2	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\142WASH.D\142WASH.D#
 Date Acquired: Aug 11 2009 12:29 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: Aug 10 2009 11:54 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	0.997 ppb	19.94	1.30	
51 V	72	1	4.993 ppb	2.41	6.50	
52 Cr	72	1	1.979 ppb	2.89	2.60	
55 Mn	72	1	0.999 ppb	2.38	1.30	
59 Co	72	1	1.029 ppb	4.27	1.30	
60 Ni	72	1	2.155 ppb	3.61	2.60	
63 Cu	72	1	2.009 ppb	3.95	2.60	
66 Zn	72	1	10.210 ppb	0.70	13.00	
75 As	72	1	5.007 ppb	0.90	6.50	
78 Se	72	1	5.391 ppb	9.51	6.50	
95 Mo	72	1	1.897 ppb	2.43	2.60	
107 Ag	115	1	5.135 ppb	0.72	6.50	
111 Cd	115	1	0.982 ppb	3.08	1.30	
118 Sn	115	1	10.370 ppb	3.90	13.00	
121 Sb	115	1	1.993 ppb	3.72	2.60	
137 Ba	115	1	1.033 ppb	2.27	1.30	
205 Tl	165	1	1.104 ppb	2.04	1.30	
208 Pb	165	1	1.077 ppb	1.00	1.30	
232 Th	165	1	2.396 ppb	2.33	2.60	
238 U	165	1	1.105 ppb	0.89	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	297355	0.58	298913	99.5	30 - 120	
45 Sc	1	1763171	1.88	1771505	99.5	30 - 120	
72 Ge	1	841859	0.41	851994	98.8	30 - 120	
115 In	1	2276749	1.44	2290579	99.4	30 - 120	
165 Ho	1	3305076	1.92	3269618	101.1	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\143_BLK.D\143_BLK.D#
 Date Acquired: Aug 11 2009 12:32 am
 Operator: TEL
 Sample Name: LHH8TB
 Misc Info: BLANK 9217132 6020
 Vial Number: 3302
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 11:54 pm
 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	0.007 ppb	173.16	2.00	
51 V	72	1	0.028 ppb	44.06	2.00	
52 Cr	72	1	0.098 ppb	25.54	2.00	
55 Mn	72	1	0.161 ppb	11.76	2.00	
59 Co	72	1	0.001 ppb	222.94	2.00	
60 Ni	72	1	0.014 ppb	57.90	2.00	
63 Cu	72	1	0.044 ppb	38.85	2.00	
66 Zn	72	1	0.451 ppb	1.38	2.00	
75 As	72	1	0.001 ppb	129.52	2.00	
78 Se	72	1	0.007 ppb	5104.40	2.00	
95 Mo	72	1	-0.097 ppb	12.34	2.00	
107 Ag	115	1	0.005 ppb	61.20	2.00	
111 Cd	115	1	-0.001 ppb	565.62	2.00	
118 Sn	115	1	0.049 ppb	24.21	2.00	
121 Sb	115	1	0.027 ppb	23.10	2.00	
137 Ba	115	1	0.031 ppb	11.89	2.00	
205 Tl	165	1	0.038 ppb	25.33	2.00	
208 Pb	165	1	0.009 ppb	10.73	2.00	
232 Th	165	1	0.269 ppb	20.08	2.00	
238 U	165	1	0.001 ppb	68.12	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	293359	0.79	298913	98.1	30 - 120	
45 Sc	1	1723460	0.92	1771505	97.3	30 - 120	
72 Ge	1	822004	0.58	851994	96.5	30 - 120	
115 In	1	2237686	1.60	2290579	97.7	30 - 120	
165 Ho	1	3301972	1.13	3269618	101.0	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\144_LCS.D\144_LCS.D#
 Date Acquired: Aug 11 2009 12:35 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHH8TC
 Misc Info: LCS
 Vial Number: 3303
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	39.52	0.45	40	98.8	80 - 120	
51 V	72	1	40.16	1.91	40	100.4	80 - 120	
52 Cr	72	1	40.10	0.58	40	100.3	80 - 120	
55 Mn	72	1	40.63	0.62	40	101.6	80 - 120	
59 Co	72	1	41.15	0.61	40	102.9	80 - 120	
60 Ni	72	1	41.30	0.45	40	103.3	80 - 120	
63 Cu	72	1	41.85	0.82	40	104.6	80 - 120	
66 Zn	72	1	40.31	0.46	40	100.8	80 - 120	
75 As	72	1	39.43	0.93	40	98.6	80 - 120	
78 Se	72	1	39.07	3.52	40	97.7	80 - 120	
95 Mo	72	1	39.27	0.57	40	98.2	80 - 120	
107 Ag	115	1	39.99	2.12	40	100.0	80 - 120	
111 Cd	115	1	39.63	1.74	40	99.1	80 - 120	
118 Sn	115	1	0.03	81.05	40	0.1	80 - 120	
121 Sb	115	1	37.15	1.53	40	92.9	80 - 120	
137 Ba	115	1	40.21	0.45	40	100.5	80 - 120	
205 Tl	165	1	41.60	1.30	40	104.0	80 - 120	
208 Pb	165	1	41.36	1.36	40	103.4	80 - 120	
232 Th	165	1	43.21	0.89	40	108.0	80 - 120	
238 U	165	1	42.46	0.25	40	106.2	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	288494	0.58	298913	96.5	30 - 120	
45 Sc	1	1693916	0.66	1771505	95.6	30 - 120	
72 Ge	1	796858	0.68	851994	93.5	30 - 120	
115 In	1	2230409	0.66	2290579	97.4	30 - 120	
165 Ho	1	3279872	0.76	3269618	100.3	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\145AREF.D\145AREF.D#
 Date Acquired: Aug 11 2009 12:38 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG1P 10X
 Misc Info: D9H040187
 Vial Number: 3304
 Current Method: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M
 Calibration File: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C
 Last Cal. Update: Aug 11 2009 11:17 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	0.22	0.02	ppb	0.87	3600	
51 V	72	1	-294.30	-29.43	ppb	11.86	3600	
52 Cr	72	1	10,010.00	1001.00	ppb	1.56	3600	
55 Mn	72	1	187.90	18.79	ppb	1.48	3600	
59 Co	72	1	2.72	0.27	ppb	3.00	3600	
60 Ni	72	1	9.98	1.00	ppb	3.77	3600	
63 Cu	72	1	2.78	0.28	ppb	5.35	3600	
66 Zn	72	1	6.16	0.62	ppb	4.82	3600	
75 As	72	1	103.80	10.38	ppb	2.97	3600	
78 Se	72	1	9.58	0.96	ppb	39.88	3600	
95 Mo	72	1	10.60	1.06	ppb	4.27	3600	
107 Ag	115	1	0.15	0.01	ppb	26.09	3600	
111 Cd	115	1	-0.25	-0.02	ppb	120.06	3600	
118 Sn	115	1	0.90	0.09	ppb	10.49	3600	
121 Sb	115	1	0.42	0.04	ppb	15.94	3600	
137 Ba	115	1	47.83	4.78	ppb	0.99	3600	
205 Tl	165	1	0.56	0.06	ppb	23.64	3600	
208 Pb	165	1	1.10	0.11	ppb	10.44	3600	
232 Th	165	1	9.62	0.96	ppb	14.60	1000	
238 U	165	1	32.70	3.27	ppb	2.38	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291486	0.87	298913	97.5	30 - 120	
45 Sc	1	1704287	0.82	1771505	96.2	30 - 120	
72 Ge	1	790412	0.97	851994	92.8	30 - 120	
115 In	1	2089228	1.06	2290579	91.2	30 - 120	
165 Ho	1	3175531	1.19	3269618	97.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\146SDIL.D\146SDIL.D#
 Date Acquired: Aug 11 2009 12:41 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG1PP50
 Misc Info: SERIAL DILUTION
 Vial Number: 3305
 Current Method: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M
 Calibration File: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C
 Last Cal. Update: Aug 11 2009 11:17 am
 Sample Type: SDIL
 Dilution Factor: 10.00

QC Summary:

Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\145AREF.D\145AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01 ppb	173.20	0.00	157.5	90 - 110	
51 V	72	1	-4.74 ppb	27.41	-5.89	80.4	90 - 110	
52 Cr	72	1	209.10 ppb	2.09	200.20	104.4	90 - 110	
55 Mn	72	1	3.99 ppb	1.35	3.76	106.3	90 - 110	
59 Co	72	1	0.07 ppb	7.44	0.05	137.7	90 - 110	
60 Ni	72	1	0.36 ppb	7.71	0.20	182.1	90 - 110	
63 Cu	72	1	0.07 ppb	27.15	0.06	131.4	90 - 110	
66 Zn	72	1	0.34 ppb	3.20	0.12	275.1	90 - 110	
75 As	72	1	2.15 ppb	1.39	2.08	103.6	90 - 110	
78 Se	72	1	0.59 ppb	15.55	0.19	310.4	90 - 110	
95 Mo	72	1	0.13 ppb	14.27	0.21	60.7	90 - 110	
107 Ag	115	1	0.00 ppb	86.62	0.00	156.8	90 - 110	
111 Cd	115	1	0.01 ppb	94.23	0.00	-131.7	90 - 110	
118 Sn	115	1	0.19 ppb	16.09	0.02	1058.0	90 - 110	
121 Sb	115	1	0.01 ppb	28.22	0.01	160.2	90 - 110	
137 Ba	115	1	1.00 ppb	4.46	0.96	104.3	90 - 110	
205 Tl	165	1	0.01 ppb	9.99	0.01	87.7	90 - 110	
208 Pb	165	1	0.03 ppb	3.55	0.02	120.7	90 - 110	
232 Th	165	1	0.20 ppb	9.18	0.19	105.3	90 - 110	
238 U	165	1	0.68 ppb	2.62	0.65	103.9	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	304886	1.09	298913	102.0	30 - 120	
45 Sc	1	1751561	0.53	1771505	98.9	30 - 120	
72 Ge	1	840273	0.94	851994	98.6	30 - 120	
115 In	1	2233781	0.77	2290579	97.5	30 - 120	
165 Ho	1	3301214	0.88	3269618	101.0	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\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 11:23:44

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHG1PP50

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG081009A # 146

Method 6020_

Acquired: 08/11/2009 00:41:00

ICPMS_024

Matrix: AQUEOUS

Calibrated: 08/10/2009 23:51:00

Units: ug/L

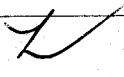
CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9	3	0.35075	0.22270	57.5		*	
7440-62-2	Vanadium	51	-54238	-236.75	-294.30			*	
7440-47-3	Chromium	52	2399990	10455	10010	4.45		*	
7439-96-5	Manganese	55	49257	199.65	187.90	6.25		*	
7440-48-4	Cobalt	59	1120	3.7405	2.7170	37.7		*	
7440-02-0	Nickel	60	1293	18.170	9.9780	82.1		*	
7440-50-8	Copper	63	1243	3.6495	2.7780	31.4		*	
7440-66-6	Zinc	66	757	16.960	6.1640	175		*	
7440-38-2	Arsenic	75	3068	107.50	103.80	3.56	0.21	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	747	29.725	9.5770	210	0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	957	6.4350	10.600	39.3		*	
7440-22-4	Silver	107	53	0.22870	0.14590	56.8		*	
7440-43-9	Cadmium	111	22	0.32770	-0.24880			*	
7440-31-5	Tin	118	1547	9.4800	0.89600	958		*	
7440-36-0	Antimony	121	127	0.66850	0.41720	60.2		*	
7440-39-3	Barium	137	2727	49.880	47.830	4.29		*	
7440-28-0	Thallium	205	228	0.49135	0.56000	12.3		*	
7439-92-1	Lead	208	856	1.3255	1.0980	20.7		*	
7440-61-1	Uranium	238	16907	33.970	32.700	3.88		*	
7440-29-1	Thorium	232	4731	10.135	9.6220	5.33		*	
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%)

AS ce only

Reviewed by: 

Date: 8/11/09

Denver

SAMPLE SPIKE

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 08/11/09 11:23:48

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHG1PZ

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG081009A # 147

Method 6020_

Acquired: 08/11/2009 00:43:00

ICPMS_024

Matrix: AQUEOUS


Calibrated: 08/10/2009 23:51:00

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	92945	204.50	0.02227	102	200		<input checked="" type="checkbox"/>
7440-62-2	Vanadium	51	1770840	166.20	-29.430	83.1	200		<input type="checkbox"/>
7440-47-3	Chromium	52	12859300	1200.0	1001.0	99.5	200	*	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	2466560	216.10	18.790	98.7	200		<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	2637930	194.20	0.27170	97.0	200		<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	594594	191.30	0.99780	95.2	200		<input checked="" type="checkbox"/>
7440-50-8	Copper	63	1400850	189.70	0.27780	94.7	200		<input checked="" type="checkbox"/>
7440-66-6	Zinc	66	281975	195.80	0.61640	97.6	200		<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	280069	214.60	10.380	102	200		<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	45766	202.90	0.95770	101	200		<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	716407	207.00	1.0600	103	200		<input type="checkbox"/>
7440-22-4	Silver	107	441342	45.530	0.01459	91.0	50.0		<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	353875	196.00	-0.02488	98.0	200		<input checked="" type="checkbox"/>
7440-31-5	Tin	118	944944	183.90	0.08960	91.9	200		<input type="checkbox"/>
7440-36-0	Antimony	121	1169940	202.00	0.04172	101	200		<input checked="" type="checkbox"/>
7440-39-3	Barium	137	518739	202.90	4.7830	99.1	200		<input checked="" type="checkbox"/>
7440-28-0	Thallium	205	3178780	186.10	0.05600	93.0	200		<input checked="" type="checkbox"/>
7439-92-1	Lead	208	4281670	183.50	0.10980	91.7	200		<input checked="" type="checkbox"/>
7440-61-1	Uranium	238	4743130	197.00	3.2700	96.9	200		<input checked="" type="checkbox"/>
7440-29-1	Thorium	232	4391	0.19330	0.96220				
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				

AS. Seonly

7440-41-7
7440-62-2
7440-47-3
7439-96-5
7440-48-4
7440-02-0
7440-50-8
7440-66-6
7440-38-2
7782-49-2
7439-98-7
7440-22-4
7440-43-9
7440-31-5
7440-36-0
7440-39-3
7440-28-0
7439-92-1
7440-61-1
7440-29-1
7439-93-2
7440-20-2
7440-74-6
7440-56-4
7440-60-0

Reviewed by:  Date: 8/11/09

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\148_MS.D\148_MS.D#
 Date Acquired: Aug 11 2009 12:46 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG1PS 10X
 Misc Info: MATRIX SPIKE
 Vial Number: 3307
 Current Method: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M
 Calibration File: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C
 Last Cal. Update: Aug 11 2009 11:17 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	4.16	0.02	ppb	2.40	40	10.4	50 - 150	
51 V	72	1	-28.11	-29.43	ppb	12.97	40	-265.9	50 - 150	
52 Cr	72	1	1050.00	1001.00	ppb	1.04	40	100.9	50 - 150	
55 Mn	72	1	23.23	18.79	ppb	0.29	40	39.5	50 - 150	
59 Co	72	1	4.33	0.27	ppb	0.48	40	10.7	50 - 150	
60 Ni	72	1	4.83	1.00	ppb	2.51	40	11.8	50 - 150	
63 Cu	72	1	4.22	0.28	ppb	0.74	40	10.5	50 - 150	
66 Zn	72	1	4.65	0.62	ppb	1.25	40	11.4	50 - 150	
75 As	72	1	15.00	10.38	ppb	0.39	40	29.8	50 - 150	
78 Se	72	1	5.47	0.96	ppb	9.23	40	13.3	50 - 150	
95 Mo	72	1	5.36	1.06	ppb	2.81	40	13.0	50 - 150	
107 Ag	115	1	3.77	0.01	ppb	3.49	40	9.4	50 - 150	
111 Cd	115	1	4.07	-0.02	ppb	5.34	40	10.2	50 - 150	
118 Sn	115	1	0.32	0.09	ppb	8.08	40	0.8	50 - 150	
121 Sb	115	1	4.14	0.04	ppb	1.05	40	10.3	50 - 150	
137 Ba	115	1	9.08	4.78	ppb	1.76	40	20.3	50 - 150	
205 Tl	165	1	3.95	0.06	ppb	1.09	40	9.9	50 - 150	
208 Pb	165	1	3.98	0.11	ppb	1.44	40	9.9	50 - 150	
232 Th	165	1	4.15	0.96	ppb	1.22	40	10.1	50 - 150	
238 U	165	1	7.60	3.27	ppb	1.43	40	17.6	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	296357	0.18	298913	99.1	30 - 120	
45 Sc	1	1737871	1.01	1771505	98.1	30 - 120	
72 Ge	1	801876	0.98	851994	94.1	30 - 120	
115 In	1	2121247	1.84	2290579	92.6	30 - 120	
165 Ho	1	3218159	0.78	3269618	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\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\149 MSD.D\149 MSD.D#	QC Summary:
Date Acquired:	Aug 11 2009 12:49 am	Analytes: Pass
Acq. Method:	NormISIS.M	ISTD: Pass
Operator:	TEL	
Sample Name:	LHG1PD 10X	
Misc Info:	MATRIX SPIKE DUPLICATE	
Vial Number:	3308	
Current Method:	C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C	
Last Cal. Update:	Aug 11 2009 11:17 am	
Sample Type:	MSD	
Dilution Factor:	10.00	

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\148 MS.D\148 MS.D#

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	4.55 ppb	4.23	4.16	8.77	20	
51 V	72	1	-31.67 ppb	14.32	-28.11	-11.91	20	
52 Cr	72	1	1016.00 ppb	0.90	1050.00	3.29	20	
55 Mn	72	1	22.90 ppb	1.21	23.23	1.43	20	
59 Co	72	1	4.31 ppb	1.12	4.32	0.35	20	
60 Ni	72	1	4.94 ppb	3.50	4.83	2.38	20	
63 Cu	72	1	4.17 ppb	2.39	4.22	1.24	20	
66 Zn	72	1	4.65 ppb	1.55	4.65	0.04	20	
75 As	72	1	14.78 ppb	0.93	15.00	1.48	20	
78 Se	72	1	5.38 ppb	1.66	5.47	1.59	20	
95 Mo	72	1	5.28 ppb	1.82	5.36	1.49	20	
107 Ag	115	1	3.86 ppb	0.90	3.77	2.38	20	
111 Cd	115	1	4.17 ppb	2.34	4.07	2.45	20	
118 Sn	115	1	0.15 ppb	19.73	0.32	74.38	20	
121 Sb	115	1	4.11 ppb	2.91	4.14	0.70	20	
137 Ba	115	1	8.91 ppb	1.96	9.08	1.86	20	
205 Tl	165	1	3.97 ppb	2.35	3.95	0.66	20	
208 Pb	165	1	4.03 ppb	2.45	3.97	1.35	20	
232 Th	165	1	4.33 ppb	1.92	4.15	4.30	20	
238 U	165	1	7.53 ppb	2.93	7.59	0.82	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300459	0.38	298913	100.5	30 - 120	
45 Sc	1	1761713	0.96	1771505	99.4	30 - 120	
72 Ge	1	808902	0.89	851994	94.9	30 - 120	
115 In	1	2136314	0.89	2290579	93.3	30 - 120	
165 Ho	1	3222274	2.08	3269618	98.6	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\150SMPL.D\150SMPL.D#
 Date Acquired: Aug 11 2009 12:51 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG21 20X
 Misc Info: D9H040190
 Vial Number: 3309
 Current Method: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M
 Calibration File: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C
 Last Cal. Update: Aug 11 2009 11:17 am
 Sample Type: SA
 Dilution Factor: 20.00
 Autodil Factor: Undiluted
 Final Dil Factor: 20.00

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	0.30	0.01	ppb	86.60	3600	
51 V	72	1	-1,221.00	-61.05	ppb	7.14	3600	
52 Cr	72	1	37,340.00	1867.00	ppb	1.46	3600	
55 Mn	72	1	38.66	1.93	ppb	1.87	3600	
59 Co	72	1	1.28	0.06	ppb	12.84	3600	
60 Ni	72	1	10.10	0.51	ppb	2.46	3600	
63 Cu	72	1	1.62	0.08	ppb	14.06	3600	
66 Zn	72	1	3.44	0.17	ppb	12.90	3600	
75 As	72	1	81.02	4.05	ppb	3.03	3600	
78 Se	72	1	12.12	0.61	ppb	85.72	3600	
95 Mo	72	1	32.44	1.62	ppb	7.03	3600	
107 Ag	115	1	0.15	0.01	ppb	36.04	3600	
111 Cd	115	1	-2.89	-0.14	ppb	50.48	3600	
118 Sn	115	1	1.48	0.07	ppb	9.61	3600	
121 Sb	115	1	0.55	0.03	ppb	27.63	3600	
137 Ba	115	1	68.84	3.44	ppb	1.42	3600	
205 Tl	165	1	0.44	0.02	ppb	14.59	3600	
208 Pb	165	1	0.85	0.04	ppb	4.09	3600	
232 Th	165	1	3.46	0.17	ppb	6.71	1000	
238 U	165	1	43.40	2.17	ppb	0.57	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291191	1.20	298913	97.4	30 - 120	
45 Sc	1	1704318	1.32	1771505	96.2	30 - 120	
72 Ge	1	791982	0.63	851994	93.0	30 - 120	
115 In	1	2092951	0.24	2290579	91.4	30 - 120	
165 Ho	1	3157899	0.71	3269618	96.6	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\151 CCV.D\151 CCV.D#
 Date Acquired: Aug 11 2009 12:54 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: Aug 10 2009 11:54 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	50.31	ppb	1.79	50	100.6	90 - 110
51	V	72	1	47.72	ppb	0.57	50	95.4	90 - 110
52	Cr	72	1	48.34	ppb	0.27	50	96.7	90 - 110
55	Mn	72	1	48.11	ppb	0.40	50	96.2	90 - 110
59	Co	72	1	49.47	ppb	0.66	50	98.9	90 - 110
60	Ni	72	1	50.01	ppb	1.09	50	100.0	90 - 110
63	Cu	72	1	49.70	ppb	0.74	50	99.4	90 - 110
66	Zn	72	1	52.91	ppb	0.63	50	105.8	90 - 110
75	As	72	1	49.12	ppb	0.02	50	98.2	90 - 110
78	Se	72	1	48.81	ppb	3.68	50	97.6	90 - 110
95	Mo	72	1	49.73	ppb	0.70	50	99.5	90 - 110
107	Ag	115	1	49.12	ppb	0.72	50	98.2	90 - 110
111	Cd	115	1	50.09	ppb	0.40	50	100.2	90 - 110
118	Sn	115	1	48.97	ppb	0.36	50	97.9	90 - 110
121	Sb	115	1	49.59	ppb	0.64	50	99.2	90 - 110
137	Ba	115	1	49.21	ppb	0.73	50	98.4	90 - 110
205	Tl	165	1	50.40	ppb	1.40	50	100.8	90 - 110
208	Pb	165	1	50.34	ppb	1.31	50	100.7	90 - 110
232	Th	165	1	49.83	ppb	3.41	50	99.7	90 - 110
238	U	165	1	51.61	ppb	1.72	50	103.2	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	298153	1.60	298913	99.7	30 - 120
45	Sc	1	1730257	0.51	1771505	97.7	30 - 120
72	Ge	1	823986	1.07	851994	96.7	30 - 120
115	In	1	2255073	0.60	2290579	98.4	30 - 120
165	Ho	1	3304129	1.16	3269618	101.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\152_CCB.D\152_CCB.D#
 Date Acquired: Aug 11 2009 12:57 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: Aug 10 2009 11:54 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

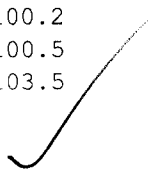
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	173.19	1.00	
51 V	72	1	0.010	ppb	756.86	1.00	
52 Cr	72	1	0.074	ppb	27.75	1.00	
55 Mn	72	1	0.077	ppb	12.16	1.00	
59 Co	72	1	0.014	ppb	33.69	1.00	
60 Ni	72	1	0.033	ppb	8.70	1.00	
63 Cu	72	1	0.015	ppb	93.89	1.00	
66 Zn	72	1	0.514	ppb	6.53	1.00	
75 As	72	1	0.008	ppb	121.93	1.00	
78 Se	72	1	0.477	ppb	100.92	1.00	
95 Mo	72	1	-0.063	ppb	25.38	1.00	
107 Ag	115	1	0.013	ppb	37.30	1.00	
111 Cd	115	1	0.020	ppb	88.08	1.00	
118 Sn	115	1	0.084	ppb	22.47	1.00	
121 Sb	115	1	0.051	ppb	1.64	1.00	
137 Ba	115	1	0.017	ppb	21.12	1.00	
205 Tl	165	1	0.032	ppb	6.00	1.00	
208 Pb	165	1	0.011	ppb	13.50	1.00	
232 Th	165	1	1.203	ppb	14.49	1.00	Fail
238 U	165	1	0.014	ppb	5.01	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299841	0.83	298913	100.3	30 - 120	
45 Sc	1	1753527	0.56	1771505	99.0	30 - 120	
72 Ge	1	853516	0.19	851994	100.2	30 - 120	
115 In	1	2301995	0.44	2290579	100.5	30 - 120	
165 Ho	1	3384139	1.05	3269618	103.5	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\153WASH.D\153WASH.D#
 Date Acquired: Aug 11 2009 01:00 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: Aug 10 2009 11:54 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	1.060 ppb	9.90	1.30	
51 V	72	1	5.022 ppb	1.13	6.50	
52 Cr	72	1	2.068 ppb	0.61	2.60	
55 Mn	72	1	0.987 ppb	1.84	1.30	
59 Co	72	1	1.023 ppb	1.68	1.30	
60 Ni	72	1	2.082 ppb	4.09	2.60	
63 Cu	72	1	2.089 ppb	1.60	2.60	
66 Zn	72	1	10.410 ppb	0.53	13.00	
75 As	72	1	5.031 ppb	1.06	6.50	
78 Se	72	1	5.439 ppb	8.08	6.50	
95 Mo	72	1	1.962 ppb	2.26	2.60	
107 Ag	115	1	5.147 ppb	1.92	6.50	
111 Cd	115	1	1.088 ppb	3.58	1.30	
118 Sn	115	1	10.280 ppb	1.11	13.00	
121 Sb	115	1	1.935 ppb	1.15	2.60	
137 Ba	115	1	1.067 ppb	5.26	1.30	
205 Tl	165	1	1.098 ppb	2.04	1.30	
208 Pb	165	1	1.070 ppb	1.69	1.30	
232 Th	165	1	2.403 ppb	2.53	2.60	
238 U	165	1	1.104 ppb	0.39	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300232	0.96	298913	100.4	30 - 120	
45 Sc	1	1774194	0.66	1771505	100.2	30 - 120	
72 Ge	1	859087	0.54	851994	100.8	30 - 120	
115 In	1	2320421	0.48	2290579	101.3	30 - 120	
165 Ho	1	3355379	1.38	3269618	102.6	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: 09H040190

Client: Northgate Environmental

Batch(es) #: 9217132

Associated Samples: 1

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

Signature/Date:  8/11/09

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>
D9H040190	1	SE	LHG211AC	20090811	6020TOTA	9217132	AG081009A	024
D9H040190	1	AS	LHG211AA	20090811	6020TOTA	9217132	AG081009A	024

**METALS
PREPARATION LOGS
ICP-MS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Batch Number: 9217132

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:

JRW

Prep Date: 08/05/09
Due Date: 08/17/09

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D9H050000 Water	LHH8T	B	Due Date: SDG:	<u>50 mL</u>
D9H050000 Water	LHH8T	C	Due Date: SDG:	<u>50 mL</u>
D9H040187 Water	LHG1P Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040187 Water	LHG1P Total	S	Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040187 Water	LHG1P Total	D	Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040190 Water	LHG21 Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040197 Water	LHG7R Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>
D9H040202 Water	LHG9J Total		Due Date: 08/17/09 SDG:	<u>50 mL</u>

*not 8/7/09
client deleted.*

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
8/10/09*

*✓
8/11/09*

METALS PREP SHEET
SOP: DEN-IP-0014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH # 9217132
PREP DATE: 8/5/2009

ALLIQUOTTED BY: KS
DIGESTED BY: JRW

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-3775-09	6/23/10	100uL	15
2008Cal-2	STD-2637-09	5/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	3

TEMPERATURE CYCLES

Thermometer ID: 4110 Block & Cup #: 3/30

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃	1300	93	1745 + 700 8/5/09 JRW	96
HNO ₃	1730	96	1800	96
HNO ₃				

Samples and QC revolved to: 50 mL Analyst's Initials JRW

COMMENTS:

I certify that all information above is correct and complete.

Signature: [Handwritten Signature]

Date: 8/5/09

**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

Aug-10-2009

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	1,000.0

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026 Volume (ml): 100.00
Date Prep./Opened: 04-01-2009
Date Expires(1): 12-01-2009 (1 Year)
pipette: Met 21

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Se	1,000.0	1.0000

STD3611-09, ICP-MS 1ppm Sn/Zn Analyst: DIAZL
 Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 10.000
 Date Prep./Opened: 06-16-2009
 Date Expires(1): 10-01-2009 (1 Year)

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
1000 Zn	10.000	1.0000

Parent Std No.: STD3610-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000
 Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	10.000	1.0000

STD4601-09, ICP-MS (024) INT STD BRC Analyst: DIAZL
 Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 250.00
 Date Prep./Opened: 08-03-2009
 Date Expires(1): 11-10-2009 (1 Year)
 Date Expires(2): 12-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20

Parent Std No.: STD1469-09, Germanium Stock Aliquot Amount (ml): 0.7500
 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	3,000.0

Parent Std No.: STD1972-09, Lithium 6 Stock Aliquot Amount (ml): 1.0000
 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	4,000.0

Parent Std No.: STD1973-09, Indium Stock Aliquot Amount (ml): 0.2500
 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	1,000.0

Parent Std No.: STD6317-08, Scandium Stock Aliquot Amount (ml): 0.5000
 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	2,000.0

Parent Std No.: STD6318-08, Holmium Stock Aliquot Amount (ml): 0.2500
 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	1,000.0

STD4712-09, ICP-MS BLANK

Solvent: Water
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 09-10-2009 (1 Month)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Analyst: DIAZL
 Volume (ml): 1,000.0

Parent Std No.: STD4711-09, NITRIC ACID Aliquot Amount (ml): 50.000

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
HNO3	100.00	5.0000

STD4713-09, ICP-MS 10 ppm Sn

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 03-01-2010 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 21 and Met 8

Analyst: DIAZL
 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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	10.000

STD4714-09, ICP-MS 100 ppb cal

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 08-11-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20

Analyst: DIAZL
 Volume (ml): 50.000

Parent Std No.: STD3773-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
------------------	----------------------------	--------------------------

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.: STD3862-09, Iron Stock

Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	5,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn

Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4715-09, ICP-MS CCV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 100.00

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ag	20.000	50.000
Al	20.000	50.000
As	20.000	50.000
Ba	20.000	50.000
Be	20.000	50.000
Cd	20.000	50.000
Co	20.000	50.000
Cr	20.000	50.000
Cu	20.000	50.000
Mn	20.000	50.000
Ni	20.000	50.000

Pb	20.000	50.000
Se	20.000	50.000
Th	20.000	50.000
Tl	20.000	50.000
U	20.000	50.000
V	20.000	50.000
Zn	20.000	50.000

Parent Std No.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	50.000
Sb	20.000	50.000

Parent Std No.: STD3862-09, Iron Stock Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	2,500.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	50.000

STD4716-09, ICP-MS RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 10.000

Parent Std No.: STD3611-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1.0000	0.0090
1000 Zn	1.0000	0.0090

Parent Std No.: STD4714-09, ICP-MS 100 ppb cal Aliquot Amount (ml): 0.1000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 08-11-2009

<u>Component</u>	<u>Initial Conc (ug/L)</u>	<u>Final Conc (mg/L)</u>
Mo	100.00	0.0010
Sb	100.00	0.0010
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
Fe	5,000.0	0.0500
Sn	100.00	0.0010

STD4717-09, ICP-MS AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (2 Days)
 pipettes: Met 20 and Met 8

Volume (ml): 10.000

Parent Std No.: STD4716-09, ICP-MS RL STD

Aliquot Amount (ml): 2.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	0.0090	0.0018
1000 Zn	0.0090	0.0018
Mo	0.0010	0.0002
Sb	0.0010	0.0002
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
Fe	0.0500	0.0100
Sn	0.0010	0.0002

STD4718-09, ICP-MS ICSA

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 09-10-2009 (1 Month)
 Date Expires(2): 08-01-2010 (None)
 pipettes: Met 8

Volume (ml): 50.000

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 5.0000
 Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

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

STD4719-09, ICP-MS ICSAB

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (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.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.0500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/L)</u>
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.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4720-09, ICPMS LR STD 1000 ppb

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20 and Met 8

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	1,000.0
Sb	20.000	1,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	1,000.0

STD4721-09, ICPMS ICV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/L)</u>
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

STD4722-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 50.000

Parent Std No.: STD1853-09, 1 mg/l Se

Aliquot Amount (ml): 0.1000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Se	1.0000	0.0020

STD4723-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 05-01-2010 (None)
 pipettes: Met 20

Volume (ml): 100.00

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	0.2000	2.0000
Sb	0.2000	2.0000
Sn	1.0000	10.000

Parent Std No.: STD3108-09, ICP-MS BRC LLCCV 1

Aliquot Amount (ml): 1.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Nb	4.0000	40.000
Pd	0.1000	1.0000
Pt	0.1000	1.0000
W	0.5000	5.0000

Reviewed By:

LRD 08/10/2009

File
AG081009A

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
3	Cal Blank				1.0 08/10/09 18:06		<input type="checkbox"/>
4	100 ppb				1.0 08/10/09 18:09		<input type="checkbox"/>
5	ICV				1.0 08/10/09 18:12		<input type="checkbox"/>
6	RLIV				1.0 08/10/09 18:15		<input type="checkbox"/>
7	ICB				1.0 08/10/09 18:17		<input type="checkbox"/>
8	RL STD				1.0 08/10/09 18:20		<input type="checkbox"/>
9	AFCEE RL				1.0 08/10/09 18:23		<input type="checkbox"/>
10	ALTSe				1.0 08/10/09 18:26		<input type="checkbox"/>
11	ICSA				1.0 08/10/09 18:28		<input type="checkbox"/>
12	ICSAB				1.0 08/10/09 18:31		<input type="checkbox"/>
13	RINSE				1.0 08/10/09 18:34		<input type="checkbox"/>
14	LR				1.0 08/10/09 18:36		<input type="checkbox"/>
15	RINSE				1.0 08/10/09 18:39		<input type="checkbox"/>
16	CCV				1.0 08/10/09 18:42		<input type="checkbox"/>
17	CCB				1.0 08/10/09 18:45		<input type="checkbox"/>
18	RLCV				1.0 08/10/09 18:47		<input type="checkbox"/>
19	LG9KP	D9G300166-1	9215482	04	1.0 08/10/09 18:50	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
20	CCV				1.0 08/10/09 18:53		<input type="checkbox"/>
21	CCB				1.0 08/10/09 18:55		<input type="checkbox"/>
22	RLCV				1.0 08/10/09 18:58		<input type="checkbox"/>
23	LG8F7	D9G290252-1	9212201	46	1.0 08/10/09 19:01		<input type="checkbox"/>
24	LG8F7P5	D9G290252	9212201		5.0 08/10/09 19:04		<input type="checkbox"/>
25	LG8F7Z	D9G290252-1	9212201		1.0 08/10/09 19:06		<input type="checkbox"/>
26	LG8F7S	D9G290252-1	9212201	46	1.0 08/10/09 19:09		<input type="checkbox"/>
27	LG8F7D	D9G290252-1	9212201	46	1.0 08/10/09 19:12		<input type="checkbox"/>
28	CCV				1.0 08/10/09 19:15		<input type="checkbox"/>
29	CCB				1.0 08/10/09 19:17		<input type="checkbox"/>
30	RLCV				1.0 08/10/09 19:20		<input type="checkbox"/>
31	LHFL0B	D9H030000	9215265	46	1.0 08/10/09 19:23		<input type="checkbox"/>
32	LHFL0C	D9H030000	9215265	46	1.0 08/10/09 19:26		<input type="checkbox"/>
33	LHA17	D9G300337-1	9215265	46	1.0 08/10/09 19:28	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
34	CCV				1.0 08/10/09 19:31		<input type="checkbox"/>
35	CCB				1.0 08/10/09 19:34		<input type="checkbox"/>
36	RLCV				1.0 08/10/09 19:37		<input type="checkbox"/>
37	LG86WB	D9G300000	9211083	04	1.0 08/10/09 19:39		<input type="checkbox"/>
38	LG86WC	D9G300000	9211083	04	1.0 08/10/09 19:42		<input type="checkbox"/>
39	LG8K3	D9G290261-1	9211083	04	1.0 08/10/09 19:45		<input type="checkbox"/>
40	LG8LE	D9G290261-3	9211083	04	1.0 08/10/09 19:48		<input type="checkbox"/>
41	LG8LF	D9G290261-4	9211083	04	1.0 08/10/09 19:50		<input type="checkbox"/>
42	LG8LH	D9G290261-5	9211083	04	1.0 08/10/09 19:53		<input type="checkbox"/>
43	LG8LJ	D9G290261-6	9211083	04	1.0 08/10/09 19:56		<input type="checkbox"/>
44	LG8LK	D9G290261-7	9211083	04	1.0 08/10/09 19:59		<input type="checkbox"/>
45	CCV				1.0 08/10/09 20:01		<input type="checkbox"/>
46	CCB				1.0 08/10/09 20:04		<input type="checkbox"/>
47	RLCV				1.0 08/10/09 20:07		<input type="checkbox"/>
48	LG8LKP5	D9G290261	9211083		5.0 08/10/09 20:10		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	LG8LKZ	D9G290261-7	9211083		1.0	08/10/09 20:12	<input type="checkbox"/>
50	LG8LKS	D9G290261-7	9211083	04	1.0	08/10/09 20:15	<input type="checkbox"/>
51	LG8LKD	D9G290261-7	9211083	04	1.0	08/10/09 20:18	<input type="checkbox"/>
52	LG8LL	D9G290261-8	9211083	04	1.0	08/10/09 20:20	<input type="checkbox"/>
53	LG8LM	D9G290261-9	9211083	04	1.0	08/10/09 20:23	<input type="checkbox"/>
54	LG8LN	D9G290261-10	9211083	04	1.0	08/10/09 20:26	<input type="checkbox"/>
55	LG8LP	D9G290261-11	9211083	04	1.0	08/10/09 20:29	<input type="checkbox"/>
56	CCV				1.0	08/10/09 20:32	<input type="checkbox"/>
57	CCB				1.0	08/10/09 20:34	<input type="checkbox"/>
58	RLCV				1.0	08/10/09 20:37	<input type="checkbox"/>
59	LG7LLB	D9G290000	9210208	46	1.0	08/10/09 20:40	<input type="checkbox"/>
60	LG7LLC	D9G290000	9210208	46	1.0	08/10/09 20:42	<input type="checkbox"/>
61	LG3FP	D9G240333-2	9210209	U1	1.0	08/10/09 20:45	<input type="checkbox"/>
62	LG3FR	D9G240333-3	9210209	U1	1.0	08/10/09 20:48	<input type="checkbox"/>
63	LG3FRP5	D9G240333	9210209		5.0	08/10/09 20:51	<input type="checkbox"/>
64	LG3FRZ	D9G240333-3	9210209		1.0	08/10/09 20:53	<input type="checkbox"/>
65	LG3FRS	D9G240333-3	9210209	U1	1.0	08/10/09 20:56	<input type="checkbox"/>
66	CCV				1.0	08/10/09 20:59	<input type="checkbox"/>
67	CCB				1.0	08/10/09 21:01	<input type="checkbox"/>
68	RLCV				1.0	08/10/09 21:04	<input type="checkbox"/>
69	LG3FRD	D9G240333-3	9210209	U1	1.0	08/10/09 21:07	<input type="checkbox"/>
70	LG3FV	D9G240333-4	9210208	U1	1.0	08/10/09 21:09	<input type="checkbox"/>
71	LG3FX	D9G240333-5	9210208	U1	1.0	08/10/09 21:12	<input type="checkbox"/>
72	LG6XM	D9G240333-12	9210209		1.0	08/10/09 21:15	<input type="checkbox"/>
73	LG6XV	D9G240333-13	9210209	U1	1.0	08/10/09 21:18	<input type="checkbox"/>
74	LG6XW	D9G240333-14	9210208	U1	1.0	08/10/09 21:20	<input type="checkbox"/>
75	LG6X0	D9G240333-15	9210208	U1	1.0	08/10/09 21:23	<input type="checkbox"/>
76	CCV				1.0	08/10/09 21:26	<input type="checkbox"/>
77	CCB				1.0	08/10/09 21:28	<input type="checkbox"/>
78	RLCV				1.0	08/10/09 21:31	<input type="checkbox"/>
79	RINSE				1.0	08/10/09 21:34	<input type="checkbox"/>
80	RINSE				1.0	08/10/09 21:37	<input type="checkbox"/>
81	RINSE				1.0	08/10/09 21:39	<input type="checkbox"/>
82	RINSE				1.0	08/10/09 21:42	<input type="checkbox"/>
83	RINSE				1.0	08/10/09 21:45	<input type="checkbox"/>
84	RINSE				1.0	08/10/09 21:48	<input type="checkbox"/>
85	Cal Blank				1.0	08/10/09 21:50	<input type="checkbox"/>
86	Cal Blank				1.0	08/10/09 21:53	<input type="checkbox"/>
87	100 ppb				1.0	08/10/09 21:56	<input type="checkbox"/>
88	CCV				1.0	08/10/09 21:58	<input type="checkbox"/>
89	CCB				1.0	08/10/09 22:01	<input type="checkbox"/>
90	RLCV				1.0	08/10/09 22:04	<input type="checkbox"/>
91	ICSA				1.0	08/10/09 22:07	<input type="checkbox"/>
92	ICSAB				1.0	08/10/09 22:09	<input type="checkbox"/>
93	WASH				1.0	08/10/09 22:12	<input type="checkbox"/>
94	CCV				1.0	08/10/09 22:15	<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
95	CCB				1.0 08/10/09 22:18		<input type="checkbox"/>
96	RLCV				1.0 08/10/09 22:20		<input type="checkbox"/>
97	LHFD8B	D9H030000	9215165	MS	1.0 08/10/09 22:23		<input type="checkbox"/>
98	LHFD8C	D9H030000	9215165	MS	1.0 08/10/09 22:26		<input type="checkbox"/>
99	LHEPK	D9H010152-2	9215165	MS	1.0 08/10/09 22:29		<input type="checkbox"/>
100	LHEPKP5	D9H010152	9215165		5.0 08/10/09 22:31		<input type="checkbox"/>
101	LHEPKZ	D9H010152-2	9215165		1.0 08/10/09 22:34		<input type="checkbox"/>
102	LHEPL	D9H010152-3	9215165	MS	1.0 08/10/09 22:37		<input type="checkbox"/>
103	LHEPM	D9H010152-4	9215165	MS	1.0 08/10/09 22:39		<input type="checkbox"/>
104	CCV				1.0 08/10/09 22:42		<input type="checkbox"/>
105	CCB				1.0 08/10/09 22:45		<input type="checkbox"/>
106	RLCV				1.0 08/10/09 22:48		<input type="checkbox"/>
107	LHH8KBF	D9H050000	9217128	MD	1.0 08/10/09 22:51		<input type="checkbox"/>
108	LHH8KCF	D9H050000	9217128	MD	1.0 08/10/09 22:53		<input type="checkbox"/>
109	LHG1RF	D9H040187-2	9217128	MD	1.0 08/10/09 22:56		<input type="checkbox"/>
110	LHG1RP5F	D9H040187	9217128		5.0 08/10/09 22:59		<input type="checkbox"/>
111	LHG1RZF	D9H040187-2	9217128		1.0 08/10/09 23:02		<input type="checkbox"/>
112	LHG1RSF	D9H040187-2	9217128	MD	1.0 08/10/09 23:04		<input type="checkbox"/>
113	LHG1RDF	D9H040187-2	9217128	MD	1.0 08/10/09 23:07		<input type="checkbox"/>
114	CCV				1.0 08/10/09 23:10		<input type="checkbox"/>
115	CCB				1.0 08/10/09 23:13		<input type="checkbox"/>
116	RLCV				1.0 08/10/09 23:15		<input type="checkbox"/>
117	LHH8TB	D9H050000	9217132	MS	1.0 08/10/09 23:18		<input type="checkbox"/>
118	LHH8TC	D9H050000	9217132	MS	1.0 08/10/09 23:21		<input type="checkbox"/>
119	LHG1P 5X	D9H040187-1	9217132	MS	5.0 08/10/09 23:24		<input type="checkbox"/>
120	LHG1PP25	D9H040187	9217132		25.0 08/10/09 23:26		<input type="checkbox"/>
121	RINSE				1.0 08/10/09 23:32		<input type="checkbox"/>
122	RINSE				1.0 08/10/09 23:34		<input type="checkbox"/>
123	RINSE				1.0 08/10/09 23:37		<input type="checkbox"/>
124	RINSE				1.0 08/10/09 23:40		<input type="checkbox"/>
125	RINSE				1.0 08/10/09 23:43		<input type="checkbox"/>
126	RINSE				1.0 08/10/09 23:45		<input type="checkbox"/>
127	Cal Blank				1.0 08/10/09 23:48	<i>Cal Blank did not use.</i>	<input type="checkbox"/>
128	Cal Blank				1.0 08/10/09 23:51		<input type="checkbox"/>
129	100 ppb				1.0 08/10/09 23:54		<input type="checkbox"/>
130	CCV				1.0 08/10/09 23:56		<input type="checkbox"/>
131	CCB				1.0 08/10/09 23:59		<input type="checkbox"/>
132	RLCV				1.0 08/11/09 00:02		<input type="checkbox"/>
133	LHH8KBF	D9H050000	9217128	MD	1.0 08/11/09 00:05		<input type="checkbox"/>
134	LHH8KCF	D9H050000	9217128	MD	1.0 08/11/09 00:07		<input type="checkbox"/>
135	LHG1RF 10X	D9H040187-2	9217128	MD	10.0 08/11/09 00:10		<input type="checkbox"/>
136	LHG1RP50F	D9H040187	9217128		50.0 08/11/09 00:13		<input type="checkbox"/>
137	LHG1RZF	D9H040187-2	9217128		1.0 08/11/09 00:16		<input type="checkbox"/>
138	LHG1RSF 1C	D9H040187-2	9217128	MD	10.0 08/11/09 00:18		<input type="checkbox"/>
139	LHG1RDF 1C	D9H040187-2	9217128	MD	10.0 08/11/09 00:21		<input type="checkbox"/>
140	CCV				1.0 08/11/09 00:24		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
141	CCB				1.0	08/11/09 00:27	<input type="checkbox"/>
142	RLCV				1.0	08/11/09 00:29	<input type="checkbox"/>
143	LHH8TB	D9H050000	9217132	MS	1.0	08/11/09 00:32	<input type="checkbox"/>
144	LHH8TC	D9H050000	9217132	MS	1.0	08/11/09 00:35	<input type="checkbox"/>
145	LHG1P 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:38	<input type="checkbox"/>
146	LHG1PP50	D9H040187	9217132		50.0	08/11/09 00:41	<input type="checkbox"/>
147	LHG1PZ	D9H040187-1	9217132		1.0	08/11/09 00:43	<input type="checkbox"/>
148	LHG1PS 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:46	<input type="checkbox"/>
149	LHG1PD 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:49	<input type="checkbox"/>
150	LHG21 20X	D9H040190-1	9217132	MS	20.0	08/11/09 00:51	<input type="checkbox"/>
151	CCV				1.0	08/11/09 00:54	<input type="checkbox"/>
152	CCB				1.0	08/11/09 00:57	<input type="checkbox"/>
153	RLCV				1.0	08/11/09 01:00	<input type="checkbox"/>
154	LHQK3B	D9H060000	9218437	MS	1.0	08/11/09 01:03	<input type="checkbox"/>
155	LHQK3C	D9H060000	9218437	MS	1.0	08/11/09 01:05	<input type="checkbox"/>
156	LHJ5J	D9H050230-1	9218437	MS	1.0	08/11/09 01:08	<input type="checkbox"/>
157	LHJ5JP5	D9H050230	9218437		5.0	08/11/09 01:11	<input type="checkbox"/>
158	LHJ5JZ	D9H050230-1	9218437		1.0	08/11/09 01:14	<input type="checkbox"/>
159	LHJ5JS	D9H050230-1	9218437	MS	1.0	08/11/09 01:16	<input type="checkbox"/>
160	LHJ5JD	D9H050230-1	9218437	MS	1.0	08/11/09 01:19	<input type="checkbox"/>
161	LHJ51	D9H050234-1	9218437	MS	1.0	08/11/09 01:22	<input type="checkbox"/>
162	CCV				1.0	08/11/09 01:25	<input type="checkbox"/>
163	CCB				1.0	08/11/09 01:27	<input type="checkbox"/>
164	RLCV				1.0	08/11/09 01:30	<input type="checkbox"/>
165	RINSE				1.0	08/11/09 01:33	<input type="checkbox"/>
166	RINSE				1.0	08/11/09 01:35	<input type="checkbox"/>
167	RINSE				1.0	08/11/09 01:38	<input type="checkbox"/>
168	RINSE				1.0	08/11/09 01:41	<input type="checkbox"/>
169	RINSE				1.0	08/11/09 01:44	<input type="checkbox"/>
170	RINSE				1.0	08/11/09 01:46	<input type="checkbox"/>
171	Cal Blank				1.0	08/11/09 01:49	<input type="checkbox"/>
172	Cal Blank				1.0	08/11/09 01:52	<input type="checkbox"/>
173	100 ppb				1.0	08/11/09 01:55	<input type="checkbox"/>
174	CCV				1.0	08/11/09 01:57	<input type="checkbox"/>
175	CCB				1.0	08/11/09 02:00	<input type="checkbox"/>
176	RLCV				1.0	08/11/09 02:03	<input type="checkbox"/>
177	LHT80BF	D9H080000	9220058	MD	1.0	08/11/09 02:06	<input type="checkbox"/>
178	LHT80CF	D9H080000	9220058	MD	1.0	08/11/09 02:08	<input type="checkbox"/>
179	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:11	<input type="checkbox"/>
180	LHQGCP5F	D9H060361	9220058		5.0	08/11/09 02:14	<input type="checkbox"/>
181	LHQGCZF	D9H060361-2	9220058		1.0	08/11/09 02:17	<input type="checkbox"/>
182	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:19	<input type="checkbox"/>
183	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:22	<input type="checkbox"/>
184	CCV				1.0	08/11/09 02:25	<input type="checkbox"/>
185	CCB				1.0	08/11/09 02:28	<input type="checkbox"/>
186	RLCV				1.0	08/11/09 02:30	<input type="checkbox"/>

TEL 8/11/09

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
187	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:33	<input type="checkbox"/>
188	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:36	<input type="checkbox"/>
189	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:39	<input type="checkbox"/>
190	CCV				1.0	08/11/09 02:41	<input type="checkbox"/>
191	CCB				1.0	08/11/09 02:44	<input type="checkbox"/>
192	RLCV				1.0	08/11/09 02:47	<input type="checkbox"/>
193	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:50	<input type="checkbox"/>
194	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:52	<input type="checkbox"/>
195	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:55	<input type="checkbox"/>
196	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:58	<input type="checkbox"/>
197	CCV				1.0	08/11/09 03:01	<input type="checkbox"/>
198	CCB				1.0	08/11/09 03:04	<input type="checkbox"/>
199	RLCV				1.0	08/11/09 03:06	<input type="checkbox"/>
200	LHLPQ	D9H060174-1	9220029	MS	1.0	08/11/09 03:09	<input type="checkbox"/>
201	LHLP9	D9H060174-2	9220029	MS	1.0	08/11/09 03:12	<input type="checkbox"/>
202	LHLQF	D9H060174-3	9220029	MS	1.0	08/11/09 03:15	<input type="checkbox"/>
203	LHLQG	D9H060174-4	9220029	MS	1.0	08/11/09 03:17	<input type="checkbox"/>
204	LHLQH	D9H060174-5	9220029	MS	1.0	08/11/09 03:20	<input type="checkbox"/>
205	LHLQJ	D9H060174-6	9220029	MS	1.0	08/11/09 03:23	<input type="checkbox"/>
206	CCV				1.0	08/11/09 03:26	<input type="checkbox"/>
207	CCB				1.0	08/11/09 03:29	<input type="checkbox"/>
208	RLCV				1.0	08/11/09 03:31	<input type="checkbox"/>
209	LHREN	D9H070161-1	9220029	MS	1.0	08/11/09 03:34	<input type="checkbox"/>
210	LHREN5	D9H070161	9220029		5.0	08/11/09 03:37	<input type="checkbox"/>
211	LHRENT	D9H070161-1	9220029		1.0	08/11/09 03:40	<input type="checkbox"/>
212	LHRENS	D9H070161-1	9220029	MS	1.0	08/11/09 03:42	<input type="checkbox"/>
213	LHREND	D9H070161-1	9220029	MS	1.0	08/11/09 03:45	<input type="checkbox"/>
214	LHRFD	D9H070161-2	9220029	MS	1.0	08/11/09 03:48	<input type="checkbox"/>
215	LHRFF	D9H070161-3	9220029	MS	1.0	08/11/09 03:51	<input type="checkbox"/>
216	LHRGP	D9H070161-4	9220029	MS	1.0	08/11/09 03:53	<input type="checkbox"/>
217	CCV				1.0	08/11/09 03:56	<input type="checkbox"/>
218	CCB				1.0	08/11/09 03:59	<input type="checkbox"/>
219	RLCV				1.0	08/11/09 04:02	<input type="checkbox"/>
220	LHRGR	D9H070161-5	9220029	MS	1.0	08/11/09 04:05	<input type="checkbox"/>
221	LHRGV	D9H070161-6	9220029	MS	1.0	08/11/09 04:07	<input type="checkbox"/>
222	LHRGW	D9H070161-7	9220029	MS	1.0	08/11/09 04:10	<input type="checkbox"/>
223	LHRGX	D9H070161-8	9220029	MS	1.0	08/11/09 04:13	<input type="checkbox"/>
224	LHRG1	D9H070161-9	9220029	MS	1.0	08/11/09 04:16	<input type="checkbox"/>
225	LHRG2	D9H070161-10	9220029	MS	1.0	08/11/09 04:19	<input type="checkbox"/>
226	LHRG6	D9H070161-11	9220029	MS	1.0	08/11/09 04:21	<input type="checkbox"/>
227	CCV				1.0	08/11/09 04:24	<input type="checkbox"/>
228	CCB				1.0	08/11/09 04:27	<input type="checkbox"/>
229	RLCV				1.0	08/11/09 04:30	<input type="checkbox"/>
230	RINSE				1.0	08/11/09 04:32	<input type="checkbox"/>
231	RINSE				1.0	08/11/09 04:35	<input type="checkbox"/>
232	RINSE				1.0	08/11/09 04:38	<input type="checkbox"/>

For confirmation only. TEL 8/11/09

TEL 8/11/09 Did not use.

TEL 8/11/09

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
233	RINSE			1.0	08/11/09 04:41		<input type="checkbox"/>
234	RINSE			1.0	08/11/09 04:43		<input type="checkbox"/>
235	RINSE			1.0	08/11/09 04:46		<input type="checkbox"/>
236	Cal Blank			1.0	08/11/09 04:49	<i>8/11/09</i>	<input type="checkbox"/>
237	Cal Blank			1.0	08/11/09 04:52		<input type="checkbox"/>
238	100 ppb			1.0	08/11/09 04:54		<input type="checkbox"/>
239	CCV			1.0	08/11/09 04:57		<input type="checkbox"/>
240	CCB			1.0	08/11/09 05:00		<input type="checkbox"/>
241	RLCV			1.0	08/11/09 05:03		<input type="checkbox"/>
242	LHT3RBF	D9H080000	9220042	MD	1.0	08/11/09 05:05	<input type="checkbox"/>
243	LHT3RCF	D9H080000	9220042	MD	1.0	08/11/09 05:08	<input type="checkbox"/>
244	LHJ0JF	D9H050209-1	9220042	MD	1.0	08/11/09 05:11	<input type="checkbox"/>
245	LHJ02F	D9H050209-2	9220042	MD	1.0	08/11/09 05:14	<input type="checkbox"/>
246	LHJ02P5F	D9H050209	9220042		5.0	08/11/09 05:17	<input type="checkbox"/>
247	LHJ02ZF	D9H050209-2	9220042		1.0	08/11/09 05:19	<input type="checkbox"/>
248	LHJ02SF	D9H050209-2	9220042	MD	1.0	08/11/09 05:22	<input type="checkbox"/>
249	LHJ02DF	D9H050209-2	9220042	MD	1.0	08/11/09 05:25	<input type="checkbox"/>
250	LHKEWF	D9H050209-4	9220042	MD	1.0	08/11/09 05:28	<input type="checkbox"/>
251	CCV			1.0	08/11/09 05:30		<input type="checkbox"/>
252	CCB			1.0	08/11/09 05:33		<input type="checkbox"/>
253	RLCV			1.0	08/11/09 05:36		<input type="checkbox"/>
254	LHT4NB	D9H080000	9220047	MS	1.0	08/11/09 05:39	<input type="checkbox"/>
255	LHT4NC	D9H080000	9220047	MS	1.0	08/11/09 05:42	<input type="checkbox"/>
256	LHJ08	D9H050209-3	9220047	MS	1.0	08/11/09 05:44	<input type="checkbox"/>
257	LHKE1	D9H050209-5	9220047	MS	1.0	08/11/09 05:47	<input type="checkbox"/>
258	LHKE1P5	D9H050209	9220047		5.0	08/11/09 05:50	<input type="checkbox"/>
259	LHKE1Z	D9H050209-5	9220047		1.0	08/11/09 05:53	<input type="checkbox"/>
260	LHKE1S	D9H050209-5	9220047	MS	1.0	08/11/09 05:55	<input type="checkbox"/>
261	LHKE1D	D9H050209-5	9220047	MS	1.0	08/11/09 05:58	<input type="checkbox"/>
262	CCV			1.0	08/11/09 06:01		<input type="checkbox"/>
263	CCB			1.0	08/11/09 06:04		<input type="checkbox"/>
264	RLCV			1.0	08/11/09 06:06		<input type="checkbox"/>
265	LHT9RB	D9H080000	9220064	04	1.0	08/11/09 06:09	<input type="checkbox"/>
266	LHT9RC	D9H080000	9220064	04	1.0	08/11/09 06:12	<input type="checkbox"/>
267	LHJGD	D9H050137-5	9220064	04	1.0	08/11/09 06:15	<input type="checkbox"/>
268	LHJGDP5	D9H050137	9220064		5.0	08/11/09 06:18	<input type="checkbox"/>
269	LHJGDZ	D9H050137-5	9220064		1.0	08/11/09 06:20	<input type="checkbox"/>
270	LHJGDS	D9H050137-5	9220064	04	1.0	08/11/09 06:23	<input type="checkbox"/>
271	LHJGDD	D9H050137-5	9220064	04	1.0	08/11/09 06:26	<input type="checkbox"/>
272	LHR5A	D9H070252-1	9220064	04	1.0	08/11/09 06:29	<input type="checkbox"/>
273	CCV			1.0	08/11/09 06:31		<input type="checkbox"/>
274	CCB			1.0	08/11/09 06:34		<input type="checkbox"/>
275	RLCV			1.0	08/11/09 06:37		<input type="checkbox"/>
276	LHT0GB	D9H080000	9220033	MS	1.0	08/11/09 06:40	<input type="checkbox"/>
277	LHT0GC	D9H080000	9220033	MS	1.0	08/11/09 06:43	<input type="checkbox"/>
278	LHT0GB	D9H060214-1	9220033	MS	1.0	08/11/09 06:45	<input type="checkbox"/>

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

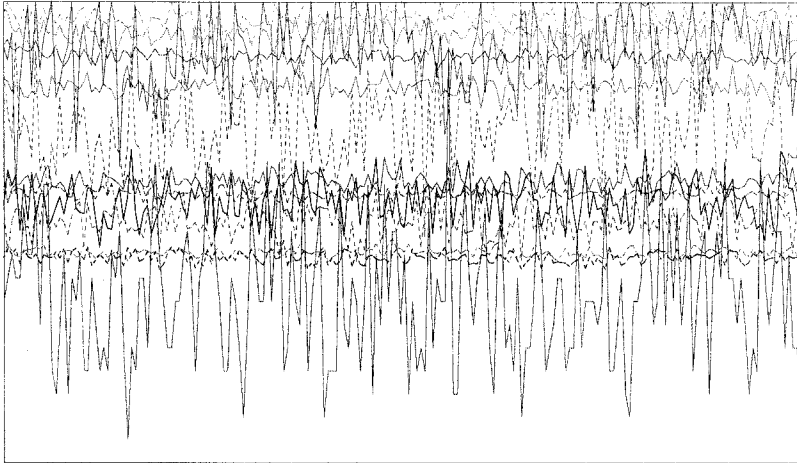
Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
279	LHMLH	D9H060214-2	9220033	MS	1.0	08/11/09 06:48	<input type="checkbox"/>
280	LHMN6	D9H060214-3	9220033	MS	1.0	08/11/09 06:51	<input type="checkbox"/>
281	LHTDQ	D9H070289-1	9220033	MS	1.0	08/11/09 06:54	<input type="checkbox"/>
282	LHTDW	D9H070289-2	9220033	MS	1.0	08/11/09 06:57	<input type="checkbox"/>
283	CCV				1.0	08/11/09 06:59	<input type="checkbox"/>
284	CCB				1.0	08/11/09 07:02	<input type="checkbox"/>
285	RLCV				1.0	08/11/09 07:05	<input type="checkbox"/>
286	LHTD0	D9H070289-3	9220033	MS	1.0	08/11/09 07:08	<input type="checkbox"/>
287	LHTD0P5	D9H070289	9220033		5.0	08/11/09 07:10	<input type="checkbox"/>
288	LHTD0Z	D9H070289-3	9220033		1.0	08/11/09 07:13	<input type="checkbox"/>
289	LHTD0S	D9H070289-3	9220033	MS	1.0	08/11/09 07:16	<input type="checkbox"/>
290	LHTD0D	D9H070289-3	9220033	MS	1.0	08/11/09 07:19	<input type="checkbox"/>
291	LHTD1	D9H070289-4	9220033	MS	1.0	08/11/09 07:22	<input type="checkbox"/>
292	CCV				1.0	08/11/09 07:24	<input type="checkbox"/>
293	CCB				1.0	08/11/09 07:27	<input type="checkbox"/>
294	RLCV				1.0	08/11/09 07:30	<input type="checkbox"/>

Ref 8/11/09 Did not use

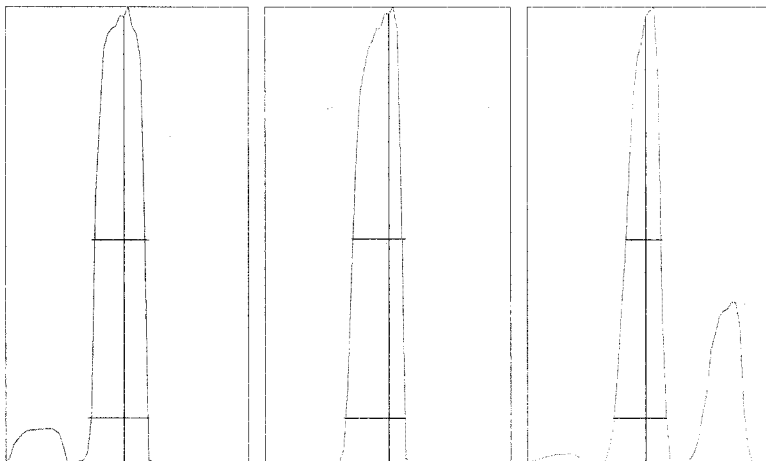
Tune Report

Tune File : NORM.U
 Comment :



Integration Time: 0.1000 sec
 Sampling Period: 1.5300 sec
 n: 200
 Oxide: 156/140 1.280%
 Doubly Charged: 70/140 1.306%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1277.0	1212.6	3.29	2.10
7	20,000	16661.0	16295.0	2.25	1.60
59	20,000	18792.0	18605.1	2.34	0.90
63	100	91.0	90.0	11.00	1.10
70	500	302.0	283.2	7.74	1.50
75	20	2.0	7.2	40.14	1.20
78	500	273.0	260.8	6.33	1.50
89	50,000	22278.0	22756.3	1.97	2.30
115	20,000	19390.0	19268.7	1.88	2.60
118	100	77.0	72.2	12.54	2.60
137	5,000	2253.0	2223.9	2.70	2.80
205	20,000	11452.0	11648.2	1.84	3.60
238	20,000	17180.0	17622.9	1.55	4.60
156/140	2	1.240%	1.301%	7.97	
70/140	2	1.528%	1.441%	7.98	



m/z:	7	89	205
Height:	16,281	23,001	11,900
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.65	0.45
W-10%:	0.7500	0.7500	0.6500

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
Smpl Depth : 7.5 mm
Torch-H : -0.8 mm
Torch-V : -0.3 mm
Carrier Gas : 0.83 L/min
Makeup Gas : 0.23 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 : -34 V
Omega Lens-ce : 1 V
Cell Entrance : -30 V
QP Focus : 7 V
Cell Exit : -30 V

===Octopole Parameters===

OctP RF : 180 V
OctP Bias : -18 V

===Q-Pole Parameters===

AMU Gain : 133
AMU Offset : 123
Axis Gain : 1.0006
Axis Offset : -0.03
QP Bias : -1 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: Aug 10 2009 05:25 pm

Mass[amu]	Element	P/A Factor
6	Li	0.059224
7	(Li)	Sensitivity too low
9	Be	0.065939
45	Sc	0.077958
51	V	0.079670
52	Cr	0.081495
53	(Cr)	Sensitivity too low
55	Mn	0.082881
59	Co	0.084650
60	Ni	0.085888
63	Cu	0.087500
66	Zn	0.087183
72	Ge	0.086826
75	As	0.086085
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
95	Mo	0.087962
98	(Mo)	0.087439
99	(Mo)	0.088211
106	(Cd)	0.090424
107	Ag	Sensitivity too low
108	(Cd)	0.090963
111	Cd	0.090902
114	Cd	0.090659
115	In	0.089830
118	Sn	0.090118
121	Sb	0.090217
137	Ba	Sensitivity too low
165	Ho	Sensitivity too low
205	Tl	0.095902
206	(Pb)	0.095184
207	(Pb)	0.095217
208	Pb	0.094502
232	Th	0.093768
238	U	0.093910

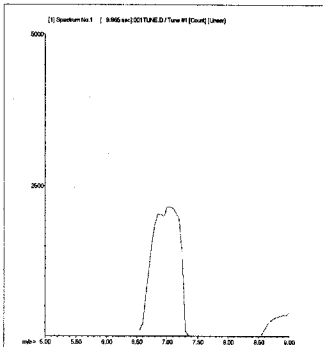
===Detector Parameters===

Discriminator: 8.0 mV
Analog HV: 1720 V
Pulse HV: 1390 V

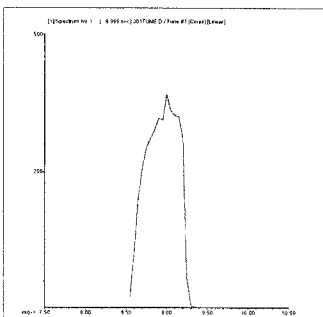
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\001TUNE.D
 Date Acquired: Aug 10 2009 06:01 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

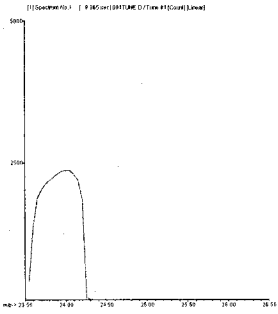
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	23394	23373	23283	23262	23454	23596	0.58	5.00	
9 Be	4040	4033	4013	4046	4048	4060	0.44	5.00	
24 Mg	27733	27886	27740	27593	28101	27346	1.03	5.00	
59 Co	126100	128137	127946	123341	126160	124916	1.61	5.00	
115 In	1508105	1512323	1511531	1497483	1509610	1509575	0.40	5.00	
208 Pb	69191	70426	69382	67952	68926	69270	1.29	5.00	
238 U	126765	128734	126188	125493	127220	126189	1.00	5.00	



7 Li
Mass Calib.
 Actual: 7.05
 Required: 6.90 - 7.10
 Flag:
Peak Width
 Actual: 0.60
 Required: 0.90
 Flag:



9 Be
Mass Calib.
 Actual: 9.05
 Required: 8.90 - 9.10
 Flag:
Peak Width
 Actual: 0.65
 Required: 0.90
 Flag:



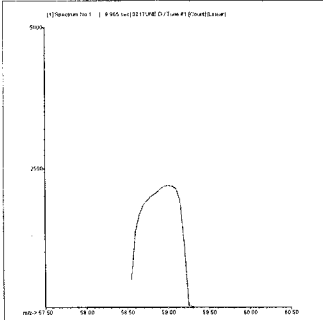
24 Mg

Mass Calib.

Actual: 24.00
Required: 23.90 - 24.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



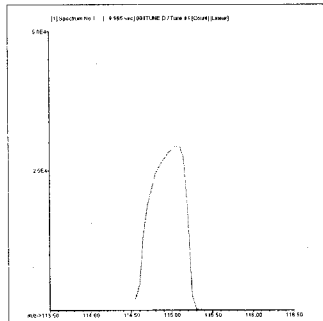
59 Co

Mass Calib.

Actual: 59.00
Required: 58.90 - 59.10
Flag:

Peak Width

Actual: 0.65
Required: 0.90
Flag:



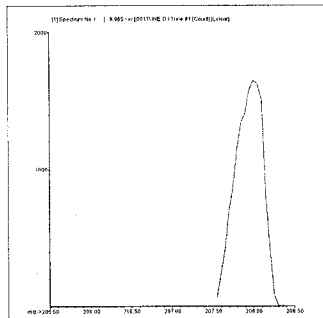
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



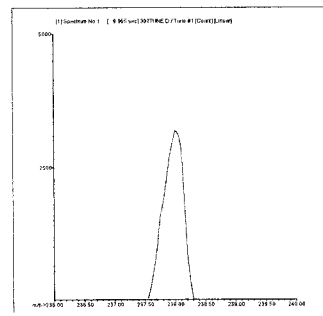
208 Pb

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: 0.60
Required: 0.90
Flag:

Tune Result:

Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\002CALB.D\002CALB.D#
 Date Acquired: Aug 10 2009 06:04 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: Aug 10 2009 06:04 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	354	31.69
52	Cr	72	1	4124	6.07
55	Mn	72	1	670	21.99
59	Co	72	1	70	14.29
60	Ni	72	1	117	21.57
63	Cu	72	1	557	9.22
66	Zn	72	1	2610	2.26
75	As	72	1	71	6.54
78	Se	72	1	770	11.10
95	Mo	72	1	70	37.80
107	Ag	115	1	17	34.64
111	Cd	115	1	30	71.04
118	Sn	115	1	417	12.08
121	Sb	115	1	17	34.64
137	Ba	115	1	41	16.88
205	Tl	165	1	118	27.20
208	Pb	165	1	282	3.80
232	Th	165	1	200	5.00
238	U	165	1	113	5.88

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	392728	0.47
45	Sc	1	2428129	0.41
72	Ge	1	1115573	2.35
115	In	1	2711701	0.96
165	Ho	1	3799176	0.71

Tune File# 1 c:\icpchem\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\AG081009A.B\003CALB.D\003CALB.D#
 Date Acquired: Aug 10 2009 06:06 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: Aug 10 2009 06:04 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	27	1017.20
52	Cr	72	1	3697	2.89
55	Mn	72	1	787	17.81
59	Co	72	1	37	56.77
60	Ni	72	1	467	11.80
63	Cu	72	1	650	9.23
66	Zn	72	1	885	2.73
75	As	72	1	65	15.87
78	Se	72	1	777	16.10
95	Mo	72	1	40	43.30
107	Ag	115	1	3	173.21
111	Cd	115	1	23	56.18
118	Sn	115	1	1010	5.24
121	Sb	115	1	28	48.50
137	Ba	115	1	14	70.50
205	Tl	165	1	81	10.34
208	Pb	165	1	252	5.34
232	Th	165	1	177	8.65
238	U	165	1	26	7.53

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	394687	0.94
45	Sc	1	2446753	1.77
72	Ge	1	1125847	1.05
115	In	1	2719186	2.09
165	Ho	1	3817349	0.25

Tune File# 1 c:\icpchem\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\AG081009A.B\004ICAL.D\004ICAL.D#
 Date Acquired: Aug 10 2009 06:09 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: Aug 10 2009 06:07 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	65842	1.17
51	V	72	1	1535619	1.04
52	Cr	72	1	1532297	0.65
55	Mn	72	1	1633772	1.58
59	Co	72	1	1921710	0.85
60	Ni	72	1	447209	0.74
63	Cu	72	1	1073527	1.19
66	Zn	72	1	208832	1.11
75	As	72	1	179835	0.69
78	Se	72	1	30180	2.46
95	Mo	72	1	467956	0.64
107	Ag	115	1	1296538	0.46
111	Cd	115	1	242181	1.30
118	Sn	115	1	666189	0.27
121	Sb	115	1	760929	0.70
137	Ba	115	1	315160	1.02
205	Tl	165	1	1960793	0.44
208	Pb	165	1	2698115	0.18
232	Th	165	1	2387349	2.74
238	U	165	1	2722294	0.55

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	387659	0.67	394687	98.2	30 - 120
45	Sc	1	2412509	0.93	2446753	98.6	30 - 120
72	Ge	1	1107652	0.44	1125847	98.4	30 - 120
115	In	1	2709456	1.18	2719186	99.6	30 - 120
165	Ho	1	3829303	0.52	3817349	100.3	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\005_ICV.D\005_ICV.D#
 Date Acquired: Aug 10 2009 06:12 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: Aug 10 2009 06:10 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	40.48 ppb	1.00	40	101.2	90 - 110	
51	V	72	39.31 ppb	0.98	40	98.3	90 - 110	
52	Cr	72	39.86 ppb	0.82	40	99.7	90 - 110	
55	Mn	72	39.36 ppb	0.49	40	98.4	90 - 110	
59	Co	72	39.81 ppb	1.21	40	99.5	90 - 110	
60	Ni	72	40.33 ppb	1.20	40	100.8	90 - 110	
63	Cu	72	39.84 ppb	0.87	40	99.6	90 - 110	
66	Zn	72	40.26 ppb	0.39	40	100.7	90 - 110	
75	As	72	39.99 ppb	0.13	40	100.0	90 - 110	
78	Se	72	41.87 ppb	3.08	40	104.7	90 - 110	
95	Mo	72	39.49 ppb	0.68	40	98.7	90 - 110	
107	Ag	115	39.86 ppb	0.43	40	99.7	90 - 110	
111	Cd	115	40.83 ppb	1.84	40	102.1	90 - 110	
118	Sn	115	39.26 ppb	1.02	40	98.2	90 - 110	
121	Sb	115	39.12 ppb	1.36	40	97.8	90 - 110	
137	Ba	115	40.11 ppb	0.69	40	100.3	90 - 110	
205	Tl	165	40.87 ppb	1.42	40	102.2	90 - 110	
208	Pb	165	40.72 ppb	1.25	40	101.8	90 - 110	
232	Th	165	44.35 ppb	1.41	40	110.9	90 - 110	Fail
238	U	165	40.53 ppb	0.56	40	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	386356	0.92	394687	97.9	30 - 120
45	Sc	1	2392521	0.40	2446753	97.8	30 - 120
72	Ge	1	1110457	0.44	1125847	98.6	30 - 120
115	In	1	2702975	0.93	2719186	99.4	30 - 120
165	Ho	1	3868261	0.70	3817349	101.3	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\AG081009A.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\AG081009A.B\006WASH.D\006WASH.D#
 Date Acquired: Aug 10 2009 06:15 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: Aug 10 2009 06:10 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	0.962 ppb	11.83	1.30	
51 V	72	1	5.098 ppb	0.72	6.50	
52 Cr	72	1	2.153 ppb	0.77	2.60	
55 Mn	72	1	1.013 ppb	1.93	1.30	
59 Co	72	1	1.046 ppb	1.77	1.30	
60 Ni	72	1	2.036 ppb	1.65	2.60	
63 Cu	72	1	2.079 ppb	2.63	2.60	
66 Zn	72	1	10.260 ppb	0.96	13.00	
75 As	72	1	5.112 ppb	0.38	6.50	
78 Se	72	1	4.868 ppb	3.66	6.50	
95 Mo	72	1	2.199 ppb	4.71	2.60	
107 Ag	115	1	5.190 ppb	1.63	6.50	
111 Cd	115	1	1.068 ppb	0.77	1.30	
118 Sn	115	1	10.230 ppb	1.10	13.00	
121 Sb	115	1	2.192 ppb	0.80	2.60	
137 Ba	115	1	1.075 ppb	3.75	1.30	
205 Tl	165	1	1.158 ppb	2.36	1.30	
208 Pb	165	1	1.072 ppb	0.99	1.30	
232 Th	165	1	3.344 ppb	3.13	2.60	
238 U	165	1	1.105 ppb	2.11	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389518	0.53	394687	98.7	30 - 120	
45 Sc	1	2376989	0.76	2446753	97.1	30 - 120	
72 Ge	1	1099932	0.58	1125847	97.7	30 - 120	
115 In	1	2703766	0.89	2719186	99.4	30 - 120	
165 Ho	1	3816929	0.48	3817349	100.0	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\AG081009A.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\AG081009A.B\008RLST.D\008RLST.D#
 Date Acquired: Aug 10 2009 06:20 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: Aug 10 2009 06:10 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	1.00 ppb	5.38	1	100.4	50 - 150
51	V	72	1	0.95 ppb	4.78	1	95.5	50 - 150
52	Cr	72	1	1.03 ppb	4.50	1	103.1	50 - 150
55	Mn	72	1	0.99 ppb	2.06	1	99.4	50 - 150
59	Co	72	1	1.02 ppb	1.61	1	102.4	50 - 150
60	Ni	72	1	0.92 ppb	5.43	1	92.3	50 - 150
63	Cu	72	1	1.06 ppb	1.60	1	106.0	50 - 150
66	Zn	72	1	10.99 ppb	2.05	10	109.9	50 - 150
75	As	72	1	1.02 ppb	3.26	1	102.0	50 - 150
78	Se	72	1	1.30 ppb	8.14	1	129.8	50 - 150
95	Mo	72	1	1.03 ppb	3.66	1	102.8	50 - 150
107	Ag	115	1	1.04 ppb	2.89	1	103.6	50 - 150
111	Cd	115	1	1.00 ppb	3.57	1	99.8	50 - 150
118	Sn	115	1	10.84 ppb	1.34	10	108.4	50 - 150
121	Sb	115	1	1.08 ppb	1.30	1	107.6	50 - 150
137	Ba	115	1	1.08 ppb	3.66	1	107.6	50 - 150
205	Tl	165	1	1.08 ppb	3.38	1	107.8	50 - 150
208	Pb	165	1	1.04 ppb	0.90	1	104.2	50 - 150
232	Th	165	1	1.14 ppb	2.04	1	113.7	50 - 150
238	U	165	1	1.07 ppb	1.31	1	107.4	50 - 150

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	381160	1.69	394687	96.6	30 - 120
45	Sc	1	2348126	1.16	2446753	96.0	30 - 120
72	Ge	1	1102409	1.34	1125847	97.9	30 - 120
115	In	1	2670308	0.31	2719186	98.2	30 - 120
165	Ho	1	3800403	0.92	3817349	99.6	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\009AFCE.D\009AFCE.D#
 Date Acquired: Aug 10 2009 06:23 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: Aug 10 2009 06:10 pm
 Sample Type: AFCEEERL
 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	0.21 ppb	37.49	0	104.1	80 - 120
51	V	72	1	0.18 ppb	11.11	0	93.6	80 - 120
52	Cr	72	1	0.20 ppb	4.41	0	95.1	80 - 120
55	Mn	72	1	0.18 ppb	9.10	0	92.5	80 - 120
59	Co	72	1	0.20 ppb	7.26	0	99.2	80 - 120
60	Ni	72	1	0.12 ppb	37.55	0	65.1	80 - 120
63	Cu	72	1	0.21 ppb	5.84	0	97.8	80 - 120
66	Zn	72	1	2.00 ppb	2.60	2	90.9	80 - 120
75	As	72	1	0.21 ppb	3.29	0	102.2	80 - 120
78	Se	72	1	0.57 ppb	37.21	0	218.1	80 - 120
95	Mo	72	1	0.23 ppb	17.06	0	112.2	80 - 120
107	Ag	115	1	0.19 ppb	8.42	0	91.3	80 - 120
111	Cd	115	1	0.18 ppb	11.73	0	92.5	80 - 120
118	Sn	115	1	2.13 ppb	0.61	2	98.2	80 - 120
121	Sb	115	1	0.22 ppb	3.38	0	102.6	80 - 120
137	Ba	115	1	0.20 ppb	2.70	0	94.9	80 - 120
205	Tl	165	1	0.23 ppb	1.38	0	107.1	80 - 120
208	Pb	165	1	0.21 ppb	2.17	0	102.0	80 - 120
232	Th	165	1	0.27 ppb	6.02	0	120.0	80 - 120
238	U	165	1	0.21 ppb	3.48	0	97.7	80 - 120

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	384831	0.38	394687	97.5	30 - 120
45	Sc	1	2381074	1.35	2446753	97.3	30 - 120
72	Ge	1	1108278	1.30	1125847	98.4	30 - 120
115	In	1	2695785	0.35	2719186	99.1	30 - 120
165	Ho	1	3782218	0.41	3817349	99.1	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\
 Tune File#

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\010SMPL.D\010SMPL.D#
 Date Acquired: Aug 10 2009 06:26 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: Aug 10 2009 06:10 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	153.00	3600	
52 Cr	72	1	0.00	0.00	ppb	726.14	3600	
55 Mn	72	1	-0.01	-0.01	ppb	114.24	3600	
59 Co	72	1	0.00	0.00	ppb	103.96	3600	
60 Ni	72	1	-0.03	-0.03	ppb	15.09	3600	
63 Cu	72	1	0.00	0.00	ppb	118.88	3600	
66 Zn	72	1	-0.11	-0.11	ppb	3.22	3600	
75 As	72	1	0.01	0.01	ppb	74.91	3600	
78 Se	72	1	2.14	2.14	ppb	18.71	3600	
95 Mo	72	1	0.01	0.01	ppb	88.11	3600	
107 Ag	115	1	0.00	0.00	ppb	18.18	3600	
111 Cd	115	1	0.00	0.00	ppb	245.41	3600	
118 Sn	115	1	-0.05	-0.05	ppb	21.00	3600	
121 Sb	115	1	0.02	0.02	ppb	14.62	3600	
137 Ba	115	1	0.00	0.00	ppb	77.19	3600	
205 Tl	165	1	0.02	0.02	ppb	18.17	3600	
208 Pb	165	1	0.00	0.00	ppb	132.48	3600	
232 Th	165	1	0.05	0.05	ppb	10.43	1000	
238 U	165	1	0.00	0.00	ppb	1446.10	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	384420	0.66	394687	97.4	30 - 120	
45 Sc	1	2363773	0.07	2446753	96.6	30 - 120	
72 Ge	1	1095031	0.87	1125847	97.3	30 - 120	
115 In	1	2709116	0.72	2719186	99.6	30 - 120	
165 Ho	1	3806731	0.23	3817349	99.7	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\AG081009A.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\AG081009A.B\011ICSA.D\011ICSA.D#
 Date Acquired: Aug 10 2009 06:28 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 06:10 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Summary:

Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	ppb	Flag
9	Be	6	1	0.01 ppb	173.20	1.00	
51	V	72	1	-0.28 ppb	16.13	1.00	
52	Cr	72	1	0.68 ppb	7.15	1.00	
55	Mn	72	1	3.37 ppb	3.01	1.00	
59	Co	72	1	1.52 ppb	1.80	1.00	
60	Ni	72	1	1.33 ppb	7.03	1.00	
63	Cu	72	1	1.39 ppb	1.64	1.00	
66	Zn	72	1	2.60 ppb	3.64	10.00	
75	As	72	1	0.41 ppb	4.62	1.00	
78	Se	72	1	0.04 ppb	875.93	1.00	
95	Mo	72	1	2011.00 ppb	2.30	2000.00	
107	Ag	115	1	0.04 ppb	6.23	1.00	
111	Cd	115	1	0.24 ppb	38.98	1.00	
118	Sn	115	1	0.01 ppb	102.51	10.00	
121	Sb	115	1	0.27 ppb	5.72	1.00	
137	Ba	115	1	0.07 ppb	17.98	1.00	
205	Tl	165	1	0.04 ppb	40.80	1.00	
208	Pb	165	1	0.14 ppb	3.56	1.00	
232	Th	165	1	0.10 ppb	13.38	1.00	
238	U	165	1	0.00 ppb	19.44	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	339249	1.40	394687	86.0	30 - 120
45	Sc	1	2070580	0.61	2446753	84.6	30 - 120
72	Ge	1	927464	2.03	1125847	82.4	30 - 120
115	In	1	2246349	1.22	2719186	82.6	30 - 120
165	Ho	1	3443563	1.20	3817349	90.2	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\AG081009A.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\013SMPL.D\013SMPL.D#
 Date Acquired: Aug 10 2009 06:34 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: Aug 10 2009 06:10 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	173.21	3600	
51 V	72	1	0.00	0.00	ppb	1356.30	3600	
52 Cr	72	1	0.02	0.02	ppb	126.42	3600	
55 Mn	72	1	0.00	0.00	ppb	97.83	3600	
59 Co	72	1	0.01	0.01	ppb	17.25	3600	
60 Ni	72	1	-0.06	-0.06	ppb	24.77	3600	
63 Cu	72	1	0.00	0.00	ppb	68.55	3600	
66 Zn	72	1	0.82	0.82	ppb	5.26	3600	
75 As	72	1	0.01	0.01	ppb	65.52	3600	
78 Se	72	1	0.35	0.35	ppb	98.25	3600	
95 Mo	72	1	1.75	1.75	ppb	4.87	3600	
107 Ag	115	1	0.02	0.02	ppb	59.60	3600	
111 Cd	115	1	0.00	0.00	ppb	178.39	3600	
118 Sn	115	1	-0.02	-0.02	ppb	44.11	3600	
121 Sb	115	1	0.04	0.04	ppb	18.60	3600	
137 Ba	115	1	0.01	0.01	ppb	49.69	3600	
205 Tl	165	1	0.01	0.01	ppb	15.49	3600	
208 Pb	165	1	0.01	0.01	ppb	21.27	3600	
232 Th	165	1	0.96	0.96	ppb	17.84	1000	
238 U	165	1	0.02	0.02	ppb	8.06	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	417953	1.05	394687	105.9	30 - 120	
45 Sc	1	2370217	1.00	2446753	96.9	30 - 120	
72 Ge	1	1125021	0.71	1125847	99.9	30 - 120	
115 In	1	2769043	1.00	2719186	101.8	30 - 120	
165 Ho	1	3993502	0.73	3817349	104.6	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\AG081009A.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\AG081009A.B\015SMPL.D\015SMPL.D#
 Date Acquired: Aug 10 2009 06:39 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: Aug 10 2009 06:10 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	0.07	0.07	ppb	11.29	3600	
51 V	72	1	0.07	0.07	ppb	49.92	3600	
52 Cr	72	1	0.08	0.08	ppb	3.05	3600	
55 Mn	72	1	0.07	0.07	ppb	11.75	3600	
59 Co	72	1	0.08	0.08	ppb	22.22	3600	
60 Ni	72	1	-0.01	-0.01	ppb	189.04	3600	
63 Cu	72	1	0.07	0.07	ppb	14.57	3600	
66 Zn	72	1	0.90	0.90	ppb	4.20	3600	
75 As	72	1	0.12	0.12	ppb	13.74	3600	
78 Se	72	1	0.56	0.56	ppb	13.28	3600	
95 Mo	72	1	0.99	0.99	ppb	7.52	3600	
107 Ag	115	1	0.11	0.11	ppb	9.78	3600	
111 Cd	115	1	0.09	0.09	ppb	18.21	3600	
118 Sn	115	1	1.04	1.04	ppb	13.89	3600	
121 Sb	115	1	0.46	0.46	ppb	3.67	3600	
137 Ba	115	1	0.07	0.07	ppb	29.33	3600	
205 Tl	165	1	0.24	0.24	ppb	12.29	3600	
208 Pb	165	1	0.09	0.09	ppb	17.25	3600	
232 Th	165	1	6.26	6.26	ppb	20.02	1000	
238 U	165	1	0.15	0.15	ppb	1.91	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406521	1.45	394687	103.0	30 - 120	
45 Sc	1	2437916	0.81	2446753	99.6	30 - 120	
72 Ge	1	1134540	0.61	1125847	100.8	30 - 120	
115 In	1	2782594	0.81	2719186	102.3	30 - 120	
165 Ho	1	3984640	0.83	3817349	104.4	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\AG081009A.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\AG081009A.B\016_CCV.D\016_CCV.D#
 Date Acquired: Aug 10 2009 06:42 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: Aug 10 2009 06:10 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	49.23 ppb	1.97	50	98.5	90 - 110	
51	V	72	48.18 ppb	3.03	50	96.4	90 - 110	
52	Cr	72	49.10 ppb	2.47	50	98.2	90 - 110	
55	Mn	72	48.34 ppb	2.30	50	96.7	90 - 110	
59	Co	72	50.75 ppb	1.62	50	101.5	90 - 110	
60	Ni	72	49.33 ppb	1.83	50	98.7	90 - 110	
63	Cu	72	48.69 ppb	2.92	50	97.4	90 - 110	
66	Zn	72	52.56 ppb	1.77	50	105.1	90 - 110	
75	As	72	49.20 ppb	2.24	50	98.4	90 - 110	
78	Se	72	48.36 ppb	4.30	50	96.7	90 - 110	
95	Mo	72	50.11 ppb	1.65	50	100.2	90 - 110	
107	Ag	115	49.41 ppb	0.58	50	98.8	90 - 110	
111	Cd	115	49.05 ppb	0.87	50	98.1	90 - 110	
118	Sn	115	50.05 ppb	1.70	50	100.1	90 - 110	
121	Sb	115	49.82 ppb	1.05	50	99.6	90 - 110	
137	Ba	115	49.79 ppb	0.54	50	99.6	90 - 110	
205	Tl	165	50.63 ppb	1.41	50	101.3	90 - 110	
208	Pb	165	50.26 ppb	0.23	50	100.5	90 - 110	
232	Th	165	52.23 ppb	3.29	50	104.5	90 - 110	
238	U	165	50.28 ppb	1.54	50	100.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398790	1.16	394687	101.0	30 - 120
45	Sc	1	2428065	0.52	2446753	99.2	30 - 120
72	Ge	1	1132154	1.68	1125847	100.6	30 - 120
115	In	1	2783451	0.38	2719186	102.4	30 - 120
165	Ho	1	3944703	1.21	3817349	103.3	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\AG081009A.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\AG081009A.B\017_CCB.D\017_CCB.D#
 Date Acquired: Aug 10 2009 06:45 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: Aug 10 2009 06:10 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

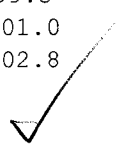
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.029	ppb	50.02	1.00	
51 V	72	1	0.019	ppb	104.60	1.00	
52 Cr	72	1	0.033	ppb	99.12	1.00	
55 Mn	72	1	0.000	ppb	2663.10	1.00	
59 Co	72	1	0.016	ppb	6.13	1.00	
60 Ni	72	1	-0.070	ppb	15.94	1.00	
63 Cu	72	1	0.009	ppb	119.60	1.00	
66 Zn	72	1	-0.124	ppb	10.27	1.00	
75 As	72	1	0.017	ppb	49.87	1.00	
78 Se	72	1	0.100	ppb	304.64	1.00	
95 Mo	72	1	0.179	ppb	6.53	1.00	
107 Ag	115	1	0.018	ppb	20.56	1.00	
111 Cd	115	1	0.001	ppb	1567.90	1.00	
118 Sn	115	1	0.177	ppb	26.58	1.00	
121 Sb	115	1	0.101	ppb	8.06	1.00	
137 Ba	115	1	0.018	ppb	26.37	1.00	
205 Tl	165	1	0.073	ppb	5.05	1.00	
208 Pb	165	1	0.011	ppb	12.50	1.00	
232 Th	165	1	1.499	ppb	14.31	1.00	Fail
238 U	165	1	0.023	ppb	2.40	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406279	0.13	394687	102.9	30 - 120	
45 Sc	1	2409755	0.92	2446753	98.5	30 - 120	
72 Ge	1	1118502	1.15	1125847	99.3	30 - 120	
115 In	1	2746559	0.29	2719186	101.0	30 - 120	
165 Ho	1	3925108	0.26	3817349	102.8	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\AG081009A.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\AG081009A.B\018WASH.D\018WASH.D#
 Date Acquired: Aug 10 2009 06:47 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: Aug 10 2009 06:10 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	1.105 ppb	6.50	1.30	
51 V	72		1	5.087 ppb	3.62	6.50	
52 Cr	72		1	2.163 ppb	2.98	2.60	
55 Mn	72		1	1.000 ppb	2.91	1.30	
59 Co	72		1	1.065 ppb	2.44	1.30	
60 Ni	72		1	2.023 ppb	1.63	2.60	
63 Cu	72		1	2.091 ppb	1.36	2.60	
66 Zn	72		1	10.460 ppb	2.37	13.00	
75 As	72		1	5.273 ppb	1.62	6.50	
78 Se	72		1	5.734 ppb	6.76	6.50	
95 Mo	72		1	2.210 ppb	2.32	2.60	
107 Ag	115		1	5.205 ppb	1.43	6.50	
111 Cd	115		1	1.050 ppb	4.55	1.30	
118 Sn	115		1	10.450 ppb	1.08	13.00	
121 Sb	115		1	2.010 ppb	2.30	2.60	
137 Ba	115		1	1.109 ppb	3.21	1.30	
205 Tl	165		1	1.150 ppb	1.01	1.30	
208 Pb	165		1	1.076 ppb	0.61	1.30	
232 Th	165		1	2.636 ppb	1.22	2.60	
238 U	165		1	1.112 ppb	1.72	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	404611	0.96	394687	102.5	30 - 120	
45 Sc	1	2418551	0.39	2446753	98.8	30 - 120	
72 Ge	1	1116189	1.64	1125847	99.1	30 - 120	
115 In	1	2767098	0.92	2719186	101.8	30 - 120	
165 Ho	1	3902436	1.37	3817349	102.2	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\AG081009A.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.D#
 Date Acquired: Aug 10 2009 09:53 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: Aug 10 2009 09:51 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	359	49.21
52	Cr	72	1	3327	12.19
55	Mn	72	1	673	7.00
59	Co	72	1	63	23.12
60	Ni	72	1	473	1.82
63	Cu	72	1	697	6.65
66	Zn	72	1	5275	0.36
75	As	72	1	61	14.81
78	Se	72	1	797	7.38
95	Mo	72	1	473	9.18
107	Ag	115	1	17	69.77
111	Cd	115	1	-4	468.40
118	Sn	115	1	883	12.90
121	Sb	115	1	41	5.27
137	Ba	115	1	28	7.48
205	Tl	165	1	71	17.08
208	Pb	165	1	277	1.82
232	Th	165	1	177	27.11
238	U	165	1	33	9.30

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	367189	0.76
45	Sc	1	2198650	1.42
72	Ge	1	1047607	1.49
115	In	1	2618639	1.31
165	Ho	1	3698894	0.81

Tune File# 1 c:\icpchem\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\AG081009A.B\087ICAL.D\087ICAL.D#
 Date Acquired: Aug 10 2009 09:56 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: Aug 10 2009 09:54 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	57454	2.68
51	V	72	1384602	1.93
52	Cr	72	1372006	0.28
55	Mn	72	1464416	1.26
59	Co	72	1764191	0.16
60	Ni	72	409818	1.72
63	Cu	72	979076	1.00
66	Zn	72	190440	1.50
75	As	72	169475	1.58
78	Se	72	28790	1.31
95	Mo	72	438801	1.48
107	Ag	115	1212795	1.22
111	Cd	115	227416	1.07
118	Sn	115	638283	0.63
121	Sb	115	733198	0.80
137	Ba	115	310900	0.47
205	Tl	165	1935696	0.85
208	Pb	165	2637712	0.66
232	Th	165	2426931	3.16
238	U	165	2684142	1.00

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357017	0.84	367189	97.2	30 - 120
45	Sc	1	2175000	2.00	2198650	98.9	30 - 120
72	Ge	1	1036228	0.96	1047607	98.9	30 - 120
115	In	1	2589357	0.36	2618639	98.9	30 - 120
165	Ho	1	3695829	0.53	3698894	99.9	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\AG081009A.B\086CALB.D\086CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\088_CCV.D\088_CCV.D#
 Date Acquired: Aug 10 2009 09:58 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: Aug 10 2009 09:56 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	49.65 ppb	0.92	50	99.3	90 - 110	
51	V	72	49.06 ppb	0.95	50	98.1	90 - 110	
52	Cr	72	49.92 ppb	0.60	50	99.8	90 - 110	
55	Mn	72	49.36 ppb	0.14	50	98.7	90 - 110	
59	Co	72	50.34 ppb	0.60	50	100.7	90 - 110	
60	Ni	72	49.67 ppb	0.42	50	99.3	90 - 110	
63	Cu	72	49.63 ppb	0.70	50	99.3	90 - 110	
66	Zn	72	52.10 ppb	0.54	50	104.2	90 - 110	
75	As	72	49.34 ppb	0.43	50	98.7	90 - 110	
78	Se	72	50.04 ppb	4.56	50	100.1	90 - 110	
95	Mo	72	49.69 ppb	0.55	50	99.4	90 - 110	
107	Ag	115	49.28 ppb	0.25	50	98.6	90 - 110	
111	Cd	115	49.24 ppb	0.70	50	98.5	90 - 110	
118	Sn	115	49.32 ppb	0.50	50	98.6	90 - 110	
121	Sb	115	49.29 ppb	0.48	50	98.6	90 - 110	
137	Ba	115	49.29 ppb	0.72	50	98.6	90 - 110	
205	Tl	165	49.61 ppb	2.22	50	99.2	90 - 110	
208	Pb	165	49.80 ppb	0.99	50	99.6	90 - 110	
232	Th	165	51.14 ppb	2.51	50	102.3	90 - 110	
238	U	165	50.39 ppb	1.56	50	100.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351371	1.00	367189	95.7	30 - 120
45	Sc	1	2164138	0.74	2198650	98.4	30 - 120
72	Ge	1	1029321	0.36	1047607	98.3	30 - 120
115	In	1	2597133	0.22	2618639	99.2	30 - 120
165	Ho	1	3706192	0.53	3698894	100.2	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\089_CCB.D\089_CCB.D#
 Date Acquired: Aug 10 2009 10:01 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: Aug 10 2009 09:56 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	0.000	ppb	0.00	1.00	
51 V	72	1	-0.009	ppb	338.45	1.00	
52 Cr	72	1	0.012	ppb	59.28	1.00	
55 Mn	72	1	0.022	ppb	43.47	1.00	
59 Co	72	1	0.010	ppb	28.80	1.00	
60 Ni	72	1	-0.073	ppb	8.59	1.00	
63 Cu	72	1	0.010	ppb	144.48	1.00	
66 Zn	72	1	-2.512	ppb	0.84	1.00	
75 As	72	1	0.021	ppb	33.66	1.00	
78 Se	72	1	0.361	ppb	104.40	1.00	
95 Mo	72	1	0.004	ppb	623.22	1.00	
107 Ag	115	1	0.021	ppb	6.66	1.00	
111 Cd	115	1	0.018	ppb	60.33	1.00	
118 Sn	115	1	0.058	ppb	14.07	1.00	
121 Sb	115	1	0.062	ppb	11.03	1.00	
137 Ba	115	1	0.017	ppb	12.47	1.00	
205 Tl	165	1	0.050	ppb	6.12	1.00	
208 Pb	165	1	0.014	ppb	17.03	1.00	
232 Th	165	1	1.175	ppb	19.44	1.00	Fail
238 U	165	1	0.018	ppb	4.03	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	354938	0.52	367189	96.7	30 - 120	
45 Sc	1	2151415	1.57	2198650	97.9	30 - 120	
72 Ge	1	1014505	0.33	1047607	96.8	30 - 120	
115 In	1	2580961	0.71	2618639	98.6	30 - 120	
165 Ho	1	3627865	0.73	3698894	98.1	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\090WASH.D\090WASH.D#
 Date Acquired: Aug 10 2009 10:04 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: Aug 10 2009 09:56 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	1.015 ppb	16.54	1.30	
51 V	72	1	5.138 ppb	2.71	6.50	
52 Cr	72	1	2.154 ppb	2.58	2.60	
55 Mn	72	1	1.034 ppb	3.82	1.30	
59 Co	72	1	1.063 ppb	0.98	1.30	
60 Ni	72	1	2.069 ppb	2.67	2.60	
63 Cu	72	1	2.077 ppb	4.34	2.60	
66 Zn	72	1	8.295 ppb	0.25	13.00	
75 As	72	1	5.196 ppb	0.91	6.50	
78 Se	72	1	5.418 ppb	18.66	6.50	
95 Mo	72	1	2.025 ppb	0.52	2.60	
107 Ag	115	1	5.220 ppb	3.85	6.50	
111 Cd	115	1	1.108 ppb	1.99	1.30	
118 Sn	115	1	10.370 ppb	3.55	13.00	
121 Sb	115	1	1.946 ppb	3.35	2.60	
137 Ba	115	1	1.029 ppb	4.99	1.30	
205 Tl	165	1	1.117 ppb	0.99	1.30	
208 Pb	165	1	1.077 ppb	3.12	1.30	
232 Th	165	1	2.386 ppb	1.30	2.60	
238 U	165	1	1.118 ppb	1.09	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	357020	1.30	367189	97.2	30 - 120	
45 Sc	1	2160440	1.21	2198650	98.3	30 - 120	
72 Ge	1	1029685	0.36	1047607	98.3	30 - 120	
115 In	1	2599204	1.03	2618639	99.3	30 - 120	
165 Ho	1	3673409	1.01	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\091ICSA.D\091ICSA.D#
 Date Acquired: Aug 10 2009 10:07 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Summary:

Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00 ppb	0.00	1.00
51	V	72	1	-0.25 ppb	33.72	1.00
52	Cr	72	1	0.68 ppb	2.34	1.00
55	Mn	72	1	3.51 ppb	0.92	1.00
59	Co	72	1	1.54 ppb	4.46	1.00
60	Ni	72	1	1.54 ppb	3.35	1.00
63	Cu	72	1	1.42 ppb	2.18	1.00
66	Zn	72	1	0.44 ppb	30.29	10.00
75	As	72	1	0.40 ppb	6.23	1.00
78	Se	72	1	0.69 ppb	56.98	1.00
95	Mo	72	1	2004.00 ppb	1.89	2000.00
107	Ag	115	1	0.04 ppb	16.72	1.00
111	Cd	115	1	0.32 ppb	32.82	1.00
118	Sn	115	1	0.08 ppb	26.70	10.00
121	Sb	115	1	0.28 ppb	3.97	1.00
137	Ba	115	1	0.07 ppb	7.46	1.00
205	Tl	165	1	0.05 ppb	45.56	1.00
208	Pb	165	1	0.13 ppb	2.60	1.00
232	Th	165	1	0.24 ppb	29.64	1.00
238	U	165	1	0.00 ppb	29.69	1.00

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326427	1.11	367189	88.9	30 - 120
45	Sc	1	1913508	1.00	2198650	87.0	30 - 120
72	Ge	1	902523	1.26	1047607	86.2	30 - 120
115	In	1	2206404	0.65	2618639	84.3	30 - 120
165	Ho	1	3333118	1.23	3698894	90.1	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\092ICSB.D\092ICSB.D#
 Date Acquired: Aug 10 2009 10:09 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: Aug 10 2009 09:56 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	99.06	1.64	100	99.1	80 - 120	
51	V	72	1	104.40	0.92	100	104.4	80 - 120	
52	Cr	72	1	101.90	0.77	100	101.9	80 - 120	
55	Mn	72	1	104.20	0.96	100	104.2	80 - 120	
59	Co	72	1	100.30	0.98	100	100.3	80 - 120	
60	Ni	72	1	95.98	1.20	100	96.0	80 - 120	
63	Cu	72	1	92.71	1.33	100	92.7	80 - 120	
66	Zn	72	1	101.10	1.14	100	101.1	80 - 120	
75	As	72	1	104.70	0.73	100	104.7	80 - 120	
78	Se	72	1	113.30	0.82	100	113.3	80 - 120	
95	Mo	72	1	2162.00	1.87	2100	103.0	80 - 120	
107	Ag	115	1	82.22	3.89	100	82.2	80 - 120	
111	Cd	115	1	96.12	2.03	100	96.1	80 - 120	
118	Sn	115	1	100.50	2.06	100	100.5	80 - 120	
121	Sb	115	1	102.50	1.80	100	102.5	80 - 120	
137	Ba	115	1	102.20	1.70	100	102.2	80 - 120	
205	Tl	165	1	94.99	0.97	100	95.0	80 - 120	
208	Pb	165	1	93.26	0.57	100	93.3	80 - 120	
232	Th	165	1	105.90	2.13	100	105.9	80 - 120	
238	U	165	1	99.43	0.45	100	99.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327794	0.59	367189	89.3	30 - 120
45	Sc	1	1916330	0.56	2198650	87.2	30 - 120
72	Ge	1	875267	0.68	1047607	83.5	30 - 120
115	In	1	2211280	1.50	2618639	84.4	30 - 120
165	Ho	1	3358970	0.46	3698894	90.8	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\AG081009A.B\086CALB.D\086CALB.D#

0 :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\AG081009A.B\093WASH.D\093WASH.D#
 Date Acquired: Aug 10 2009 10:12 pm
 Operator: TEL **QC Summary:**
 Sample Name: WASH **Analytes: Pass**
 Misc Info: **ISTD: Pass**
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 09:56 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.006 ppb	173.19	1.30	
51 V	72	1	-0.034 ppb	135.22	6.50	
52 Cr	72	1	0.000 ppb	5464.80	2.60	
55 Mn	72	1	0.019 ppb	10.91	1.30	
59 Co	72	1	0.009 ppb	18.44	1.30	
60 Ni	72	1	-0.069 ppb	6.69	2.60	
63 Cu	72	1	0.016 ppb	51.79	2.60	
66 Zn	72	1	-1.678 ppb	2.09	13.00	
75 As	72	1	0.020 ppb	87.04	6.50	
78 Se	72	1	0.273 ppb	159.00	6.50	
95 Mo	72	1	1.722 ppb	10.74	2.60	
107 Ag	115	1	0.016 ppb	7.48	6.50	
111 Cd	115	1	0.027 ppb	39.87	1.30	
118 Sn	115	1	0.008 ppb	139.77	13.00	
121 Sb	115	1	0.031 ppb	10.67	2.60	
137 Ba	115	1	0.014 ppb	37.96	1.30	
205 Tl	165	1	0.019 ppb	7.24	1.30	
208 Pb	165	1	0.014 ppb	25.78	1.30	
232 Th	165	1	1.029 ppb	17.84	2.60	
238 U	165	1	0.020 ppb	2.81	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	366369	0.31	367189	99.8	30 - 120	
45 Sc	1	2076235	0.60	2198650	94.4	30 - 120	
72 Ge	1	994316	1.14	1047607	94.9	30 - 120	
115 In	1	2560866	0.59	2618639	97.8	30 - 120	
165 Ho	1	3648181	1.84	3698894	98.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\094_CCV.D\094_CCV.D#
 Date Acquired: Aug 10 2009 10:15 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: Aug 10 2009 09:56 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	49.46 ppb	4.16	50	98.9	90 - 110	
51	V	72	48.94 ppb	0.53	50	97.9	90 - 110	
52	Cr	72	50.07 ppb	1.20	50	100.1	90 - 110	
55	Mn	72	49.34 ppb	1.59	50	98.7	90 - 110	
59	Co	72	50.31 ppb	1.34	50	100.6	90 - 110	
60	Ni	72	50.23 ppb	2.45	50	100.5	90 - 110	
63	Cu	72	49.54 ppb	2.01	50	99.1	90 - 110	
66	Zn	72	52.03 ppb	1.37	50	104.1	90 - 110	
75	As	72	49.61 ppb	1.73	50	99.2	90 - 110	
78	Se	72	50.01 ppb	0.38	50	100.0	90 - 110	
95	Mo	72	50.34 ppb	1.73	50	100.7	90 - 110	
107	Ag	115	49.34 ppb	1.02	50	98.7	90 - 110	
111	Cd	115	49.64 ppb	0.95	50	99.3	90 - 110	
118	Sn	115	49.84 ppb	1.63	50	99.7	90 - 110	
121	Sb	115	49.47 ppb	0.88	50	98.9	90 - 110	
137	Ba	115	49.80 ppb	0.36	50	99.6	90 - 110	
205	Tl	165	50.15 ppb	0.99	50	100.3	90 - 110	
208	Pb	165	50.50 ppb	1.80	50	101.0	90 - 110	
232	Th	165	50.90 ppb	3.30	50	101.8	90 - 110	
238	U	165	51.21 ppb	1.74	50	102.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	358196	0.69	367189	97.6	30 - 120
45	Sc	1	2129878	1.22	2198650	96.9	30 - 120
72	Ge	1	1014484	1.02	1047607	96.8	30 - 120
115	In	1	2569748	0.08	2618639	98.1	30 - 120
165	Ho	1	3684571	0.80	3698894	99.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\095_CCB.D\095_CCB.D#
 Date Acquired: Aug 10 2009 10:18 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: Aug 10 2009 09:56 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

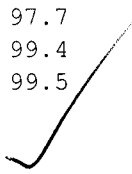
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.028	ppb	125.04	1.00	
51 V	72	1	-0.023	ppb	143.33	1.00	
52 Cr	72	1	-0.002	ppb	923.90	1.00	
55 Mn	72	1	0.028	ppb	32.43	1.00	
59 Co	72	1	0.009	ppb	26.21	1.00	
60 Ni	72	1	-0.067	ppb	9.77	1.00	
63 Cu	72	1	0.012	ppb	106.20	1.00	
66 Zn	72	1	-2.522	ppb	0.45	1.00	
75 As	72	1	0.008	ppb	139.22	1.00	
78 Se	72	1	-0.028	ppb	2465.70	1.00	
95 Mo	72	1	0.131	ppb	6.13	1.00	
107 Ag	115	1	0.017	ppb	9.39	1.00	
111 Cd	115	1	0.021	ppb	62.04	1.00	
118 Sn	115	1	0.019	ppb	40.06	1.00	
121 Sb	115	1	0.056	ppb	6.71	1.00	
137 Ba	115	1	0.019	ppb	11.10	1.00	
205 Tl	165	1	0.030	ppb	5.43	1.00	
208 Pb	165	1	0.013	ppb	16.52	1.00	
232 Th	165	1	1.108	ppb	18.47	1.00	Fail
238 U	165	1	0.017	ppb	5.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	365426	0.22	367189	99.5	30 - 120	
45 Sc	1	2161178	2.00	2198650	98.3	30 - 120	
72 Ge	1	1023099	0.56	1047607	97.7	30 - 120	
115 In	1	2603761	0.60	2618639	99.4	30 - 120	
165 Ho	1	3680889	1.54	3698894	99.5	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\096WASH.D\096WASH.D#
 Date Acquired: Aug 10 2009 10:20 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: Aug 10 2009 09:56 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	1.079 ppb	10.92	1.30	
51 V	72	1	5.130 ppb	1.45	6.50	
52 Cr	72	1	2.157 ppb	4.54	2.60	
55 Mn	72	1	1.063 ppb	4.53	1.30	
59 Co	72	1	1.050 ppb	1.09	1.30	
60 Ni	72	1	2.074 ppb	4.23	2.60	
63 Cu	72	1	2.123 ppb	1.17	2.60	
66 Zn	72	1	8.217 ppb	1.74	13.00	
75 As	72	1	5.217 ppb	0.89	6.50	
78 Se	72	1	5.154 ppb	5.40	6.50	
95 Mo	72	1	2.220 ppb	6.77	2.60	
107 Ag	115	1	5.308 ppb	1.41	6.50	
111 Cd	115	1	1.070 ppb	1.11	1.30	
118 Sn	115	1	10.290 ppb	0.24	13.00	
121 Sb	115	1	2.012 ppb	3.04	2.60	
137 Ba	115	1	1.086 ppb	2.73	1.30	
205 Tl	165	1	1.124 ppb	1.17	1.30	
208 Pb	165	1	1.090 ppb	1.55	1.30	
232 Th	165	1	2.384 ppb	1.99	2.60	
238 U	165	1	1.125 ppb	2.15	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	362803	1.37	367189	98.8	30 - 120	
45 Sc	1	2155781	1.24	2198650	98.1	30 - 120	
72 Ge	1	1022103	1.11	1047607	97.6	30 - 120	
115 In	1	2573971	0.56	2618639	98.3	30 - 120	
165 Ho	1	3674326	0.25	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\097_BLK.D\097_BLK.D#
 Date Acquired: Aug 10 2009 10:23 pm
 Operator: TEL
 Sample Name: LHFD8B
 Misc Info: BLANK 9215165 6020
 Vial Number: 3112
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 09:56 pm
 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	0.000 ppb	0.00	2.00	
51 V	72	1	-0.013 ppb	47.09	2.00	
52 Cr	72	1	0.091 ppb	15.26	2.00	
55 Mn	72	1	0.058 ppb	9.49	2.00	
59 Co	72	1	0.003 ppb	73.26	2.00	
60 Ni	72	1	-0.037 ppb	58.05	2.00	
63 Cu	72	1	0.037 ppb	56.54	2.00	
66 Zn	72	1	-1.739 ppb	4.72	2.00	
75 As	72	1	-0.003 ppb	249.30	2.00	
78 Se	72	1	0.229 ppb	140.11	2.00	
95 Mo	72	1	-0.013 ppb	91.84	2.00	
107 Ag	115	1	0.008 ppb	23.30	2.00	
111 Cd	115	1	0.002 ppb	33.52	2.00	
118 Sn	115	1	0.086 ppb	14.54	2.00	
121 Sb	115	1	0.033 ppb	10.77	2.00	
137 Ba	115	1	0.294 ppb	7.24	2.00	
205 Tl	165	1	0.031 ppb	32.53	2.00	
208 Pb	165	1	0.012 ppb	5.47	2.00	
232 Th	165	1	0.208 ppb	23.61	2.00	
238 U	165	1	0.003 ppb	13.22	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	367638	1.02	367189	100.1	30 - 120	
45 Sc	1	2176245	1.61	2198650	99.0	30 - 120	
72 Ge	1	1014753	1.63	1047607	96.9	30 - 120	
115 In	1	2604410	0.66	2618639	99.5	30 - 120	
165 Ho	1	3654702	2.13	3698894	98.8	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\
 C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.D#

ISTD Ref File :

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\AG081009A.B\098_LCS.D\098_LCS.D#
 Date Acquired: Aug 10 2009 10:26 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHFD8C
 Misc Info: LCS
 Vial Number: 3201
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 pm
 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	41.63	3.12	40	104.1	80 - 120	
51 V	72	1	42.05	0.80	40	105.1	80 - 120	
52 Cr	72	1	42.79	0.58	40	107.0	80 - 120	
55 Mn	72	1	42.45	0.34	40	106.1	80 - 120	
59 Co	72	1	42.67	0.73	40	106.7	80 - 120	
60 Ni	72	1	42.21	1.32	40	105.5	80 - 120	
63 Cu	72	1	42.64	1.29	40	106.6	80 - 120	
66 Zn	72	1	39.46	1.14	40	98.7	80 - 120	
75 As	72	1	40.59	0.23	40	101.5	80 - 120	
78 Se	72	1	40.74	1.82	40	101.9	80 - 120	
95 Mo	72	1	42.55	1.19	40	106.4	80 - 120	
107 Ag	115	1	41.91	2.02	40	104.8	80 - 120	
111 Cd	115	1	41.04	1.22	40	102.6	80 - 120	
118 Sn	115	1	0.00	690.58	40	0.0	80 - 120	
121 Sb	115	1	40.63	1.34	40	101.6	80 - 120	
137 Ba	115	1	41.89	0.97	40	104.7	80 - 120	
205 Tl	165	1	42.71	0.72	40	106.8	80 - 120	
208 Pb	165	1	42.45	0.51	40	106.1	80 - 120	
232 Th	165	1	44.22	2.03	40	110.6	80 - 120	
238 U	165	1	42.90	0.94	40	107.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	359835	0.58	367189	98.0	30 - 120	
45 Sc	1	2149601	2.15	2198650	97.8	30 - 120	
72 Ge	1	1011383	0.79	1047607	96.5	30 - 120	
115 In	1	2582099	1.24	2618639	98.6	30 - 120	
165 Ho	1	3667504	0.24	3698894	99.2	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\100SDIL.D\100SDIL.D#
 Date Acquired: Aug 10 2009 10:31 pm **QC Summary:**
 Acq. Method: NormISIS.M **Analytes: Pass**
 Operator: TEL **ISTD: Pass**
 Sample Name: LHEPKP5
 Misc Info: SERIAL DILUTION
 Vial Number: 3203
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 pm
 Sample Type: SDIL
 Dilution Factor: 1.00

Dilution Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\099AREF.D\099AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.14 ppb	12.58	0.14	96.7	90 - 110	
51 V	72	1	5.04 ppb	2.74	5.05	99.8	90 - 110	
52 Cr	72	1	8.56 ppb	1.80	8.10	105.7	90 - 110	
55 Mn	72	1	50.04 ppb	0.72	47.78	104.7	90 - 110	
59 Co	72	1	3.09 ppb	1.37	2.94	105.1	90 - 110	
60 Ni	72	1	4.62 ppb	3.50	4.16	111.1	90 - 110	
63 Cu	72	1	2.46 ppb	0.73	2.28	107.9	90 - 110	
66 Zn	72	1	87.04 ppb	0.80	80.34	108.3	90 - 110	
75 As	72	1	9.33 ppb	1.43	8.81	105.9	90 - 110	
78 Se	72	1	0.80 ppb	58.22	0.48	165.5	90 - 110	
95 Mo	72	1	2.94 ppb	1.81	2.96	99.3	90 - 110	
107 Ag	115	1	0.05 ppb	1.31	0.05	108.1	90 - 110	
111 Cd	115	1	0.10 ppb	20.67	0.09	113.8	90 - 110	
118 Sn	115	1	0.13 ppb	32.78	0.10	127.8	90 - 110	
121 Sb	115	1	0.07 ppb	6.35	0.06	106.1	90 - 110	
137 Ba	115	1	25.55 ppb	1.41	25.10	101.8	90 - 110	
205 Tl	165	1	0.08 ppb	11.96	0.08	100.7	90 - 110	
208 Pb	165	1	1.45 ppb	2.47	1.36	107.2	90 - 110	
232 Th	165	1	1.17 ppb	2.07	1.23	94.5	90 - 110	
238 U	165	1	0.77 ppb	1.83	0.75	102.2	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	358785	0.17	367189	97.7	30 - 120	
45 Sc	1	2062742	0.44	2198650	93.8	30 - 120	
72 Ge	1	966302	0.64	1047607	92.2	30 - 120	
115 In	1	2459182	1.17	2618639	93.9	30 - 120	
165 Ho	1	3579354	0.91	3698894	96.8	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\AG081009A.B\086CALB.D\086CALB.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: 08/11/09 10:33:52

Department: 090 (Metals) Source: Spreadsheet

Sample: LHEPKP5 Serial Dilution: 5.00 Sample Dilution: 1.00

Instrument: Agilent7500 Channel 272
File: AG081009A # 100 Method 6020_
Acquired: 08/10/2009 22:31:00 ICPMS_024 Matrix: AQUEOUS
Calibrated: 08/10/2009 21:53:00 Units: ug/L

Table with columns: CASN, Analyte Name, M/S, Area, Dilution, Sample, %Diff., MDL, Flag, Q. Rows include Beryllium, Vanadium, Chromium, Manganese, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Molybdenum, Silver, Cadmium, Tin, Antimony, Barium, Thallium, Lead, Uranium, Thorium, Lithium, Scandium, Indium, Germanium, Holmium.

* Analyte not requested for this batch, no MDL
NC : Serial dilution concentration < 100 X MDL
E : Difference greater than Limit (10%)

Reviewed by: [Signature] Date: 8/11/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\101PDS.D\101PDS.D#
 Date Acquired: Aug 10 2009 10:34 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHEPKZ
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 pm
 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	191.10	0.72	ppb	2.31	200	95.2	75 - 125	
51 V	72	1	233.20	25.25	ppb	1.13	200	103.5	75 - 125	
52 Cr	72	1	248.20	40.50	ppb	1.18	200	103.2	75 - 125	
55 Mn	72	1	434.90	238.90	ppb	1.21	200	99.1	75 - 125	
59 Co	72	1	210.60	14.68	ppb	0.09	200	98.1	75 - 125	
60 Ni	72	1	211.20	20.79	ppb	0.60	200	95.7	75 - 125	
63 Cu	72	1	198.00	11.38	ppb	0.66	200	93.7	75 - 125	
66 Zn	72	1	609.50	401.70	ppb	0.87	200	101.3	75 - 125	
75 As	72	1	244.90	44.05	ppb	0.55	200	100.3	75 - 125	
78 Se	72	1	205.30	2.41	ppb	1.54	200	101.4	75 - 125	
95 Mo	72	1	226.90	14.82	ppb	0.09	200	105.6	75 - 125	
107 Ag	115	1	44.96	0.25	ppb	0.74	50	89.5	75 - 125	
111 Cd	115	1	186.80	0.45	ppb	1.22	200	93.2	75 - 125	
118 Sn	115	1	180.00	0.49	ppb	0.51	200	89.8	75 - 125	
121 Sb	115	1	195.20	0.32	ppb	1.18	200	97.4	75 - 125	
137 Ba	115	1	317.50	125.50	ppb	0.81	200	97.5	75 - 125	
205 Tl	165	1	186.90	0.40	ppb	0.49	200	93.3	75 - 125	
208 Pb	165	1	191.60	6.78	ppb	0.81	200	92.7	75 - 125	
232 Th	165	1	5.20	6.17	ppb	0.67	200	2.5	75 - 125	
238 U	165	1	198.30	3.77	ppb	1.26	200	97.3	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	337919	0.72	367189	92.0	30 - 120	
45 Sc	1	1961949	0.36	2198650	89.2	30 - 120	
72 Ge	1	850557	0.87	1047607	81.2	30 - 120	
115 In	1	2250315	0.55	2618639	85.9	30 - 120	
165 Ho	1	3339306	0.18	3698894	90.3	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\AG081009A.B\086CALB.D\086CALB.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: 08/11/09 10:33:56

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHEPKZ

Spike Dilution: 1.00

Sample Dilution: 1.00

Instrument: Agilent7500 Channel 272
File: AG081009A # 101 Method 6020_
Acquired: 08/10/2009 22:34:00 ICPMS_024 Matrix: AQUEOUS
Calibrated: 08/10/2009 21:53:00 Units: ug/L

Table with columns: CASN, Analyte Name, M/S, Area, Amount, Sample, %Rec., Spike, Flag, Q. Rows include Beryllium, Vanadium, Chromium, Manganese, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Molybdenum, Silver, Cadmium, Tin, Antimony, Barium, Thallium, Lead, Uranium, Thorium, Lithium, Scandium, Indium, Germanium, Holmium.

Reviewed by: [Signature] Date: 8/11/09

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\102SMPL.D\102SMPL.D#
 Date Acquired: Aug 10 2009 10:37 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHEPL
 Misc Info: D9H010152
 Vial Number: 3205
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 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	0.20	0.20	ppb	19.70	3600	
51 V	72	1	10.78	10.78	ppb	2.66	3600	
52 Cr	72	1	15.58	15.58	ppb	1.72	3600	
55 Mn	72	1	90.20	90.20	ppb	1.68	3600	
59 Co	72	1	1.50	1.50	ppb	0.11	3600	
60 Ni	72	1	5.19	5.19	ppb	1.50	3600	
63 Cu	72	1	4.16	4.16	ppb	1.76	3600	
66 Zn	72	1	13.62	13.62	ppb	0.86	3600	
75 As	72	1	17.17	17.17	ppb	1.30	3600	
78 Se	72	1	5.66	5.66	ppb	28.91	3600	
95 Mo	72	1	11.24	11.24	ppb	2.70	3600	
107 Ag	115	1	0.02	0.02	ppb	17.93	3600	
111 Cd	115	1	0.15	0.15	ppb	19.93	3600	
118 Sn	115	1	0.44	0.44	ppb	4.38	3600	
121 Sb	115	1	0.30	0.30	ppb	6.74	3600	
137 Ba	115	1	38.92	38.92	ppb	1.90	3600	
205 Tl	165	1	0.12	0.12	ppb	7.52	3600	
208 Pb	165	1	2.18	2.18	ppb	0.10	3600	
232 Th	165	1	2.18	2.18	ppb	1.60	1000	
238 U	165	1	3.91	3.91	ppb	0.81	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	347406	1.57	367189	94.6	30 - 120	
45 Sc	1	1985497	2.22	2198650	90.3	30 - 120	
72 Ge	1	864573	0.99	1047607	82.5	30 - 120	
115 In	1	2217506	0.87	2618639	84.7	30 - 120	
165 Ho	1	3346482	0.37	3698894	90.5	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\103SMPL.D\103SMPL.D#
 Date Acquired: Aug 10 2009 10:39 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHEPM
 Misc Info: D9H010152
 Vial Number: 3206
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 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	0.24	0.24	ppb	55.22	3600	
51 V	72	1	12.48	12.48	ppb	2.03	3600	
52 Cr	72	1	14.96	14.96	ppb	1.17	3600	
55 Mn	72	1	62.54	62.54	ppb	1.91	3600	
59 Co	72	1	1.53	1.53	ppb	0.47	3600	
60 Ni	72	1	5.54	5.54	ppb	3.28	3600	
63 Cu	72	1	4.04	4.04	ppb	1.07	3600	
66 Zn	72	1	173.00	173.00	ppb	1.36	3600	
75 As	72	1	33.98	33.98	ppb	1.79	3600	
78 Se	72	1	2.69	2.69	ppb	9.08	3600	
95 Mo	72	1	23.70	23.70	ppb	2.05	3600	
107 Ag	115	1	0.14	0.14	ppb	3.73	3600	
111 Cd	115	1	0.14	0.14	ppb	23.77	3600	
118 Sn	115	1	0.46	0.46	ppb	7.95	3600	
121 Sb	115	1	0.34	0.34	ppb	1.96	3600	
137 Ba	115	1	50.29	50.29	ppb	1.09	3600	
205 Tl	165	1	0.10	0.10	ppb	8.64	3600	
208 Pb	165	1	2.89	2.89	ppb	1.73	3600	
232 Th	165	1	1.94	1.94	ppb	2.53	1000	
238 U	165	1	2.87	2.87	ppb	2.21	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	350704	1.84	367189	95.5	30 - 120	
45 Sc	1	1963247	0.88	2198650	89.3	30 - 120	
72 Ge	1	875162	1.54	1047607	83.5	30 - 120	
115 In	1	2292225	0.77	2618639	87.5	30 - 120	
165 Ho	1	3434666	1.31	3698894	92.9	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\104 CC.V.D\104 CC.V.D#
 Date Acquired: Aug 10 2009 10:42 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: Aug 10 2009 09:56 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	47.35 ppb	1.58	50	94.7	90 - 110
51	V	72	1	48.79 ppb	0.45	50	97.6	90 - 110
52	Cr	72	1	49.86 ppb	0.74	50	99.7	90 - 110
55	Mn	72	1	49.41 ppb	0.53	50	98.8	90 - 110
59	Co	72	1	49.75 ppb	1.02	50	99.5	90 - 110
60	Ni	72	1	49.54 ppb	1.59	50	99.1	90 - 110
63	Cu	72	1	49.55 ppb	0.53	50	99.1	90 - 110
66	Zn	72	1	51.97 ppb	1.18	50	103.9	90 - 110
75	As	72	1	49.47 ppb	1.48	50	98.9	90 - 110
78	Se	72	1	48.73 ppb	2.92	50	97.5	90 - 110
95	Mo	72	1	50.50 ppb	0.60	50	101.0	90 - 110
107	Ag	115	1	48.55 ppb	1.56	50	97.1	90 - 110
111	Cd	115	1	48.80 ppb	1.45	50	97.6	90 - 110
118	Sn	115	1	48.99 ppb	1.79	50	98.0	90 - 110
121	Sb	115	1	48.96 ppb	1.31	50	97.9	90 - 110
137	Ba	115	1	49.39 ppb	1.45	50	98.8	90 - 110
205	Tl	165	1	50.28 ppb	1.34	50	100.6	90 - 110
208	Pb	165	1	50.39 ppb	1.44	50	100.8	90 - 110
232	Th	165	1	50.90 ppb	1.82	50	101.8	90 - 110
238	U	165	1	52.02 ppb	1.74	50	104.0	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	361919	1.09	367189	98.6	30 - 120
45	Sc	1	1999922	0.32	2198650	91.0	30 - 120
72	Ge	1	957227	0.81	1047607	91.4	30 - 120
115	In	1	2495390	0.78	2618639	95.3	30 - 120
165	Ho	1	3577083	0.69	3698894	96.7	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\105_CCB.D\105_CCB.D#
 Date Acquired: Aug 10 2009 10:45 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: Aug 10 2009 09:56 pm
 Sample Type: CCB
 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	0.000 ppb	0.00	1.00	
51 V	72	1	-0.019 ppb	201.79	1.00	
52 Cr	72	1	0.001 ppb	1631.50	1.00	
55 Mn	72	1	0.076 ppb	8.14	1.00	
59 Co	72	1	0.009 ppb	31.80	1.00	
60 Ni	72	1	-0.064 ppb	29.74	1.00	
63 Cu	72	1	0.020 ppb	119.79	1.00	
66 Zn	72	1	-2.234 ppb	0.51	1.00	
75 As	72	1	0.024 ppb	40.35	1.00	
78 Se	72	1	0.280 ppb	59.17	1.00	
95 Mo	72	1	-0.034 ppb	27.82	1.00	
107 Ag	115	1	0.015 ppb	19.73	1.00	
111 Cd	115	1	0.022 ppb	78.13	1.00	
118 Sn	115	1	0.058 ppb	33.89	1.00	
121 Sb	115	1	0.050 ppb	10.20	1.00	
137 Ba	115	1	0.019 ppb	19.25	1.00	
205 Tl	165	1	0.029 ppb	23.83	1.00	
208 Pb	165	1	0.012 ppb	11.39	1.00	
232 Th	165	1	0.981 ppb	15.41	1.00	
238 U	165	1	0.016 ppb	9.45	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	358497	1.03	367189	97.6	30 - 120	
45 Sc	1	2022509	1.01	2198650	92.0	30 - 120	
72 Ge	1	965419	0.65	1047607	92.2	30 - 120	
115 In	1	2455095	0.15	2618639	93.8	30 - 120	
165 Ho	1	3584825	0.74	3698894	96.9	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\AG081009A.B\086CALB.D\086CALB.D#

0 :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\AG081009A.B\106WASH.D\106WASH.D#
 Date Acquired: Aug 10 2009 10:48 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: Aug 10 2009 09:56 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	1.014 ppb	15.35	1.30	
51 V	72	1	5.159 ppb	0.41	6.50	
52 Cr	72	1	2.136 ppb	0.56	2.60	
55 Mn	72	1	1.093 ppb	3.79	1.30	
59 Co	72	1	1.035 ppb	3.06	1.30	
60 Ni	72	1	2.046 ppb	3.09	2.60	
63 Cu	72	1	2.079 ppb	1.08	2.60	
66 Zn	72	1	8.314 ppb	1.46	13.00	
75 As	72	1	5.253 ppb	1.26	6.50	
78 Se	72	1	5.122 ppb	10.78	6.50	
95 Mo	72	1	2.067 ppb	3.76	2.60	
107 Ag	115	1	5.235 ppb	0.83	6.50	
111 Cd	115	1	1.052 ppb	2.06	1.30	
118 Sn	115	1	10.350 ppb	1.73	13.00	
121 Sb	115	1	1.972 ppb	0.57	2.60	
137 Ba	115	1	1.069 ppb	4.11	1.30	
205 Tl	165	1	1.124 ppb	0.22	1.30	
208 Pb	165	1	1.103 ppb	1.00	1.30	
232 Th	165	1	2.378 ppb	1.43	2.60	
238 U	165	1	1.134 ppb	1.07	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	359568	0.53	367189	97.9	30 - 120	
45 Sc	1	2010524	1.26	2198650	91.4	30 - 120	
72 Ge	1	957577	0.64	1047607	91.4	30 - 120	
115 In	1	2477115	0.96	2618639	94.6	30 - 120	
165 Ho	1	3513890	0.33	3698894	95.0	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\AG081009A.B\086CALB.D\086CALB.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.D#
 Date Acquired: Aug 10 2009 11:51 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: Aug 10 2009 11:49 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	-204	211.14
52	Cr	72	1	2947	6.78
55	Mn	72	1	517	14.80
59	Co	72	1	33	35.39
60	Ni	72	1	87	45.12
63	Cu	72	1	677	10.89
66	Zn	72	1	237	18.82
75	As	72	1	69	15.74
78	Se	72	1	613	7.25
95	Mo	72	1	487	21.90
107	Ag	115	1	7	86.63
111	Cd	115	1	9	55.22
118	Sn	115	1	527	25.33
121	Sb	115	1	46	21.06
137	Ba	115	1	21	55.68
205	Tl	165	1	54	35.92
208	Pb	165	1	217	1.32
232	Th	165	1	210	24.29
238	U	165	1	58	9.14

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	298913	0.41
45	Sc	1	1771505	1.08
72	Ge	1	851994	1.37
115	In	1	2290579	0.24
165	Ho	1	3269618	1.10

Tune File# 1 c:\icpchem\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\AG081009A.B\129ICAL.D\129ICAL.D#
 Date Acquired: Aug 10 2009 11:54 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: Aug 10 2009 11:52 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	44626	1.86
51	V	72	1103412	1.83
52	Cr	72	1112907	2.35
55	Mn	72	1182637	1.64
59	Co	72	1406971	1.17
60	Ni	72	322074	1.24
63	Cu	72	765226	0.44
66	Zn	72	149309	0.51
75	As	72	135226	0.52
78	Se	72	23661	3.26
95	Mo	72	358767	0.65
107	Ag	115	1018041	1.08
111	Cd	115	189633	1.01
118	Sn	115	539808	0.91
121	Sb	115	608141	0.64
137	Ba	115	268515	0.48
205	Tl	165	1732019	1.28
208	Pb	165	2365674	0.82
232	Th	165	2194146	3.15
238	U	165	2441986	1.18

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	289713	1.35	298913	96.9	30 - 120
45	Sc	1	1702546	1.03	1771505	96.1	30 - 120
72	Ge	1	813760	0.90	851994	95.5	30 - 120
115	In	1	2210431	0.19	2290579	96.5	30 - 120
165	Ho	1	3250286	0.48	3269618	99.4	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\131_CCB.D\131_CCB.D#
 Date Acquired: Aug 10 2009 11:59 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: Aug 10 2009 11:54 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	0.007 ppb	173.23	1.00	
51 V	72	1	0.027 ppb	52.26	1.00	
52 Cr	72	1	0.022 ppb	96.05	1.00	
55 Mn	72	1	0.093 ppb	16.51	1.00	
59 Co	72	1	0.013 ppb	10.56	1.00	
60 Ni	72	1	0.031 ppb	15.88	1.00	
63 Cu	72	1	0.039 ppb	36.46	1.00	
66 Zn	72	1	0.568 ppb	5.54	1.00	
75 As	72	1	0.016 ppb	167.31	1.00	
78 Se	72	1	0.407 ppb	77.30	1.00	
95 Mo	72	1	-0.004 ppb	423.30	1.00	
107 Ag	115	1	0.018 ppb	31.54	1.00	
111 Cd	115	1	0.010 ppb	43.83	1.00	
118 Sn	115	1	0.075 ppb	23.85	1.00	
121 Sb	115	1	0.059 ppb	6.87	1.00	
137 Ba	115	1	0.017 ppb	19.95	1.00	
205 Tl	165	1	0.053 ppb	9.73	1.00	
208 Pb	165	1	0.016 ppb	6.36	1.00	
232 Th	165	1	1.410 ppb	17.65	1.00	Fail
238 U	165	1	0.018 ppb	20.10	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	293448	0.70	298913	98.2	30 - 120	
45 Sc	1	1702764	0.71	1771505	96.1	30 - 120	
72 Ge	1	833810	0.47	851994	97.9	30 - 120	
115 In	1	2223577	1.33	2290579	97.1	30 - 120	
165 Ho	1	3240597	0.45	3269618	99.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\132WASH.D\132WASH.D#
 Date Acquired: Aug 11 2009 12:02 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: Aug 10 2009 11:54 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	0.899 ppb	14.08	1.30	
51 V	72	1	4.971 ppb	1.08	6.50	
52 Cr	72	1	1.987 ppb	1.47	2.60	
55 Mn	72	1	1.001 ppb	2.00	1.30	
59 Co	72	1	1.052 ppb	4.51	1.30	
60 Ni	72	1	2.068 ppb	5.49	2.60	
63 Cu	72	1	2.048 ppb	1.81	2.60	
66 Zn	72	1	10.340 ppb	0.83	13.00	
75 As	72	1	5.128 ppb	2.68	6.50	
78 Se	72	1	4.579 ppb	16.89	6.50	
95 Mo	72	1	2.046 ppb	2.72	2.60	
107 Ag	115	1	5.235 ppb	2.60	6.50	
111 Cd	115	1	1.066 ppb	2.10	1.30	
118 Sn	115	1	10.190 ppb	0.75	13.00	
121 Sb	115	1	1.946 ppb	1.04	2.60	
137 Ba	115	1	1.082 ppb	1.38	1.30	
205 Tl	165	1	1.105 ppb	0.56	1.30	
208 Pb	165	1	1.062 ppb	0.76	1.30	
232 Th	165	1	2.471 ppb	1.77	2.60	
238 U	165	1	1.103 ppb	0.44	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291146	0.69	298913	97.4	30 - 120	
45 Sc	1	1730528	0.89	1771505	97.7	30 - 120	
72 Ge	1	836746	1.09	851994	98.2	30 - 120	
115 In	1	2252218	0.93	2290579	98.3	30 - 120	
165 Ho	1	3295222	0.70	3269618	100.8	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\140_CCV.D\140_CCV.D#
 Date Acquired: Aug 11 2009 12:24 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: Aug 10 2009 11:54 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	48.05 ppb	2.14	50	96.1	90 - 110
51	V	72	1	48.28 ppb	0.55	50	96.6	90 - 110
52	Cr	72	1	48.47 ppb	0.34	50	96.9	90 - 110
55	Mn	72	1	48.51 ppb	0.05	50	97.0	90 - 110
59	Co	72	1	49.83 ppb	0.58	50	99.7	90 - 110
60	Ni	72	1	50.62 ppb	0.97	50	101.2	90 - 110
63	Cu	72	1	50.13 ppb	0.91	50	100.3	90 - 110
66	Zn	72	1	53.11 ppb	0.29	50	106.2	90 - 110
75	As	72	1	49.76 ppb	0.62	50	99.5	90 - 110
78	Se	72	1	50.67 ppb	2.65	50	101.3	90 - 110
95	Mo	72	1	50.03 ppb	1.07	50	100.1	90 - 110
107	Ag	115	1	48.74 ppb	0.67	50	97.5	90 - 110
111	Cd	115	1	48.95 ppb	0.40	50	97.9	90 - 110
118	Sn	115	1	48.81 ppb	0.82	50	97.6	90 - 110
121	Sb	115	1	49.01 ppb	0.27	50	98.0	90 - 110
137	Ba	115	1	48.39 ppb	0.16	50	96.8	90 - 110
205	Tl	165	1	49.86 ppb	1.47	50	99.7	90 - 110
208	Pb	165	1	49.79 ppb	1.49	50	99.6	90 - 110
232	Th	165	1	49.69 ppb	4.24	50	99.4	90 - 110
238	U	165	1	51.43 ppb	0.98	50	102.9	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	296315	1.12	298913	99.1	30 - 120
45	Sc	1	1724753	0.27	1771505	97.4	30 - 120
72	Ge	1	814095	0.60	851994	95.6	30 - 120
115	In	1	2276199	1.01	2290579	99.4	30 - 120
165	Ho	1	3333127	1.63	3269618	101.9	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\141_CCB.D\141_CCB.D#
 Date Acquired: Aug 11 2009 12:27 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: Aug 10 2009 11:54 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	0.007 ppb	173.26	1.00	
51 V	72	1	0.030 ppb	63.24	1.00	
52 Cr	72	1	0.046 ppb	35.83	1.00	
55 Mn	72	1	0.078 ppb	12.97	1.00	
59 Co	72	1	0.011 ppb	22.44	1.00	
60 Ni	72	1	0.043 ppb	33.11	1.00	
63 Cu	72	1	0.021 ppb	14.28	1.00	
66 Zn	72	1	0.534 ppb	2.13	1.00	
75 As	72	1	0.013 ppb	84.72	1.00	
78 Se	72	1	0.498 ppb	74.36	1.00	
95 Mo	72	1	-0.057 ppb	32.06	1.00	
107 Ag	115	1	0.020 ppb	15.86	1.00	
111 Cd	115	1	0.008 ppb	84.67	1.00	
118 Sn	115	1	0.095 ppb	31.36	1.00	
121 Sb	115	1	0.049 ppb	9.27	1.00	
137 Ba	115	1	0.020 ppb	30.44	1.00	
205 Tl	165	1	0.033 ppb	11.13	1.00	
208 Pb	165	1	0.015 ppb	14.76	1.00	
232 Th	165	1	1.225 ppb	15.25	1.00	Fail
238 U	165	1	0.016 ppb	2.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299079	0.77	298913	100.1	30 - 120	
45 Sc	1	1736434	1.52	1771505	98.0	30 - 120	
72 Ge	1	843836	0.86	851994	99.0	30 - 120	
115 In	1	2269332	0.97	2290579	99.1	30 - 120	
165 Ho	1	3307967	0.93	3269618	101.2	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\142WASH.D\142WASH.D#
 Date Acquired: Aug 11 2009 12:29 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: Aug 10 2009 11:54 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	0.997 ppb	19.94	1.30	
51 V	72	1	4.993 ppb	2.41	6.50	
52 Cr	72	1	1.979 ppb	2.89	2.60	
55 Mn	72	1	0.999 ppb	2.38	1.30	
59 Co	72	1	1.029 ppb	4.27	1.30	
60 Ni	72	1	2.155 ppb	3.61	2.60	
63 Cu	72	1	2.009 ppb	3.95	2.60	
66 Zn	72	1	10.210 ppb	0.70	13.00	
75 As	72	1	5.007 ppb	0.90	6.50	
78 Se	72	1	5.391 ppb	9.51	6.50	
95 Mo	72	1	1.897 ppb	2.43	2.60	
107 Ag	115	1	5.135 ppb	0.72	6.50	
111 Cd	115	1	0.982 ppb	3.08	1.30	
118 Sn	115	1	10.370 ppb	3.90	13.00	
121 Sb	115	1	1.993 ppb	3.72	2.60	
137 Ba	115	1	1.033 ppb	2.27	1.30	
205 Tl	165	1	1.104 ppb	2.04	1.30	
208 Pb	165	1	1.077 ppb	1.00	1.30	
232 Th	165	1	2.396 ppb	2.33	2.60	
238 U	165	1	1.105 ppb	0.89	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	297355	0.58	298913	99.5	30 - 120	
45 Sc	1	1763171	1.88	1771505	99.5	30 - 120	
72 Ge	1	841859	0.41	851994	98.8	30 - 120	
115 In	1	2276749	1.44	2290579	99.4	30 - 120	
165 Ho	1	3305076	1.92	3269618	101.1	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\143_BLK.D\143_BLK.D#
 Date Acquired: Aug 11 2009 12:32 am
 Operator: TEL
 Sample Name: LHH8TB
 Misc Info: BLANK 9217132 6020
 Vial Number: 3302
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 11:54 pm
 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	0.007 ppb	173.16	2.00	
51 V	72	1	0.028 ppb	44.06	2.00	
52 Cr	72	1	0.098 ppb	25.54	2.00	
55 Mn	72	1	0.161 ppb	11.76	2.00	
59 Co	72	1	0.001 ppb	222.94	2.00	
60 Ni	72	1	0.014 ppb	57.90	2.00	
63 Cu	72	1	0.044 ppb	38.85	2.00	
66 Zn	72	1	0.451 ppb	1.38	2.00	
75 As	72	1	0.001 ppb	129.52	2.00	
78 Se	72	1	0.007 ppb	5104.40	2.00	
95 Mo	72	1	-0.097 ppb	12.34	2.00	
107 Ag	115	1	0.005 ppb	61.20	2.00	
111 Cd	115	1	-0.001 ppb	565.62	2.00	
118 Sn	115	1	0.049 ppb	24.21	2.00	
121 Sb	115	1	0.027 ppb	23.10	2.00	
137 Ba	115	1	0.031 ppb	11.89	2.00	
205 Tl	165	1	0.038 ppb	25.33	2.00	
208 Pb	165	1	0.009 ppb	10.73	2.00	
232 Th	165	1	0.269 ppb	20.08	2.00	
238 U	165	1	0.001 ppb	68.12	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	293359	0.79	298913	98.1	30 - 120	
45 Sc	1	1723460	0.92	1771505	97.3	30 - 120	
72 Ge	1	822004	0.58	851994	96.5	30 - 120	
115 In	1	2237686	1.60	2290579	97.7	30 - 120	
165 Ho	1	3301972	1.13	3269618	101.0	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\144_LCS.D\144_LCS.D#
 Date Acquired: Aug 11 2009 12:35 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHH8TC
 Misc Info: LCS
 Vial Number: 3303
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	39.52	0.45	40	98.8	80 - 120	
51 V	72	1	40.16	1.91	40	100.4	80 - 120	
52 Cr	72	1	40.10	0.58	40	100.3	80 - 120	
55 Mn	72	1	40.63	0.62	40	101.6	80 - 120	
59 Co	72	1	41.15	0.61	40	102.9	80 - 120	
60 Ni	72	1	41.30	0.45	40	103.3	80 - 120	
63 Cu	72	1	41.85	0.82	40	104.6	80 - 120	
66 Zn	72	1	40.31	0.46	40	100.8	80 - 120	
75 As	72	1	39.43	0.93	40	98.6	80 - 120	
78 Se	72	1	39.07	3.52	40	97.7	80 - 120	
95 Mo	72	1	39.27	0.57	40	98.2	80 - 120	
107 Ag	115	1	39.99	2.12	40	100.0	80 - 120	
111 Cd	115	1	39.63	1.74	40	99.1	80 - 120	
118 Sn	115	1	0.03	81.05	40	0.1	80 - 120	
121 Sb	115	1	37.15	1.53	40	92.9	80 - 120	
137 Ba	115	1	40.21	0.45	40	100.5	80 - 120	
205 Tl	165	1	41.60	1.30	40	104.0	80 - 120	
208 Pb	165	1	41.36	1.36	40	103.4	80 - 120	
232 Th	165	1	43.21	0.89	40	108.0	80 - 120	
238 U	165	1	42.46	0.25	40	106.2	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	288494	0.58	298913	96.5	30 - 120	
45 Sc	1	1693916	0.66	1771505	95.6	30 - 120	
72 Ge	1	796858	0.68	851994	93.5	30 - 120	
115 In	1	2230409	0.66	2290579	97.4	30 - 120	
165 Ho	1	3279872	0.76	3269618	100.3	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\145AREF.D\145AREF.D#
 Date Acquired: Aug 11 2009 12:38 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG1P 10X
 Misc Info: D9H040187
 Vial Number: 3304
 Current Method: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M
 Calibration File: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C
 Last Cal. Update: Aug 11 2009 11:17 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	0.22	0.02	ppb	0.87	3600	
51 V	72	1	-294.30	-29.43	ppb	11.86	3600	
52 Cr	72	1	10,010.00	1001.00	ppb	1.56	3600	
55 Mn	72	1	187.90	18.79	ppb	1.48	3600	
59 Co	72	1	2.72	0.27	ppb	3.00	3600	
60 Ni	72	1	9.98	1.00	ppb	3.77	3600	
63 Cu	72	1	2.78	0.28	ppb	5.35	3600	
66 Zn	72	1	6.16	0.62	ppb	4.82	3600	
75 As	72	1	103.80	10.38	ppb	2.97	3600	
78 Se	72	1	9.58	0.96	ppb	39.88	3600	
95 Mo	72	1	10.60	1.06	ppb	4.27	3600	
107 Ag	115	1	0.15	0.01	ppb	26.09	3600	
111 Cd	115	1	-0.25	-0.02	ppb	120.06	3600	
118 Sn	115	1	0.90	0.09	ppb	10.49	3600	
121 Sb	115	1	0.42	0.04	ppb	15.94	3600	
137 Ba	115	1	47.83	4.78	ppb	0.99	3600	
205 Tl	165	1	0.56	0.06	ppb	23.64	3600	
208 Pb	165	1	1.10	0.11	ppb	10.44	3600	
232 Th	165	1	9.62	0.96	ppb	14.60	1000	
238 U	165	1	32.70	3.27	ppb	2.38	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291486	0.87	298913	97.5	30 - 120	
45 Sc	1	1704287	0.82	1771505	96.2	30 - 120	
72 Ge	1	790412	0.97	851994	92.8	30 - 120	
115 In	1	2089228	1.06	2290579	91.2	30 - 120	
165 Ho	1	3175531	1.19	3269618	97.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\146SDIL.D\146SDIL.D#
 Date Acquired: Aug 11 2009 12:41 am **QC Summary:**
 Acq. Method: NormISIS.M **Analytes: Pass**
 Operator: TEL **ISTD: Pass**
 Sample Name: LHG1PP50
 Misc Info: SERIAL DILUTION
 Vial Number: 3305
 Current Method: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M
 Calibration File: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C
 Last Cal. Update: Aug 11 2009 11:17 am
 Sample Type: SDIL
 Dilution Factor: 10.00

Dilution Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\145AREF.D\145AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01 ppb	173.20	0.00	157.5	90 - 110	
51 V	72	1	-4.74 ppb	27.41	-5.89	80.4	90 - 110	
52 Cr	72	1	209.10 ppb	2.09	200.20	104.4	90 - 110	
55 Mn	72	1	3.99 ppb	1.35	3.76	106.3	90 - 110	
59 Co	72	1	0.07 ppb	7.44	0.05	137.7	90 - 110	
60 Ni	72	1	0.36 ppb	7.71	0.20	182.1	90 - 110	
63 Cu	72	1	0.07 ppb	27.15	0.06	131.4	90 - 110	
66 Zn	72	1	0.34 ppb	3.20	0.12	275.1	90 - 110	
75 As	72	1	2.15 ppb	1.39	2.08	103.6	90 - 110	
78 Se	72	1	0.59 ppb	15.55	0.19	310.4	90 - 110	
95 Mo	72	1	0.13 ppb	14.27	0.21	60.7	90 - 110	
107 Ag	115	1	0.00 ppb	86.62	0.00	156.8	90 - 110	
111 Cd	115	1	0.01 ppb	94.23	0.00	-131.7	90 - 110	
118 Sn	115	1	0.19 ppb	16.09	0.02	1058.0	90 - 110	
121 Sb	115	1	0.01 ppb	28.22	0.01	160.2	90 - 110	
137 Ba	115	1	1.00 ppb	4.46	0.96	104.3	90 - 110	
205 Tl	165	1	0.01 ppb	9.99	0.01	87.7	90 - 110	
208 Pb	165	1	0.03 ppb	3.55	0.02	120.7	90 - 110	
232 Th	165	1	0.20 ppb	9.18	0.19	105.3	90 - 110	
238 U	165	1	0.68 ppb	2.62	0.65	103.9	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	304886	1.09	298913	102.0	30 - 120	
45 Sc	1	1751561	0.53	1771505	98.9	30 - 120	
72 Ge	1	840273	0.94	851994	98.6	30 - 120	
115 In	1	2233781	0.77	2290579	97.5	30 - 120	
165 Ho	1	3301214	0.88	3269618	101.0	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\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 11:23:44

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHG1PP50

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG081009A # 146

Method 6020_

Acquired: 08/11/2009 00:41:00

ICPMS_024

Matrix: AQUEOUS

Calibrated: 08/10/2009 23:51:00

Units: ug/L

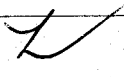
CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9	3	0.35075	0.22270	57.5		*	
7440-62-2	Vanadium	51	-54238	-236.75	-294.30			*	
7440-47-3	Chromium	52	2399990	10455	10010	4.45		*	
7439-96-5	Manganese	55	49257	199.65	187.90	6.25		*	
7440-48-4	Cobalt	59	1120	3.7405	2.7170	37.7		*	
7440-02-0	Nickel	60	1293	18.170	9.9780	82.1		*	
7440-50-8	Copper	63	1243	3.6495	2.7780	31.4		*	
7440-66-6	Zinc	66	757	16.960	6.1640	175		*	
7440-38-2	Arsenic	75	3068	107.50	103.80	3.56	0.21	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	747	29.725	9.5770	210	0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	957	6.4350	10.600	39.3		*	
7440-22-4	Silver	107	53	0.22870	0.14590	56.8		*	
7440-43-9	Cadmium	111	22	0.32770	-0.24880			*	
7440-31-5	Tin	118	1547	9.4800	0.89600	958		*	
7440-36-0	Antimony	121	127	0.66850	0.41720	60.2		*	
7440-39-3	Barium	137	2727	49.880	47.830	4.29		*	
7440-28-0	Thallium	205	228	0.49135	0.56000	12.3		*	
7439-92-1	Lead	208	856	1.3255	1.0980	20.7		*	
7440-61-1	Uranium	238	16907	33.970	32.700	3.88		*	
7440-29-1	Thorium	232	4731	10.135	9.6220	5.33		*	
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%)

AS ce only

Reviewed by: 

Date: 8/11/09

Denver

SAMPLE SPIKE

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 08/11/09 11:23:48

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHG1PZ

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG081009A # 147

Method 6020_

Acquired: 08/11/2009 00:43:00

ICPMS_024

Matrix: AQUEOUS


Calibrated: 08/10/2009 23:51:00

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	92945	204.50	0.02227	102	200		<input checked="" type="checkbox"/>
7440-62-2	Vanadium	51	1770840	166.20	-29.430	83.1	200		<input type="checkbox"/>
7440-47-3	Chromium	52	12859300	1200.0	1001.0	99.5	200	*	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	2466560	216.10	18.790	98.7	200		<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	2637930	194.20	0.27170	97.0	200		<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	594594	191.30	0.99780	95.2	200		<input checked="" type="checkbox"/>
7440-50-8	Copper	63	1400850	189.70	0.27780	94.7	200		<input checked="" type="checkbox"/>
7440-66-6	Zinc	66	281975	195.80	0.61640	97.6	200		<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	280069	214.60	10.380	102	200		<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	45766	202.90	0.95770	101	200		<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	716407	207.00	1.0600	103	200		<input type="checkbox"/>
7440-22-4	Silver	107	441342	45.530	0.01459	91.0	50.0		<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	353875	196.00	-0.02488	98.0	200		<input checked="" type="checkbox"/>
7440-31-5	Tin	118	944944	183.90	0.08960	91.9	200		<input type="checkbox"/>
7440-36-0	Antimony	121	1169940	202.00	0.04172	101	200		<input checked="" type="checkbox"/>
7440-39-3	Barium	137	518739	202.90	4.7830	99.1	200		<input checked="" type="checkbox"/>
7440-28-0	Thallium	205	3178780	186.10	0.05600	93.0	200		<input checked="" type="checkbox"/>
7439-92-1	Lead	208	4281670	183.50	0.10980	91.7	200		<input checked="" type="checkbox"/>
7440-61-1	Uranium	238	4743130	197.00	3.2700	96.9	200		<input checked="" type="checkbox"/>
7440-29-1	Thorium	232	4391	0.19330	0.96220				
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				

AS. Seonly

7440-41-7
7440-62-2
7440-47-3
7439-96-5
7440-48-4
7440-02-0
7440-50-8
7440-66-6
7440-38-2
7782-49-2
7439-98-7
7440-22-4
7440-43-9
7440-31-5
7440-36-0
7440-39-3
7440-28-0
7439-92-1
7440-61-1
7440-29-1
7439-93-2
7440-20-2
7440-74-6
7440-56-4
7440-60-0

Reviewed by:  Date: 8/11/09

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\150SMPL.D\150SMPL.D#
 Date Acquired: Aug 11 2009 12:51 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHG21 20X
 Misc Info: D9H040190
 Vial Number: 3309
 Current Method: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.M
 Calibration File: C:\ICPCHEM\1\DATA\AG081009A.B\NormISIS.C
 Last Cal. Update: Aug 11 2009 11:17 am
 Sample Type: SA
 Dilution Factor: 20.00
 Autodil Factor: Undiluted
 Final Dil Factor: 20.00

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	0.30	0.01	ppb	86.60	3600	
51 V	72	1	-1,221.00	-61.05	ppb	7.14	3600	
52 Cr	72	1	37,340.00	1867.00	ppb	1.46	3600	
55 Mn	72	1	38.66	1.93	ppb	1.87	3600	
59 Co	72	1	1.28	0.06	ppb	12.84	3600	
60 Ni	72	1	10.10	0.51	ppb	2.46	3600	
63 Cu	72	1	1.62	0.08	ppb	14.06	3600	
66 Zn	72	1	3.44	0.17	ppb	12.90	3600	
75 As	72	1	81.02	4.05	ppb	3.03	3600	
78 Se	72	1	12.12	0.61	ppb	85.72	3600	
95 Mo	72	1	32.44	1.62	ppb	7.03	3600	
107 Ag	115	1	0.15	0.01	ppb	36.04	3600	
111 Cd	115	1	-2.89	-0.14	ppb	50.48	3600	
118 Sn	115	1	1.48	0.07	ppb	9.61	3600	
121 Sb	115	1	0.55	0.03	ppb	27.63	3600	
137 Ba	115	1	68.84	3.44	ppb	1.42	3600	
205 Tl	165	1	0.44	0.02	ppb	14.59	3600	
208 Pb	165	1	0.85	0.04	ppb	4.09	3600	
232 Th	165	1	3.46	0.17	ppb	6.71	1000	
238 U	165	1	43.40	2.17	ppb	0.57	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291191	1.20	298913	97.4	30 - 120	
45 Sc	1	1704318	1.32	1771505	96.2	30 - 120	
72 Ge	1	791982	0.63	851994	93.0	30 - 120	
115 In	1	2092951	0.24	2290579	91.4	30 - 120	
165 Ho	1	3157899	0.71	3269618	96.6	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\151 CCV.D\151 CCV.D#
 Date Acquired: Aug 11 2009 12:54 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: Aug 10 2009 11:54 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	50.31	ppb	1.79	50	100.6	90 - 110
51	V	72	1	47.72	ppb	0.57	50	95.4	90 - 110
52	Cr	72	1	48.34	ppb	0.27	50	96.7	90 - 110
55	Mn	72	1	48.11	ppb	0.40	50	96.2	90 - 110
59	Co	72	1	49.47	ppb	0.66	50	98.9	90 - 110
60	Ni	72	1	50.01	ppb	1.09	50	100.0	90 - 110
63	Cu	72	1	49.70	ppb	0.74	50	99.4	90 - 110
66	Zn	72	1	52.91	ppb	0.63	50	105.8	90 - 110
75	As	72	1	49.12	ppb	0.02	50	98.2	90 - 110
78	Se	72	1	48.81	ppb	3.68	50	97.6	90 - 110
95	Mo	72	1	49.73	ppb	0.70	50	99.5	90 - 110
107	Ag	115	1	49.12	ppb	0.72	50	98.2	90 - 110
111	Cd	115	1	50.09	ppb	0.40	50	100.2	90 - 110
118	Sn	115	1	48.97	ppb	0.36	50	97.9	90 - 110
121	Sb	115	1	49.59	ppb	0.64	50	99.2	90 - 110
137	Ba	115	1	49.21	ppb	0.73	50	98.4	90 - 110
205	Tl	165	1	50.40	ppb	1.40	50	100.8	90 - 110
208	Pb	165	1	50.34	ppb	1.31	50	100.7	90 - 110
232	Th	165	1	49.83	ppb	3.41	50	99.7	90 - 110
238	U	165	1	51.61	ppb	1.72	50	103.2	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6	Li	1	298153	1.60	298913	99.7	30 - 120
45	Sc	1	1730257	0.51	1771505	97.7	30 - 120
72	Ge	1	823986	1.07	851994	96.7	30 - 120
115	In	1	2255073	0.60	2290579	98.4	30 - 120
165	Ho	1	3304129	1.16	3269618	101.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\152_CCB.D\152_CCB.D#
 Date Acquired: Aug 11 2009 12:57 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: Aug 10 2009 11:54 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

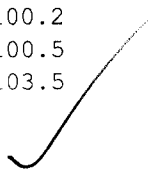
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	173.19	1.00	
51 V	72	1	0.010	ppb	756.86	1.00	
52 Cr	72	1	0.074	ppb	27.75	1.00	
55 Mn	72	1	0.077	ppb	12.16	1.00	
59 Co	72	1	0.014	ppb	33.69	1.00	
60 Ni	72	1	0.033	ppb	8.70	1.00	
63 Cu	72	1	0.015	ppb	93.89	1.00	
66 Zn	72	1	0.514	ppb	6.53	1.00	
75 As	72	1	0.008	ppb	121.93	1.00	
78 Se	72	1	0.477	ppb	100.92	1.00	
95 Mo	72	1	-0.063	ppb	25.38	1.00	
107 Ag	115	1	0.013	ppb	37.30	1.00	
111 Cd	115	1	0.020	ppb	88.08	1.00	
118 Sn	115	1	0.084	ppb	22.47	1.00	
121 Sb	115	1	0.051	ppb	1.64	1.00	
137 Ba	115	1	0.017	ppb	21.12	1.00	
205 Tl	165	1	0.032	ppb	6.00	1.00	
208 Pb	165	1	0.011	ppb	13.50	1.00	
232 Th	165	1	1.203	ppb	14.49	1.00	Fail
238 U	165	1	0.014	ppb	5.01	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299841	0.83	298913	100.3	30 - 120	
45 Sc	1	1753527	0.56	1771505	99.0	30 - 120	
72 Ge	1	853516	0.19	851994	100.2	30 - 120	
115 In	1	2301995	0.44	2290579	100.5	30 - 120	
165 Ho	1	3384139	1.05	3269618	103.5	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\153WASH.D\153WASH.D#
 Date Acquired: Aug 11 2009 01:00 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: Aug 10 2009 11:54 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	1.060 ppb	9.90	1.30	
51 V	72	1	5.022 ppb	1.13	6.50	
52 Cr	72	1	2.068 ppb	0.61	2.60	
55 Mn	72	1	0.987 ppb	1.84	1.30	
59 Co	72	1	1.023 ppb	1.68	1.30	
60 Ni	72	1	2.082 ppb	4.09	2.60	
63 Cu	72	1	2.089 ppb	1.60	2.60	
66 Zn	72	1	10.410 ppb	0.53	13.00	
75 As	72	1	5.031 ppb	1.06	6.50	
78 Se	72	1	5.439 ppb	8.08	6.50	
95 Mo	72	1	1.962 ppb	2.26	2.60	
107 Ag	115	1	5.147 ppb	1.92	6.50	
111 Cd	115	1	1.088 ppb	3.58	1.30	
118 Sn	115	1	10.280 ppb	1.11	13.00	
121 Sb	115	1	1.935 ppb	1.15	2.60	
137 Ba	115	1	1.067 ppb	5.26	1.30	
205 Tl	165	1	1.098 ppb	2.04	1.30	
208 Pb	165	1	1.070 ppb	1.69	1.30	
232 Th	165	1	2.403 ppb	2.53	2.60	
238 U	165	1	1.104 ppb	0.39	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300232	0.96	298913	100.4	30 - 120	
45 Sc	1	1774194	0.66	1771505	100.2	30 - 120	
72 Ge	1	859087	0.54	851994	100.8	30 - 120	
115 In	1	2320421	0.48	2290579	101.3	30 - 120	
165 Ho	1	3355379	1.38	3269618	102.6	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

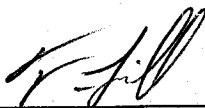
Lot ID: D9H050230

Client: Northgate Environmental

Batch(es) #: 9218437

Associated Samples: 1

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

Signature/Date:  8/11/09

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>
D9H050230	1 D	SE	LHJ5J1AH	20090811	6020TOTA	9218437	AG081009A	024
D9H050230	1 S	SE	LHJ5J1AG	20090811	6020TOTA	9218437	AG081009A	024
D9H050230	1 D	AS	LHJ5J1AF	20090811	6020TOTA	9218437	AG081009A	024
D9H050230	1 S	AS	LHJ5J1AE	20090811	6020TOTA	9218437	AG081009A	024
D9H050230	1	SE	LHJ5J1AC	20090811	6020TOTA	9218437	AG081009A	024
D9H050230	1	AS	LHJ5J1AA	20090811	6020TOTA	9218437	AG081009A	024

**METALS
PREPARATION LOGS
ICP-MS**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Batch Number: 9218437

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:

JRW

Prep Date: ~~08/06/09~~ 8/7/09
Due Date: 08/17/09

<u>Lot</u>	<u>Work Order</u>		<u>Initial Weight/Volume</u>
D9H060000 Water	LHQK3	B Due Date: SDG:	50 mL
D9H060000 Water	LHQK3	C Due Date: SDG:	50 mL
D9H050230 Water	LHJ5J Total	Due Date: 08/17/09 SDG:	50 mL
D9H050230 Water	LHJ5J Total	Due Date: 08/17/09 SDG:	50 mL
D9H050230 Water	LHJ5J Total	Due Date: 08/17/09 SDG:	50 mL
D9H050234 Water	LHJ51 Total	Due Date: 08/17/09 SDG:	50 mL

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
8/10/09*

*✓
8/12/09*

METALS PREP SHEET
SOP: DEN-IP-0014



TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH # 9218437
PREP DATE: 8/7/2009

ALLIQUOTTED BY: JRW
DIGESTED BY: JRW

CONSUMABLES USED

Digestion Cups: Manufacturer: Environmental Express Lot #: A901LS268

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-3775-09	6/23/10	100uL	15
2008Cal-2	STD-2637-09	5/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	3

TEMPERATURE CYCLES

Thermometer ID: 4110 Block & Cup #: 3/22

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃	700	93	1115	92
HNO ₃	1130	92	1200	96
HNO ₃				

Samples and QC revolved to: 50 mL Analyst's Initials JRW

COMMENTS:

I certify that all information above is correct and complete.

Signature: [Handwritten Signature]

Date: 8/7/09

**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

Aug-10-2009

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	1,000.0

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026 Volume (ml): 100.00
Date Prep./Opened: 04-01-2009
Date Expires(1): 12-01-2009 (1 Year)
pipette: Met 21

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Se	1,000.0	1.0000

STD3611-09, ICP-MS 1ppm Sn/Zn Analyst: DIAZL
 Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 10.000
 Date Prep./Opened: 06-16-2009
 Date Expires(1): 10-01-2009 (1 Year)

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
1000 Zn	10.000	1.0000

Parent Std No.: STD3610-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000
 Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	10.000	1.0000

STD4601-09, ICP-MS (024) INT STD BRC Analyst: DIAZL
 Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 250.00
 Date Prep./Opened: 08-03-2009
 Date Expires(1): 11-10-2009 (1 Year)
 Date Expires(2): 12-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20

Parent Std No.: STD1469-09, Germanium Stock Aliquot Amount (ml): 0.7500
 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	3,000.0

Parent Std No.: STD1972-09, Lithium 6 Stock Aliquot Amount (ml): 1.0000
 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	4,000.0

Parent Std No.: STD1973-09, Indium Stock Aliquot Amount (ml): 0.2500
 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	1,000.0

Parent Std No.: STD6317-08, Scandium Stock Aliquot Amount (ml): 0.5000
 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	2,000.0

Parent Std No.: STD6318-08, Holmium Stock

Aliquot Amount (ml): 0.2500

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	1,000.0

STD4712-09, ICP-MS BLANK

Analyst: DIAZL

Solvent: Water

Volume (ml): 1,000.0

Date Prep./Opened: 08-10-2009

Date Expires(1): 09-10-2009 (1 Month)

Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD4711-09, NITRIC ACID

Aliquot Amount (ml): 50.000

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
HNO3	100.00	5.0000

STD4713-09, ICP-MS 10 ppm Sn

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	10.000

STD4714-09, ICP-MS 100 ppb cal

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 50.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Expires(2): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Parent Std No.: STD3773-09, ICPMS 2008CAL-1 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
------------------	----------------------------	--------------------------

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.: STD3862-09, Iron Stock

Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	5,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn

Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4715-09, ICP-MS CCV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 100.00

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ag	20.000	50.000
Al	20.000	50.000
As	20.000	50.000
Ba	20.000	50.000
Be	20.000	50.000
Cd	20.000	50.000
Co	20.000	50.000
Cr	20.000	50.000
Cu	20.000	50.000
Mn	20.000	50.000
Ni	20.000	50.000

Pb	20.000	50.000
Se	20.000	50.000
Th	20.000	50.000
Tl	20.000	50.000
U	20.000	50.000
V	20.000	50.000
Zn	20.000	50.000

Parent Std No.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	50.000
Sb	20.000	50.000

Parent Std No.: STD3862-09, Iron Stock Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	2,500.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	50.000

STD4716-09, ICP-MS RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 10.000

Parent Std No.: STD3611-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1.0000	0.0090
1000 Zn	1.0000	0.0090

Parent Std No.: STD4714-09, ICP-MS 100 ppb cal Aliquot Amount (ml): 0.1000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 08-11-2009

<u>Component</u>	<u>Initial Conc (ug/L)</u>	<u>Final Conc (mg/L)</u>
Mo	100.00	0.0010
Sb	100.00	0.0010
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
Fe	5,000.0	0.0500
Sn	100.00	0.0010

STD4717-09, ICP-MS AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (2 Days)
 pipettes: Met 20 and Met 8

Volume (ml): 10.000

Parent Std No.: STD4716-09, ICP-MS RL STD

Aliquot Amount (ml): 2.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	0.0090	0.0018
1000 Zn	0.0090	0.0018
Mo	0.0010	0.0002
Sb	0.0010	0.0002
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
Fe	0.0500	0.0100
Sn	0.0010	0.0002

STD4718-09, ICP-MS ICSA

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 09-10-2009 (1 Month)
 Date Expires(2): 08-01-2010 (None)
 pipettes: Met 8

Volume (ml): 50.000

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 5.0000
 Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

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

STD4719-09, ICP-MS ICSAB

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (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.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.0500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/L)</u>
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.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4720-09, ICPMS LR STD 1000 ppb

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20 and Met 8

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	1,000.0
Sb	20.000	1,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	1,000.0

STD4721-09, ICPMS ICV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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

STD4722-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 50.000

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

STD4723-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 05-01-2010 (None)
 pipettes: Met 20

Volume (ml): 100.00

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	0.2000	2.0000
Sb	0.2000	2.0000
Sn	1.0000	10.000

Parent Std No.: STD3108-09, ICP-MS BRC LLCCV 1

Aliquot Amount (ml): 1.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Nb	4.0000	40.000
Pd	0.1000	1.0000
Pt	0.1000	1.0000
W	0.5000	5.0000

Reviewed By:

LRD 08/10/2009

File
AG081009A

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
3	Cal Blank				1.0 08/10/09 18:06		<input type="checkbox"/>
4	100 ppb				1.0 08/10/09 18:09		<input type="checkbox"/>
5	ICV				1.0 08/10/09 18:12		<input type="checkbox"/>
6	RLIV				1.0 08/10/09 18:15		<input type="checkbox"/>
7	ICB				1.0 08/10/09 18:17		<input type="checkbox"/>
8	RL STD				1.0 08/10/09 18:20		<input type="checkbox"/>
9	AFCEE RL				1.0 08/10/09 18:23		<input type="checkbox"/>
10	ALTSe				1.0 08/10/09 18:26		<input type="checkbox"/>
11	ICSA				1.0 08/10/09 18:28		<input type="checkbox"/>
12	ICSAB				1.0 08/10/09 18:31		<input type="checkbox"/>
13	RINSE				1.0 08/10/09 18:34		<input type="checkbox"/>
14	LR				1.0 08/10/09 18:36		<input type="checkbox"/>
15	RINSE				1.0 08/10/09 18:39		<input type="checkbox"/>
16	CCV				1.0 08/10/09 18:42		<input type="checkbox"/>
17	CCB				1.0 08/10/09 18:45		<input type="checkbox"/>
18	RLCV				1.0 08/10/09 18:47		<input type="checkbox"/>
19	LG9KP	D9G300166-1	9215482	04	1.0 08/10/09 18:50	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
20	CCV				1.0 08/10/09 18:53		<input type="checkbox"/>
21	CCB				1.0 08/10/09 18:55		<input type="checkbox"/>
22	RLCV				1.0 08/10/09 18:58		<input type="checkbox"/>
23	LG8F7	D9G290252-1	9212201	46	1.0 08/10/09 19:01		<input type="checkbox"/>
24	LG8F7P5	D9G290252	9212201		5.0 08/10/09 19:04		<input type="checkbox"/>
25	LG8F7Z	D9G290252-1	9212201		1.0 08/10/09 19:06		<input type="checkbox"/>
26	LG8F7S	D9G290252-1	9212201	46	1.0 08/10/09 19:09		<input type="checkbox"/>
27	LG8F7D	D9G290252-1	9212201	46	1.0 08/10/09 19:12		<input type="checkbox"/>
28	CCV				1.0 08/10/09 19:15		<input type="checkbox"/>
29	CCB				1.0 08/10/09 19:17		<input type="checkbox"/>
30	RLCV				1.0 08/10/09 19:20		<input type="checkbox"/>
31	LHFL0B	D9H030000	9215265	46	1.0 08/10/09 19:23		<input type="checkbox"/>
32	LHFL0C	D9H030000	9215265	46	1.0 08/10/09 19:26		<input type="checkbox"/>
33	LHA17	D9G300337-1	9215265	46	1.0 08/10/09 19:28	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
34	CCV				1.0 08/10/09 19:31		<input type="checkbox"/>
35	CCB				1.0 08/10/09 19:34		<input type="checkbox"/>
36	RLCV				1.0 08/10/09 19:37		<input type="checkbox"/>
37	LG86WB	D9G300000	9211083	04	1.0 08/10/09 19:39		<input type="checkbox"/>
38	LG86WC	D9G300000	9211083	04	1.0 08/10/09 19:42		<input type="checkbox"/>
39	LG8K3	D9G290261-1	9211083	04	1.0 08/10/09 19:45		<input type="checkbox"/>
40	LG8LE	D9G290261-3	9211083	04	1.0 08/10/09 19:48		<input type="checkbox"/>
41	LG8LF	D9G290261-4	9211083	04	1.0 08/10/09 19:50		<input type="checkbox"/>
42	LG8LH	D9G290261-5	9211083	04	1.0 08/10/09 19:53		<input type="checkbox"/>
43	LG8LJ	D9G290261-6	9211083	04	1.0 08/10/09 19:56		<input type="checkbox"/>
44	LG8LK	D9G290261-7	9211083	04	1.0 08/10/09 19:59		<input type="checkbox"/>
45	CCV				1.0 08/10/09 20:01		<input type="checkbox"/>
46	CCB				1.0 08/10/09 20:04		<input type="checkbox"/>
47	RLCV				1.0 08/10/09 20:07		<input type="checkbox"/>
48	LG8LKP5	D9G290261	9211083		5.0 08/10/09 20:10		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	LG8LKZ	D9G290261-7	9211083		1.0	08/10/09 20:12	<input type="checkbox"/>
50	LG8LKS	D9G290261-7	9211083	04	1.0	08/10/09 20:15	<input type="checkbox"/>
51	LG8LKD	D9G290261-7	9211083	04	1.0	08/10/09 20:18	<input type="checkbox"/>
52	LG8LL	D9G290261-8	9211083	04	1.0	08/10/09 20:20	<input type="checkbox"/>
53	LG8LM	D9G290261-9	9211083	04	1.0	08/10/09 20:23	<input type="checkbox"/>
54	LG8LN	D9G290261-10	9211083	04	1.0	08/10/09 20:26	<input type="checkbox"/>
55	LG8LP	D9G290261-11	9211083	04	1.0	08/10/09 20:29	<input type="checkbox"/>
56	CCV				1.0	08/10/09 20:32	<input type="checkbox"/>
57	CCB				1.0	08/10/09 20:34	<input type="checkbox"/>
58	RLCV				1.0	08/10/09 20:37	<input type="checkbox"/>
59	LG7LLB	D9G290000	9210208	46	1.0	08/10/09 20:40	<input type="checkbox"/>
60	LG7LLC	D9G290000	9210208	46	1.0	08/10/09 20:42	<input type="checkbox"/>
61	LG3FP	D9G240333-2	9210209	U1	1.0	08/10/09 20:45	<input type="checkbox"/>
62	LG3FR	D9G240333-3	9210209	U1	1.0	08/10/09 20:48	<input type="checkbox"/>
63	LG3FRP5	D9G240333	9210209		5.0	08/10/09 20:51	<input type="checkbox"/>
64	LG3FRZ	D9G240333-3	9210209		1.0	08/10/09 20:53	<input type="checkbox"/>
65	LG3FRS	D9G240333-3	9210209	U1	1.0	08/10/09 20:56	<input type="checkbox"/>
66	CCV				1.0	08/10/09 20:59	<input type="checkbox"/>
67	CCB				1.0	08/10/09 21:01	<input type="checkbox"/>
68	RLCV				1.0	08/10/09 21:04	<input type="checkbox"/>
69	LG3FRD	D9G240333-3	9210209	U1	1.0	08/10/09 21:07	<input type="checkbox"/>
70	LG3FV	D9G240333-4	9210208	U1	1.0	08/10/09 21:09	<input type="checkbox"/>
71	LG3FX	D9G240333-5	9210208	U1	1.0	08/10/09 21:12	<input type="checkbox"/>
72	LG6XM	D9G240333-12	9210209	U1	1.0	08/10/09 21:15	<input type="checkbox"/>
73	LG6XV	D9G240333-13	9210209	U1	1.0	08/10/09 21:18	<input type="checkbox"/>
74	LG6XW	D9G240333-14	9210208	U1	1.0	08/10/09 21:20	<input type="checkbox"/>
75	LG6X0	D9G240333-15	9210208	U1	1.0	08/10/09 21:23	<input type="checkbox"/>
76	CCV				1.0	08/10/09 21:26	<input type="checkbox"/>
77	CCB				1.0	08/10/09 21:28	<input type="checkbox"/>
78	RLCV				1.0	08/10/09 21:31	<input type="checkbox"/>
79	RINSE				1.0	08/10/09 21:34	<input type="checkbox"/>
80	RINSE				1.0	08/10/09 21:37	<input type="checkbox"/>
81	RINSE				1.0	08/10/09 21:39	<input type="checkbox"/>
82	RINSE				1.0	08/10/09 21:42	<input type="checkbox"/>
83	RINSE				1.0	08/10/09 21:45	<input type="checkbox"/>
84	RINSE				1.0	08/10/09 21:48	<input type="checkbox"/>
85	Cal Blank				1.0	08/10/09 21:50	<input type="checkbox"/>
86	Cal Blank				1.0	08/10/09 21:53	<input type="checkbox"/>
87	100 ppb				1.0	08/10/09 21:56	<input type="checkbox"/>
88	CCV				1.0	08/10/09 21:58	<input type="checkbox"/>
89	CCB				1.0	08/10/09 22:01	<input type="checkbox"/>
90	RLCV				1.0	08/10/09 22:04	<input type="checkbox"/>
91	ICSA				1.0	08/10/09 22:07	<input type="checkbox"/>
92	ICSAB				1.0	08/10/09 22:09	<input type="checkbox"/>
93	WASH				1.0	08/10/09 22:12	<input type="checkbox"/>
94	CCV				1.0	08/10/09 22:15	<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)	ICPMS_024 (024)	Reported: 08/11/09 10:33:12
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File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
95	CCB				1.0 08/10/09 22:18		<input type="checkbox"/>
96	RLCV				1.0 08/10/09 22:20		<input type="checkbox"/>
97	LHFD8B	D9H030000	9215165	MS	1.0 08/10/09 22:23		<input type="checkbox"/>
98	LHFD8C	D9H030000	9215165	MS	1.0 08/10/09 22:26		<input type="checkbox"/>
99	LHEPK	D9H010152-2	9215165	MS	1.0 08/10/09 22:29		<input type="checkbox"/>
100	LHEPKP5	D9H010152	9215165		5.0 08/10/09 22:31		<input type="checkbox"/>
101	LHEPKZ	D9H010152-2	9215165		1.0 08/10/09 22:34		<input type="checkbox"/>
102	LHEPL	D9H010152-3	9215165	MS	1.0 08/10/09 22:37		<input type="checkbox"/>
103	LHEPM	D9H010152-4	9215165	MS	1.0 08/10/09 22:39		<input type="checkbox"/>
104	CCV				1.0 08/10/09 22:42		<input type="checkbox"/>
105	CCB				1.0 08/10/09 22:45		<input type="checkbox"/>
106	RLCV				1.0 08/10/09 22:48		<input type="checkbox"/>
107	LHH8KBF	D9H050000	9217128	MD	1.0 08/10/09 22:51		<input type="checkbox"/>
108	LHH8KCF	D9H050000	9217128	MD	1.0 08/10/09 22:53		<input type="checkbox"/>
109	LHG1RF	D9H040187-2	9217128	MD	1.0 08/10/09 22:56		<input type="checkbox"/>
110	LHG1RP5F	D9H040187	9217128		5.0 08/10/09 22:59		<input type="checkbox"/>
111	LHG1RZF	D9H040187-2	9217128		1.0 08/10/09 23:02		<input type="checkbox"/>
112	LHG1RSF	D9H040187-2	9217128	MD	1.0 08/10/09 23:04		<input type="checkbox"/>
113	LHG1RDF	D9H040187-2	9217128	MD	1.0 08/10/09 23:07		<input type="checkbox"/>
114	CCV				1.0 08/10/09 23:10		<input type="checkbox"/>
115	CCB				1.0 08/10/09 23:13		<input type="checkbox"/>
116	RLCV				1.0 08/10/09 23:15		<input type="checkbox"/>
117	LHH8TB	D9H050000	9217132	MS	1.0 08/10/09 23:18		<input type="checkbox"/>
118	LHH8TC	D9H050000	9217132	MS	1.0 08/10/09 23:21		<input type="checkbox"/>
119	LHG1P 5X	D9H040187-1	9217132	MS	5.0 08/10/09 23:24		<input type="checkbox"/>
120	LHG1PP25	D9H040187	9217132		25.0 08/10/09 23:26		<input type="checkbox"/>
121	RINSE				1.0 08/10/09 23:32		<input type="checkbox"/>
122	RINSE				1.0 08/10/09 23:34		<input type="checkbox"/>
123	RINSE				1.0 08/10/09 23:37		<input type="checkbox"/>
124	RINSE				1.0 08/10/09 23:40		<input type="checkbox"/>
125	RINSE				1.0 08/10/09 23:43		<input type="checkbox"/>
126	RINSE				1.0 08/10/09 23:45		<input type="checkbox"/>
127	Cal Blank				1.0 08/10/09 23:48	<i>Cal Blank did not use.</i>	<input type="checkbox"/>
128	Cal Blank				1.0 08/10/09 23:51		<input type="checkbox"/>
129	100 ppb				1.0 08/10/09 23:54		<input type="checkbox"/>
130	CCV				1.0 08/10/09 23:56		<input type="checkbox"/>
131	CCB				1.0 08/10/09 23:59		<input type="checkbox"/>
132	RLCV				1.0 08/11/09 00:02		<input type="checkbox"/>
133	LHH8KBF	D9H050000	9217128	MD	1.0 08/11/09 00:05		<input type="checkbox"/>
134	LHH8KCF	D9H050000	9217128	MD	1.0 08/11/09 00:07		<input type="checkbox"/>
135	LHG1RF 10X	D9H040187-2	9217128	MD	10.0 08/11/09 00:10		<input type="checkbox"/>
136	LHG1RP50F	D9H040187	9217128		50.0 08/11/09 00:13		<input type="checkbox"/>
137	LHG1RZF	D9H040187-2	9217128		1.0 08/11/09 00:16		<input type="checkbox"/>
138	LHG1RSF 1C	D9H040187-2	9217128	MD	10.0 08/11/09 00:18		<input type="checkbox"/>
139	LHG1RDF 1C	D9H040187-2	9217128	MD	10.0 08/11/09 00:21		<input type="checkbox"/>
140	CCV				1.0 08/11/09 00:24		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
141	CCB				1.0	08/11/09 00:27	<input type="checkbox"/>
142	RLCV				1.0	08/11/09 00:29	<input type="checkbox"/>
143	LHH8TB	D9H050000	9217132	MS	1.0	08/11/09 00:32	<input type="checkbox"/>
144	LHH8TC	D9H050000	9217132	MS	1.0	08/11/09 00:35	<input type="checkbox"/>
145	LHG1P 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:38	<input type="checkbox"/>
146	LHG1PP50	D9H040187	9217132		50.0	08/11/09 00:41	<input type="checkbox"/>
147	LHG1PZ	D9H040187-1	9217132		1.0	08/11/09 00:43	<input type="checkbox"/>
148	LHG1PS 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:46	<input type="checkbox"/>
149	LHG1PD 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:49	<input type="checkbox"/>
150	LHG21 20X	D9H040190-1	9217132	MS	20.0	08/11/09 00:51	<input type="checkbox"/>
151	CCV				1.0	08/11/09 00:54	<input type="checkbox"/>
152	CCB				1.0	08/11/09 00:57	<input type="checkbox"/>
153	RLCV				1.0	08/11/09 01:00	<input type="checkbox"/>
154	LHQK3B	D9H060000	9218437	MS	1.0	08/11/09 01:03	<input type="checkbox"/>
155	LHQK3C	D9H060000	9218437	MS	1.0	08/11/09 01:05	<input type="checkbox"/>
156	LHJ5J	D9H050230-1	9218437	MS	1.0	08/11/09 01:08	<input type="checkbox"/>
157	LHJ5JP5	D9H050230	9218437		5.0	08/11/09 01:11	<input type="checkbox"/>
158	LHJ5JZ	D9H050230-1	9218437		1.0	08/11/09 01:14	<input type="checkbox"/>
159	LHJ5JS	D9H050230-1	9218437	MS	1.0	08/11/09 01:16	<input type="checkbox"/>
160	LHJ5JD	D9H050230-1	9218437	MS	1.0	08/11/09 01:19	<input type="checkbox"/>
161	LHJ51	D9H050234-1	9218437	MS	1.0	08/11/09 01:22	<input type="checkbox"/>
162	CCV				1.0	08/11/09 01:25	<input type="checkbox"/>
163	CCB				1.0	08/11/09 01:27	<input type="checkbox"/>
164	RLCV				1.0	08/11/09 01:30	<input type="checkbox"/>
165	RINSE				1.0	08/11/09 01:33	<input type="checkbox"/>
166	RINSE				1.0	08/11/09 01:35	<input type="checkbox"/>
167	RINSE				1.0	08/11/09 01:38	<input type="checkbox"/>
168	RINSE				1.0	08/11/09 01:41	<input type="checkbox"/>
169	RINSE				1.0	08/11/09 01:44	<input type="checkbox"/>
170	RINSE				1.0	08/11/09 01:46	<input type="checkbox"/>
171	Cal Blank				1.0	08/11/09 01:49	<input type="checkbox"/>
172	Cal Blank				1.0	08/11/09 01:52	<input type="checkbox"/>
173	100 ppb				1.0	08/11/09 01:55	<input type="checkbox"/>
174	CCV				1.0	08/11/09 01:57	<input type="checkbox"/>
175	CCB				1.0	08/11/09 02:00	<input type="checkbox"/>
176	RLCV				1.0	08/11/09 02:03	<input type="checkbox"/>
177	LHT80BF	D9H080000	9220058	MD	1.0	08/11/09 02:06	<input type="checkbox"/>
178	LHT80CF	D9H080000	9220058	MD	1.0	08/11/09 02:08	<input type="checkbox"/>
179	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:11	<input type="checkbox"/>
180	LHQGCP5F	D9H060361	9220058		5.0	08/11/09 02:14	<input type="checkbox"/>
181	LHQGCZF	D9H060361-2	9220058		1.0	08/11/09 02:17	<input type="checkbox"/>
182	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:19	<input type="checkbox"/>
183	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:22	<input type="checkbox"/>
184	CCV				1.0	08/11/09 02:25	<input type="checkbox"/>
185	CCB				1.0	08/11/09 02:28	<input type="checkbox"/>
186	RLCV				1.0	08/11/09 02:30	<input type="checkbox"/>

TEL 8/11/09

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
187	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:33	<input type="checkbox"/>
188	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:36	<input type="checkbox"/>
189	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:39	<input type="checkbox"/>
190	CCV				1.0	08/11/09 02:41	<input type="checkbox"/>
191	CCB				1.0	08/11/09 02:44	<input type="checkbox"/>
192	RLCV				1.0	08/11/09 02:47	<input type="checkbox"/>
193	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:50	<input type="checkbox"/>
194	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:52	<input type="checkbox"/>
195	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:55	<input type="checkbox"/>
196	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:58	<input type="checkbox"/>
197	CCV				1.0	08/11/09 03:01	<input type="checkbox"/>
198	CCB				1.0	08/11/09 03:04	<input type="checkbox"/>
199	RLCV				1.0	08/11/09 03:06	<input type="checkbox"/>
200	LHLPQ	D9H060174-1	9220029	MS	1.0	08/11/09 03:09	<input type="checkbox"/>
201	LHLP9	D9H060174-2	9220029	MS	1.0	08/11/09 03:12	<input type="checkbox"/>
202	LHLQF	D9H060174-3	9220029	MS	1.0	08/11/09 03:15	<input type="checkbox"/>
203	LHLQG	D9H060174-4	9220029	MS	1.0	08/11/09 03:17	<input type="checkbox"/>
204	LHLQH	D9H060174-5	9220029	MS	1.0	08/11/09 03:20	<input type="checkbox"/>
205	LHLQJ	D9H060174-6	9220029	MS	1.0	08/11/09 03:23	<input type="checkbox"/>
206	CCV				1.0	08/11/09 03:26	<input type="checkbox"/>
207	CCB				1.0	08/11/09 03:29	<input type="checkbox"/>
208	RLCV				1.0	08/11/09 03:31	<input type="checkbox"/>
209	LHREN	D9H070161-1	9220029	MS	1.0	08/11/09 03:34	<input type="checkbox"/>
210	LHREN5	D9H070161	9220029		5.0	08/11/09 03:37	<input type="checkbox"/>
211	LHRENT	D9H070161-1	9220029		1.0	08/11/09 03:40	<input type="checkbox"/>
212	LHRENS	D9H070161-1	9220029	MS	1.0	08/11/09 03:42	<input type="checkbox"/>
213	LHREND	D9H070161-1	9220029	MS	1.0	08/11/09 03:45	<input type="checkbox"/>
214	LHRFD	D9H070161-2	9220029	MS	1.0	08/11/09 03:48	<input type="checkbox"/>
215	LHRFF	D9H070161-3	9220029	MS	1.0	08/11/09 03:51	<input type="checkbox"/>
216	LHRGP	D9H070161-4	9220029	MS	1.0	08/11/09 03:53	<input type="checkbox"/>
217	CCV				1.0	08/11/09 03:56	<input type="checkbox"/>
218	CCB				1.0	08/11/09 03:59	<input type="checkbox"/>
219	RLCV				1.0	08/11/09 04:02	<input type="checkbox"/>
220	LHRGR	D9H070161-5	9220029	MS	1.0	08/11/09 04:05	<input type="checkbox"/>
221	LHRGV	D9H070161-6	9220029	MS	1.0	08/11/09 04:07	<input type="checkbox"/>
222	LHRGW	D9H070161-7	9220029	MS	1.0	08/11/09 04:10	<input type="checkbox"/>
223	LHRGX	D9H070161-8	9220029	MS	1.0	08/11/09 04:13	<input type="checkbox"/>
224	LHRG1	D9H070161-9	9220029	MS	1.0	08/11/09 04:16	<input type="checkbox"/>
225	LHRG2	D9H070161-10	9220029	MS	1.0	08/11/09 04:19	<input type="checkbox"/>
226	LHRG6	D9H070161-11	9220029	MS	1.0	08/11/09 04:21	<input type="checkbox"/>
227	CCV				1.0	08/11/09 04:24	<input type="checkbox"/>
228	CCB				1.0	08/11/09 04:27	<input type="checkbox"/>
229	RLCV				1.0	08/11/09 04:30	<input type="checkbox"/>
230	RINSE				1.0	08/11/09 04:32	<input type="checkbox"/>
231	RINSE				1.0	08/11/09 04:35	<input type="checkbox"/>
232	RINSE				1.0	08/11/09 04:38	<input type="checkbox"/>

For confirmation only. TEL 8/11/09

TEL 8/11/09 Did not use.

TEL 8/11/09

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
233	RINSE			1.0	08/11/09 04:41		<input type="checkbox"/>
234	RINSE			1.0	08/11/09 04:43		<input type="checkbox"/>
235	RINSE			1.0	08/11/09 04:46		<input type="checkbox"/>
236	Cal Blank			1.0	08/11/09 04:49	<i>8/11/09</i>	<input type="checkbox"/>
237	Cal Blank			1.0	08/11/09 04:52		<input type="checkbox"/>
238	100 ppb			1.0	08/11/09 04:54		<input type="checkbox"/>
239	CCV			1.0	08/11/09 04:57		<input type="checkbox"/>
240	CCB			1.0	08/11/09 05:00		<input type="checkbox"/>
241	RLCV			1.0	08/11/09 05:03		<input type="checkbox"/>
242	LHT3RBF	D9H080000	9220042	MD	1.0	08/11/09 05:05	<input type="checkbox"/>
243	LHT3RCF	D9H080000	9220042	MD	1.0	08/11/09 05:08	<input type="checkbox"/>
244	LHJ0JF	D9H050209-1	9220042	MD	1.0	08/11/09 05:11	<input type="checkbox"/>
245	LHJ02F	D9H050209-2	9220042	MD	1.0	08/11/09 05:14	<input type="checkbox"/>
246	LHJ02P5F	D9H050209	9220042		5.0	08/11/09 05:17	<input type="checkbox"/>
247	LHJ02ZF	D9H050209-2	9220042		1.0	08/11/09 05:19	<input type="checkbox"/>
248	LHJ02SF	D9H050209-2	9220042	MD	1.0	08/11/09 05:22	<input type="checkbox"/>
249	LHJ02DF	D9H050209-2	9220042	MD	1.0	08/11/09 05:25	<input type="checkbox"/>
250	LHKEWF	D9H050209-4	9220042	MD	1.0	08/11/09 05:28	<input type="checkbox"/>
251	CCV			1.0	08/11/09 05:30		<input type="checkbox"/>
252	CCB			1.0	08/11/09 05:33		<input type="checkbox"/>
253	RLCV			1.0	08/11/09 05:36		<input type="checkbox"/>
254	LHT4NB	D9H080000	9220047	MS	1.0	08/11/09 05:39	<input type="checkbox"/>
255	LHT4NC	D9H080000	9220047	MS	1.0	08/11/09 05:42	<input type="checkbox"/>
256	LHJ08	D9H050209-3	9220047	MS	1.0	08/11/09 05:44	<input type="checkbox"/>
257	LHKE1	D9H050209-5	9220047	MS	1.0	08/11/09 05:47	<input type="checkbox"/>
258	LHKE1P5	D9H050209	9220047		5.0	08/11/09 05:50	<input type="checkbox"/>
259	LHKE1Z	D9H050209-5	9220047		1.0	08/11/09 05:53	<input type="checkbox"/>
260	LHKE1S	D9H050209-5	9220047	MS	1.0	08/11/09 05:55	<input type="checkbox"/>
261	LHKE1D	D9H050209-5	9220047	MS	1.0	08/11/09 05:58	<input type="checkbox"/>
262	CCV			1.0	08/11/09 06:01		<input type="checkbox"/>
263	CCB			1.0	08/11/09 06:04		<input type="checkbox"/>
264	RLCV			1.0	08/11/09 06:06		<input type="checkbox"/>
265	LHT9RB	D9H080000	9220064	04	1.0	08/11/09 06:09	<input type="checkbox"/>
266	LHT9RC	D9H080000	9220064	04	1.0	08/11/09 06:12	<input type="checkbox"/>
267	LHJGD	D9H050137-5	9220064	04	1.0	08/11/09 06:15	<input type="checkbox"/>
268	LHJGDP5	D9H050137	9220064		5.0	08/11/09 06:18	<input type="checkbox"/>
269	LHJGDZ	D9H050137-5	9220064		1.0	08/11/09 06:20	<input type="checkbox"/>
270	LHJGDS	D9H050137-5	9220064	04	1.0	08/11/09 06:23	<input type="checkbox"/>
271	LHJGDD	D9H050137-5	9220064	04	1.0	08/11/09 06:26	<input type="checkbox"/>
272	LHR5A	D9H070252-1	9220064	04	1.0	08/11/09 06:29	<input type="checkbox"/>
273	CCV			1.0	08/11/09 06:31		<input type="checkbox"/>
274	CCB			1.0	08/11/09 06:34		<input type="checkbox"/>
275	RLCV			1.0	08/11/09 06:37		<input type="checkbox"/>
276	LHT0GB	D9H080000	9220033	MS	1.0	08/11/09 06:40	<input type="checkbox"/>
277	LHT0GC	D9H080000	9220033	MS	1.0	08/11/09 06:43	<input type="checkbox"/>
278	LHT0GB	D9H060214-1	9220033	MS	1.0	08/11/09 06:45	<input type="checkbox"/>

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

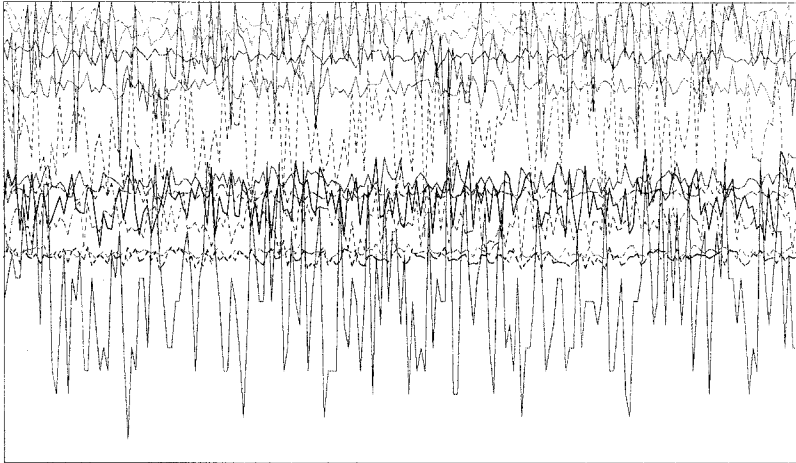
Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
279	LHMLH	D9H060214-2	9220033	MS	1.0	08/11/09 06:48	<input type="checkbox"/>
280	LHMN6	D9H060214-3	9220033	MS	1.0	08/11/09 06:51	<input type="checkbox"/>
281	LHTDQ	D9H070289-1	9220033	MS	1.0	08/11/09 06:54	<input type="checkbox"/>
282	LHTDW	D9H070289-2	9220033	MS	1.0	08/11/09 06:57	<input type="checkbox"/>
283	CCV				1.0	08/11/09 06:59	<input type="checkbox"/>
284	CCB				1.0	08/11/09 07:02	<input type="checkbox"/>
285	RLCV				1.0	08/11/09 07:05	<input type="checkbox"/>
286	LHTD0	D9H070289-3	9220033	MS	1.0	08/11/09 07:08	<input type="checkbox"/>
287	LHTD0P5	D9H070289	9220033		5.0	08/11/09 07:10	<input type="checkbox"/>
288	LHTD0Z	D9H070289-3	9220033		1.0	08/11/09 07:13	<input type="checkbox"/>
289	LHTD0S	D9H070289-3	9220033	MS	1.0	08/11/09 07:16	<input type="checkbox"/>
290	LHTD0D	D9H070289-3	9220033	MS	1.0	08/11/09 07:19	<input type="checkbox"/>
291	LHTD1	D9H070289-4	9220033	MS	1.0	08/11/09 07:22	<input type="checkbox"/>
292	CCV				1.0	08/11/09 07:24	<input type="checkbox"/>
293	CCB				1.0	08/11/09 07:27	<input type="checkbox"/>
294	RLCV				1.0	08/11/09 07:30	<input type="checkbox"/>

Ref 8/11/09 Did not use

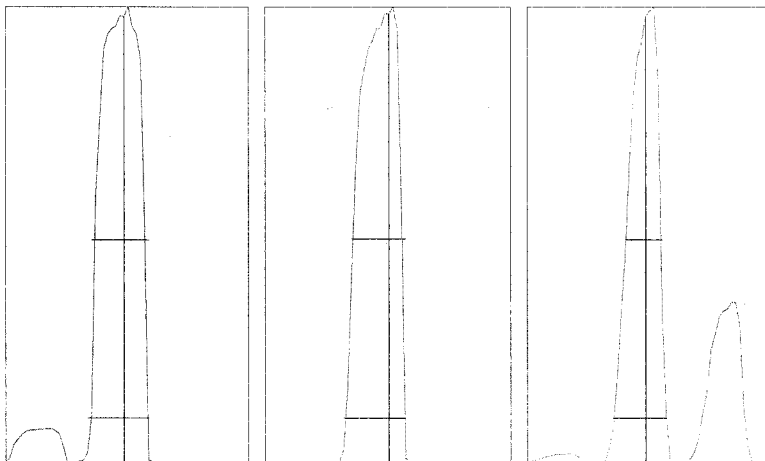
Tune Report

Tune File : NORM.U
 Comment :



Integration Time: 0.1000 sec
 Sampling Period: 1.5300 sec
 n: 200
 Oxide: 156/140 1.280%
 Doubly Charged: 70/140 1.306%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1277.0	1212.6	3.29	2.10
7	20,000	16661.0	16295.0	2.25	1.60
59	20,000	18792.0	18605.1	2.34	0.90
63	100	91.0	90.0	11.00	1.10
70	500	302.0	283.2	7.74	1.50
75	20	2.0	7.2	40.14	1.20
78	500	273.0	260.8	6.33	1.50
89	50,000	22278.0	22756.3	1.97	2.30
115	20,000	19390.0	19268.7	1.88	2.60
118	100	77.0	72.2	12.54	2.60
137	5,000	2253.0	2223.9	2.70	2.80
205	20,000	11452.0	11648.2	1.84	3.60
238	20,000	17180.0	17622.9	1.55	4.60
156/140	2	1.240%	1.301%	7.97	
70/140	2	1.528%	1.441%	7.98	



m/z:	7	89	205
Height:	16,281	23,001	11,900
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.65	0.45
W-10%:	0.7500	0.7500	0.6500

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
Smpl Depth : 7.5 mm
Torch-H : -0.8 mm
Torch-V : -0.3 mm
Carrier Gas : 0.83 L/min
Makeup Gas : 0.23 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 : -34 V
Omega Lens-ce : 1 V
Cell Entrance : -30 V
QP Focus : 7 V
Cell Exit : -30 V

===Octopole Parameters===

OctP RF : 180 V
OctP Bias : -18 V

===Q-Pole Parameters===

AMU Gain : 133
AMU Offset : 123
Axis Gain : 1.0006
Axis Offset : -0.03
QP Bias : -1 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: Aug 10 2009 05:25 pm

Mass[amu]	Element	P/A Factor
6	Li	0.059224
7	(Li)	Sensitivity too low
9	Be	0.065939
45	Sc	0.077958
51	V	0.079670
52	Cr	0.081495
53	(Cr)	Sensitivity too low
55	Mn	0.082881
59	Co	0.084650
60	Ni	0.085888
63	Cu	0.087500
66	Zn	0.087183
72	Ge	0.086826
75	As	0.086085
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
95	Mo	0.087962
98	(Mo)	0.087439
99	(Mo)	0.088211
106	(Cd)	0.090424
107	Ag	Sensitivity too low
108	(Cd)	0.090963
111	Cd	0.090902
114	Cd	0.090659
115	In	0.089830
118	Sn	0.090118
121	Sb	0.090217
137	Ba	Sensitivity too low
165	Ho	Sensitivity too low
205	Tl	0.095902
206	(Pb)	0.095184
207	(Pb)	0.095217
208	Pb	0.094502
232	Th	0.093768
238	U	0.093910

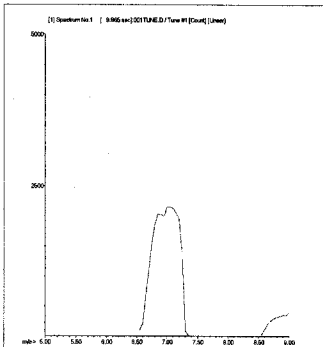
===Detector Parameters===

Discriminator: 8.0 mV
Analog HV: 1720 V
Pulse HV: 1390 V

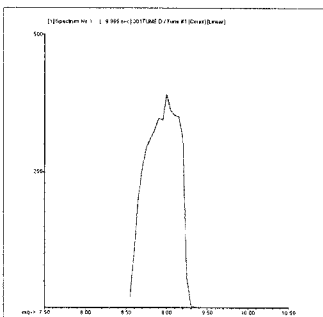
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\001TUNE.D
 Date Acquired: Aug 10 2009 06:01 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

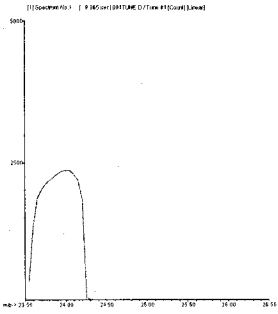
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	23394	23373	23283	23262	23454	23596	0.58	5.00	
9 Be	4040	4033	4013	4046	4048	4060	0.44	5.00	
24 Mg	27733	27886	27740	27593	28101	27346	1.03	5.00	
59 Co	126100	128137	127946	123341	126160	124916	1.61	5.00	
115 In	1508105	1512323	1511531	1497483	1509610	1509575	0.40	5.00	
208 Pb	69191	70426	69382	67952	68926	69270	1.29	5.00	
238 U	126765	128734	126188	125493	127220	126189	1.00	5.00	



7 Li
Mass Calib.
 Actual: 7.05
 Required: 6.90 - 7.10
 Flag:
Peak Width
 Actual: 0.60
 Required: 0.90
 Flag:



9 Be
Mass Calib.
 Actual: 9.05
 Required: 8.90 - 9.10
 Flag:
Peak Width
 Actual: 0.65
 Required: 0.90
 Flag:



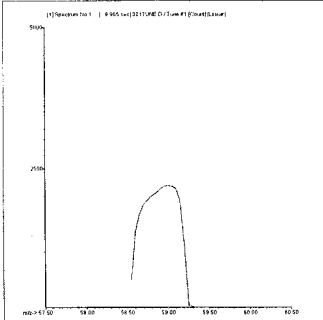
24 Mg

Mass Calib.

Actual: 24.00
Required: 23.90 - 24.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



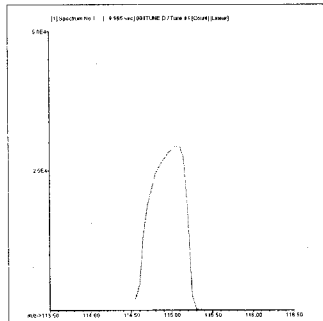
59 Co

Mass Calib.

Actual: 59.00
Required: 58.90 - 59.10
Flag:

Peak Width

Actual: 0.65
Required: 0.90
Flag:



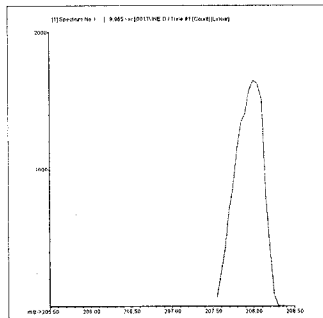
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



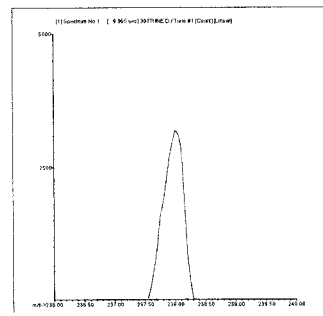
208 Pb

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: 0.60
Required: 0.90
Flag:

Tune Result:

Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\002CALB.D\002CALB.D#
 Date Acquired: Aug 10 2009 06:04 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: Aug 10 2009 06:04 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	354	31.69
52	Cr	72	1	4124	6.07
55	Mn	72	1	670	21.99
59	Co	72	1	70	14.29
60	Ni	72	1	117	21.57
63	Cu	72	1	557	9.22
66	Zn	72	1	2610	2.26
75	As	72	1	71	6.54
78	Se	72	1	770	11.10
95	Mo	72	1	70	37.80
107	Ag	115	1	17	34.64
111	Cd	115	1	30	71.04
118	Sn	115	1	417	12.08
121	Sb	115	1	17	34.64
137	Ba	115	1	41	16.88
205	Tl	165	1	118	27.20
208	Pb	165	1	282	3.80
232	Th	165	1	200	5.00
238	U	165	1	113	5.88

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	392728	0.47
45	Sc	1	2428129	0.41
72	Ge	1	1115573	2.35
115	In	1	2711701	0.96
165	Ho	1	3799176	0.71

Tune File# 1 c:\icpchem\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\AG081009A.B\003CALB.D\003CALB.D#
 Date Acquired: Aug 10 2009 06:06 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: Aug 10 2009 06:04 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	27	1017.20
52	Cr	72	1	3697	2.89
55	Mn	72	1	787	17.81
59	Co	72	1	37	56.77
60	Ni	72	1	467	11.80
63	Cu	72	1	650	9.23
66	Zn	72	1	885	2.73
75	As	72	1	65	15.87
78	Se	72	1	777	16.10
95	Mo	72	1	40	43.30
107	Ag	115	1	3	173.21
111	Cd	115	1	23	56.18
118	Sn	115	1	1010	5.24
121	Sb	115	1	28	48.50
137	Ba	115	1	14	70.50
205	Tl	165	1	81	10.34
208	Pb	165	1	252	5.34
232	Th	165	1	177	8.65
238	U	165	1	26	7.53

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	394687	0.94
45	Sc	1	2446753	1.77
72	Ge	1	1125847	1.05
115	In	1	2719186	2.09
165	Ho	1	3817349	0.25

Tune File# 1 c:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\005_ICV.D\005_ICV.D#
 Date Acquired: Aug 10 2009 06:12 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: Aug 10 2009 06:10 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	40.48 ppb	1.00	40	101.2	90 - 110	
51	V	72	39.31 ppb	0.98	40	98.3	90 - 110	
52	Cr	72	39.86 ppb	0.82	40	99.7	90 - 110	
55	Mn	72	39.36 ppb	0.49	40	98.4	90 - 110	
59	Co	72	39.81 ppb	1.21	40	99.5	90 - 110	
60	Ni	72	40.33 ppb	1.20	40	100.8	90 - 110	
63	Cu	72	39.84 ppb	0.87	40	99.6	90 - 110	
66	Zn	72	40.26 ppb	0.39	40	100.7	90 - 110	
75	As	72	39.99 ppb	0.13	40	100.0	90 - 110	
78	Se	72	41.87 ppb	3.08	40	104.7	90 - 110	
95	Mo	72	39.49 ppb	0.68	40	98.7	90 - 110	
107	Ag	115	39.86 ppb	0.43	40	99.7	90 - 110	
111	Cd	115	40.83 ppb	1.84	40	102.1	90 - 110	
118	Sn	115	39.26 ppb	1.02	40	98.2	90 - 110	
121	Sb	115	39.12 ppb	1.36	40	97.8	90 - 110	
137	Ba	115	40.11 ppb	0.69	40	100.3	90 - 110	
205	Tl	165	40.87 ppb	1.42	40	102.2	90 - 110	
208	Pb	165	40.72 ppb	1.25	40	101.8	90 - 110	
232	Th	165	44.35 ppb	1.41	40	110.9	90 - 110	Fail
238	U	165	40.53 ppb	0.56	40	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	386356	0.92	394687	97.9	30 - 120
45	Sc	1	2392521	0.40	2446753	97.8	30 - 120
72	Ge	1	1110457	0.44	1125847	98.6	30 - 120
115	In	1	2702975	0.93	2719186	99.4	30 - 120
165	Ho	1	3868261	0.70	3817349	101.3	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\AG081009A.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\AG081009A.B\006WASH.D\006WASH.D#
 Date Acquired: Aug 10 2009 06:15 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: Aug 10 2009 06:10 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	0.962 ppb	11.83	1.30	
51 V	72	1	5.098 ppb	0.72	6.50	
52 Cr	72	1	2.153 ppb	0.77	2.60	
55 Mn	72	1	1.013 ppb	1.93	1.30	
59 Co	72	1	1.046 ppb	1.77	1.30	
60 Ni	72	1	2.036 ppb	1.65	2.60	
63 Cu	72	1	2.079 ppb	2.63	2.60	
66 Zn	72	1	10.260 ppb	0.96	13.00	
75 As	72	1	5.112 ppb	0.38	6.50	
78 Se	72	1	4.868 ppb	3.66	6.50	
95 Mo	72	1	2.199 ppb	4.71	2.60	
107 Ag	115	1	5.190 ppb	1.63	6.50	
111 Cd	115	1	1.068 ppb	0.77	1.30	
118 Sn	115	1	10.230 ppb	1.10	13.00	
121 Sb	115	1	2.192 ppb	0.80	2.60	
137 Ba	115	1	1.075 ppb	3.75	1.30	
205 Tl	165	1	1.158 ppb	2.36	1.30	
208 Pb	165	1	1.072 ppb	0.99	1.30	
232 Th	165	1	3.344 ppb	3.13	2.60	
238 U	165	1	1.105 ppb	2.11	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389518	0.53	394687	98.7	30 - 120	
45 Sc	1	2376989	0.76	2446753	97.1	30 - 120	
72 Ge	1	1099932	0.58	1125847	97.7	30 - 120	
115 In	1	2703766	0.89	2719186	99.4	30 - 120	
165 Ho	1	3816929	0.48	3817349	100.0	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\AG081009A.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\AG081009A.B\008RLST.D\008RLST.D#
 Date Acquired: Aug 10 2009 06:20 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: Aug 10 2009 06:10 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	1.00 ppb	5.38	1	100.4	50 - 150
51	V	72	1	0.95 ppb	4.78	1	95.5	50 - 150
52	Cr	72	1	1.03 ppb	4.50	1	103.1	50 - 150
55	Mn	72	1	0.99 ppb	2.06	1	99.4	50 - 150
59	Co	72	1	1.02 ppb	1.61	1	102.4	50 - 150
60	Ni	72	1	0.92 ppb	5.43	1	92.3	50 - 150
63	Cu	72	1	1.06 ppb	1.60	1	106.0	50 - 150
66	Zn	72	1	10.99 ppb	2.05	10	109.9	50 - 150
75	As	72	1	1.02 ppb	3.26	1	102.0	50 - 150
78	Se	72	1	1.30 ppb	8.14	1	129.8	50 - 150
95	Mo	72	1	1.03 ppb	3.66	1	102.8	50 - 150
107	Ag	115	1	1.04 ppb	2.89	1	103.6	50 - 150
111	Cd	115	1	1.00 ppb	3.57	1	99.8	50 - 150
118	Sn	115	1	10.84 ppb	1.34	10	108.4	50 - 150
121	Sb	115	1	1.08 ppb	1.30	1	107.6	50 - 150
137	Ba	115	1	1.08 ppb	3.66	1	107.6	50 - 150
205	Tl	165	1	1.08 ppb	3.38	1	107.8	50 - 150
208	Pb	165	1	1.04 ppb	0.90	1	104.2	50 - 150
232	Th	165	1	1.14 ppb	2.04	1	113.7	50 - 150
238	U	165	1	1.07 ppb	1.31	1	107.4	50 - 150

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	381160	1.69	394687	96.6	30 - 120
45	Sc	1	2348126	1.16	2446753	96.0	30 - 120
72	Ge	1	1102409	1.34	1125847	97.9	30 - 120
115	In	1	2670308	0.31	2719186	98.2	30 - 120
165	Ho	1	3800403	0.92	3817349	99.6	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\009AFCE.D\009AFCE.D#
 Date Acquired: Aug 10 2009 06:23 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: Aug 10 2009 06:10 pm
 Sample Type: AFCEEERL
 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	0.21 ppb	37.49	0	104.1	80 - 120
51	V	72	1	0.18 ppb	11.11	0	93.6	80 - 120
52	Cr	72	1	0.20 ppb	4.41	0	95.1	80 - 120
55	Mn	72	1	0.18 ppb	9.10	0	92.5	80 - 120
59	Co	72	1	0.20 ppb	7.26	0	99.2	80 - 120
60	Ni	72	1	0.12 ppb	37.55	0	65.1	80 - 120
63	Cu	72	1	0.21 ppb	5.84	0	97.8	80 - 120
66	Zn	72	1	2.00 ppb	2.60	2	90.9	80 - 120
75	As	72	1	0.21 ppb	3.29	0	102.2	80 - 120
78	Se	72	1	0.57 ppb	37.21	0	218.1	80 - 120
95	Mo	72	1	0.23 ppb	17.06	0	112.2	80 - 120
107	Ag	115	1	0.19 ppb	8.42	0	91.3	80 - 120
111	Cd	115	1	0.18 ppb	11.73	0	92.5	80 - 120
118	Sn	115	1	2.13 ppb	0.61	2	98.2	80 - 120
121	Sb	115	1	0.22 ppb	3.38	0	102.6	80 - 120
137	Ba	115	1	0.20 ppb	2.70	0	94.9	80 - 120
205	Tl	165	1	0.23 ppb	1.38	0	107.1	80 - 120
208	Pb	165	1	0.21 ppb	2.17	0	102.0	80 - 120
232	Th	165	1	0.27 ppb	6.02	0	120.0	80 - 120
238	U	165	1	0.21 ppb	3.48	0	97.7	80 - 120

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	384831	0.38	394687	97.5	30 - 120
45	Sc	1	2381074	1.35	2446753	97.3	30 - 120
72	Ge	1	1108278	1.30	1125847	98.4	30 - 120
115	In	1	2695785	0.35	2719186	99.1	30 - 120
165	Ho	1	3782218	0.41	3817349	99.1	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\
 Tune File# 4 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\010SMPL.D\010SMPL.D#
 Date Acquired: Aug 10 2009 06:26 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: Aug 10 2009 06:10 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	153.00	3600	
52 Cr	72	1	0.00	0.00	ppb	726.14	3600	
55 Mn	72	1	-0.01	-0.01	ppb	114.24	3600	
59 Co	72	1	0.00	0.00	ppb	103.96	3600	
60 Ni	72	1	-0.03	-0.03	ppb	15.09	3600	
63 Cu	72	1	0.00	0.00	ppb	118.88	3600	
66 Zn	72	1	-0.11	-0.11	ppb	3.22	3600	
75 As	72	1	0.01	0.01	ppb	74.91	3600	
78 Se	72	1	2.14	2.14	ppb	18.71	3600	
95 Mo	72	1	0.01	0.01	ppb	88.11	3600	
107 Ag	115	1	0.00	0.00	ppb	18.18	3600	
111 Cd	115	1	0.00	0.00	ppb	245.41	3600	
118 Sn	115	1	-0.05	-0.05	ppb	21.00	3600	
121 Sb	115	1	0.02	0.02	ppb	14.62	3600	
137 Ba	115	1	0.00	0.00	ppb	77.19	3600	
205 Tl	165	1	0.02	0.02	ppb	18.17	3600	
208 Pb	165	1	0.00	0.00	ppb	132.48	3600	
232 Th	165	1	0.05	0.05	ppb	10.43	1000	
238 U	165	1	0.00	0.00	ppb	1446.10	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	384420	0.66	394687	97.4	30 - 120	
45 Sc	1	2363773	0.07	2446753	96.6	30 - 120	
72 Ge	1	1095031	0.87	1125847	97.3	30 - 120	
115 In	1	2709116	0.72	2719186	99.6	30 - 120	
165 Ho	1	3806731	0.23	3817349	99.7	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\AG081009A.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\AG081009A.B\011ICSA.D\011ICSA.D#
 Date Acquired: Aug 10 2009 06:28 pm
 Acq. Method: NormISIS.M QC Summary:
 Operator: TEL Analytes: Pass
 Sample Name: ICSA 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: Aug 10 2009 06:10 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	173.20	1.00	
51	V	72	1	-0.28 ppb	16.13	1.00	
52	Cr	72	1	0.68 ppb	7.15	1.00	
55	Mn	72	1	3.37 ppb	3.01	1.00	
59	Co	72	1	1.52 ppb	1.80	1.00	
60	Ni	72	1	1.33 ppb	7.03	1.00	
63	Cu	72	1	1.39 ppb	1.64	1.00	
66	Zn	72	1	2.60 ppb	3.64	10.00	
75	As	72	1	0.41 ppb	4.62	1.00	
78	Se	72	1	0.04 ppb	875.93	1.00	
95	Mo	72	1	2011.00 ppb	2.30	2000.00	
107	Ag	115	1	0.04 ppb	6.23	1.00	
111	Cd	115	1	0.24 ppb	38.98	1.00	
118	Sn	115	1	0.01 ppb	102.51	10.00	
121	Sb	115	1	0.27 ppb	5.72	1.00	
137	Ba	115	1	0.07 ppb	17.98	1.00	
205	Tl	165	1	0.04 ppb	40.80	1.00	
208	Pb	165	1	0.14 ppb	3.56	1.00	
232	Th	165	1	0.10 ppb	13.38	1.00	
238	U	165	1	0.00 ppb	19.44	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	339249	1.40	394687	86.0	30 - 120
45	Sc	1	2070580	0.61	2446753	84.6	30 - 120
72	Ge	1	927464	2.03	1125847	82.4	30 - 120
115	In	1	2246349	1.22	2719186	82.6	30 - 120
165	Ho	1	3443563	1.20	3817349	90.2	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\AG081009A.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\013SMPL.D\013SMPL.D#
 Date Acquired: Aug 10 2009 06:34 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: Aug 10 2009 06:10 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	173.21	3600	
51 V	72	1	0.00	0.00	ppb	1356.30	3600	
52 Cr	72	1	0.02	0.02	ppb	126.42	3600	
55 Mn	72	1	0.00	0.00	ppb	97.83	3600	
59 Co	72	1	0.01	0.01	ppb	17.25	3600	
60 Ni	72	1	-0.06	-0.06	ppb	24.77	3600	
63 Cu	72	1	0.00	0.00	ppb	68.55	3600	
66 Zn	72	1	0.82	0.82	ppb	5.26	3600	
75 As	72	1	0.01	0.01	ppb	65.52	3600	
78 Se	72	1	0.35	0.35	ppb	98.25	3600	
95 Mo	72	1	1.75	1.75	ppb	4.87	3600	
107 Ag	115	1	0.02	0.02	ppb	59.60	3600	
111 Cd	115	1	0.00	0.00	ppb	178.39	3600	
118 Sn	115	1	-0.02	-0.02	ppb	44.11	3600	
121 Sb	115	1	0.04	0.04	ppb	18.60	3600	
137 Ba	115	1	0.01	0.01	ppb	49.69	3600	
205 Tl	165	1	0.01	0.01	ppb	15.49	3600	
208 Pb	165	1	0.01	0.01	ppb	21.27	3600	
232 Th	165	1	0.96	0.96	ppb	17.84	1000	
238 U	165	1	0.02	0.02	ppb	8.06	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	417953	1.05	394687	105.9	30 - 120	
45 Sc	1	2370217	1.00	2446753	96.9	30 - 120	
72 Ge	1	1125021	0.71	1125847	99.9	30 - 120	
115 In	1	2769043	1.00	2719186	101.8	30 - 120	
165 Ho	1	3993502	0.73	3817349	104.6	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\AG081009A.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\AG081009A.B\014_LR.D\014_LR.D#
 Date Acquired: Aug 10 2009 06:36 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: Aug 10 2009 06:10 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	1004.00 ppb	0.66	1000	100.4	90 - 110	
51 V	72	1	923.60 ppb	1.56	1000	92.4	90 - 110	
52 Cr	72	1	957.30 ppb	0.88	1000	95.7	90 - 110	
55 Mn	72	1	944.20 ppb	0.62	1000	94.4	90 - 110	
59 Co	72	1	962.70 ppb	1.17	1000	96.3	90 - 110	
60 Ni	72	1	978.20 ppb	1.60	1000	97.8	90 - 110	
63 Cu	72	1	945.60 ppb	1.33	1000	94.6	90 - 110	
66 Zn	72	1	1015.00 ppb	2.51	1000	101.5	90 - 110	
75 As	72	1	1015.00 ppb	0.37	1000	101.5	90 - 110	
78 Se	72	1	1044.00 ppb	1.38	1000	104.4	90 - 110	
95 Mo	72	1	984.90 ppb	1.46	1000	98.5	90 - 110	
107 Ag	115	1	952.90 ppb	1.27	1000	95.3	90 - 110	
111 Cd	115	1	989.60 ppb	0.87	1000	99.0	90 - 110	
118 Sn	115	1	964.00 ppb	0.79	1000	96.4	90 - 110	
121 Sb	115	1	971.00 ppb	0.56	1000	97.1	90 - 110	
137 Ba	115	1	991.30 ppb	1.54	1000	99.1	90 - 110	
205 Tl	165	1	963.90 ppb	1.23	1000	96.4	90 - 110	
208 Pb	165	1	945.40 ppb	1.22	1000	94.5	90 - 110	
232 Th	165	1	1050.00 ppb	0.83	1000	105.0	90 - 110	
238 U	165	1	967.10 ppb	0.90	1000	96.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	396227	0.55	394687	100.4	30 - 120	
45 Sc	1	2360026	1.45	2446753	96.5	30 - 120	
72 Ge	1	1098700	1.12	1125847	97.6	30 - 120	
115 In	1	2734512	0.49	2719186	100.6	30 - 120	
165 Ho	1	3971158	0.63	3817349	104.0	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\015SMPL.D\015SMPL.D#
 Date Acquired: Aug 10 2009 06:39 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: Aug 10 2009 06:10 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	0.07	0.07	ppb	11.29	3600	
51 V	72	1	0.07	0.07	ppb	49.92	3600	
52 Cr	72	1	0.08	0.08	ppb	3.05	3600	
55 Mn	72	1	0.07	0.07	ppb	11.75	3600	
59 Co	72	1	0.08	0.08	ppb	22.22	3600	
60 Ni	72	1	-0.01	-0.01	ppb	189.04	3600	
63 Cu	72	1	0.07	0.07	ppb	14.57	3600	
66 Zn	72	1	0.90	0.90	ppb	4.20	3600	
75 As	72	1	0.12	0.12	ppb	13.74	3600	
78 Se	72	1	0.56	0.56	ppb	13.28	3600	
95 Mo	72	1	0.99	0.99	ppb	7.52	3600	
107 Ag	115	1	0.11	0.11	ppb	9.78	3600	
111 Cd	115	1	0.09	0.09	ppb	18.21	3600	
118 Sn	115	1	1.04	1.04	ppb	13.89	3600	
121 Sb	115	1	0.46	0.46	ppb	3.67	3600	
137 Ba	115	1	0.07	0.07	ppb	29.33	3600	
205 Tl	165	1	0.24	0.24	ppb	12.29	3600	
208 Pb	165	1	0.09	0.09	ppb	17.25	3600	
232 Th	165	1	6.26	6.26	ppb	20.02	1000	
238 U	165	1	0.15	0.15	ppb	1.91	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406521	1.45	394687	103.0	30 - 120	
45 Sc	1	2437916	0.81	2446753	99.6	30 - 120	
72 Ge	1	1134540	0.61	1125847	100.8	30 - 120	
115 In	1	2782594	0.81	2719186	102.3	30 - 120	
165 Ho	1	3984640	0.83	3817349	104.4	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\AG081009A.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\AG081009A.B\016_CCV.D\016_CCV.D#
 Date Acquired: Aug 10 2009 06:42 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: Aug 10 2009 06:10 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	49.23 ppb	1.97	50	98.5	90 - 110	
51	V	72	48.18 ppb	3.03	50	96.4	90 - 110	
52	Cr	72	49.10 ppb	2.47	50	98.2	90 - 110	
55	Mn	72	48.34 ppb	2.30	50	96.7	90 - 110	
59	Co	72	50.75 ppb	1.62	50	101.5	90 - 110	
60	Ni	72	49.33 ppb	1.83	50	98.7	90 - 110	
63	Cu	72	48.69 ppb	2.92	50	97.4	90 - 110	
66	Zn	72	52.56 ppb	1.77	50	105.1	90 - 110	
75	As	72	49.20 ppb	2.24	50	98.4	90 - 110	
78	Se	72	48.36 ppb	4.30	50	96.7	90 - 110	
95	Mo	72	50.11 ppb	1.65	50	100.2	90 - 110	
107	Ag	115	49.41 ppb	0.58	50	98.8	90 - 110	
111	Cd	115	49.05 ppb	0.87	50	98.1	90 - 110	
118	Sn	115	50.05 ppb	1.70	50	100.1	90 - 110	
121	Sb	115	49.82 ppb	1.05	50	99.6	90 - 110	
137	Ba	115	49.79 ppb	0.54	50	99.6	90 - 110	
205	Tl	165	50.63 ppb	1.41	50	101.3	90 - 110	
208	Pb	165	50.26 ppb	0.23	50	100.5	90 - 110	
232	Th	165	52.23 ppb	3.29	50	104.5	90 - 110	
238	U	165	50.28 ppb	1.54	50	100.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398790	1.16	394687	101.0	30 - 120
45	Sc	1	2428065	0.52	2446753	99.2	30 - 120
72	Ge	1	1132154	1.68	1125847	100.6	30 - 120
115	In	1	2783451	0.38	2719186	102.4	30 - 120
165	Ho	1	3944703	1.21	3817349	103.3	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\017_CCB.D\017_CCB.D#
 Date Acquired: Aug 10 2009 06:45 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: Aug 10 2009 06:10 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

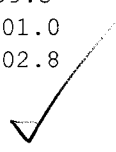
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.029 ppb	50.02	1.00	
51 V	72	1	0.019 ppb	104.60	1.00	
52 Cr	72	1	0.033 ppb	99.12	1.00	
55 Mn	72	1	0.000 ppb	2663.10	1.00	
59 Co	72	1	0.016 ppb	6.13	1.00	
60 Ni	72	1	-0.070 ppb	15.94	1.00	
63 Cu	72	1	0.009 ppb	119.60	1.00	
66 Zn	72	1	-0.124 ppb	10.27	1.00	
75 As	72	1	0.017 ppb	49.87	1.00	
78 Se	72	1	0.100 ppb	304.64	1.00	
95 Mo	72	1	0.179 ppb	6.53	1.00	
107 Ag	115	1	0.018 ppb	20.56	1.00	
111 Cd	115	1	0.001 ppb	1567.90	1.00	
118 Sn	115	1	0.177 ppb	26.58	1.00	
121 Sb	115	1	0.101 ppb	8.06	1.00	
137 Ba	115	1	0.018 ppb	26.37	1.00	
205 Tl	165	1	0.073 ppb	5.05	1.00	
208 Pb	165	1	0.011 ppb	12.50	1.00	
232 Th	165	1	1.499 ppb	14.31	1.00	Fail
238 U	165	1	0.023 ppb	2.40	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406279	0.13	394687	102.9	30 - 120	
45 Sc	1	2409755	0.92	2446753	98.5	30 - 120	
72 Ge	1	1118502	1.15	1125847	99.3	30 - 120	
115 In	1	2746559	0.29	2719186	101.0	30 - 120	
165 Ho	1	3925108	0.26	3817349	102.8	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\AG081009A.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\AG081009A.B\018WASH.D\018WASH.D#
 Date Acquired: Aug 10 2009 06:47 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: Aug 10 2009 06:10 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	1.105 ppb	6.50	1.30	
51 V	72	1	5.087 ppb	3.62	6.50	
52 Cr	72	1	2.163 ppb	2.98	2.60	
55 Mn	72	1	1.000 ppb	2.91	1.30	
59 Co	72	1	1.065 ppb	2.44	1.30	
60 Ni	72	1	2.023 ppb	1.63	2.60	
63 Cu	72	1	2.091 ppb	1.36	2.60	
66 Zn	72	1	10.460 ppb	2.37	13.00	
75 As	72	1	5.273 ppb	1.62	6.50	
78 Se	72	1	5.734 ppb	6.76	6.50	
95 Mo	72	1	2.210 ppb	2.32	2.60	
107 Ag	115	1	5.205 ppb	1.43	6.50	
111 Cd	115	1	1.050 ppb	4.55	1.30	
118 Sn	115	1	10.450 ppb	1.08	13.00	
121 Sb	115	1	2.010 ppb	2.30	2.60	
137 Ba	115	1	1.109 ppb	3.21	1.30	
205 Tl	165	1	1.150 ppb	1.01	1.30	
208 Pb	165	1	1.076 ppb	0.61	1.30	
232 Th	165	1	2.636 ppb	1.22	2.60	
238 U	165	1	1.112 ppb	1.72	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	404611	0.96	394687	102.5	30 - 120	
45 Sc	1	2418551	0.39	2446753	98.8	30 - 120	
72 Ge	1	1116189	1.64	1125847	99.1	30 - 120	
115 In	1	2767098	0.92	2719186	101.8	30 - 120	
165 Ho	1	3902436	1.37	3817349	102.2	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\AG081009A.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.D#
 Date Acquired: Aug 10 2009 09:53 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: Aug 10 2009 09:51 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	359	49.21
52	Cr	72	1	3327	12.19
55	Mn	72	1	673	7.00
59	Co	72	1	63	23.12
60	Ni	72	1	473	1.82
63	Cu	72	1	697	6.65
66	Zn	72	1	5275	0.36
75	As	72	1	61	14.81
78	Se	72	1	797	7.38
95	Mo	72	1	473	9.18
107	Ag	115	1	17	69.77
111	Cd	115	1	-4	468.40
118	Sn	115	1	883	12.90
121	Sb	115	1	41	5.27
137	Ba	115	1	28	7.48
205	Tl	165	1	71	17.08
208	Pb	165	1	277	1.82
232	Th	165	1	177	27.11
238	U	165	1	33	9.30

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	367189	0.76
45	Sc	1	2198650	1.42
72	Ge	1	1047607	1.49
115	In	1	2618639	1.31
165	Ho	1	3698894	0.81

Tune File# 1 c:\icpchem\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\AG081009A.B\087ICAL.D\087ICAL.D#
 Date Acquired: Aug 10 2009 09:56 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: Aug 10 2009 09:54 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	57454	2.68
51	V	72	1384602	1.93
52	Cr	72	1372006	0.28
55	Mn	72	1464416	1.26
59	Co	72	1764191	0.16
60	Ni	72	409818	1.72
63	Cu	72	979076	1.00
66	Zn	72	190440	1.50
75	As	72	169475	1.58
78	Se	72	28790	1.31
95	Mo	72	438801	1.48
107	Ag	115	1212795	1.22
111	Cd	115	227416	1.07
118	Sn	115	638283	0.63
121	Sb	115	733198	0.80
137	Ba	115	310900	0.47
205	Tl	165	1935696	0.85
208	Pb	165	2637712	0.66
232	Th	165	2426931	3.16
238	U	165	2684142	1.00

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357017	0.84	367189	97.2	30 - 120
45	Sc	1	2175000	2.00	2198650	98.9	30 - 120
72	Ge	1	1036228	0.96	1047607	98.9	30 - 120
115	In	1	2589357	0.36	2618639	98.9	30 - 120
165	Ho	1	3695829	0.53	3698894	99.9	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\AG081009A.B\086CALB.D\086CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\088_CCV.D\088_CCV.D#
 Date Acquired: Aug 10 2009 09:58 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: Aug 10 2009 09:56 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	49.65 ppb	0.92	50	99.3	90 - 110	
51	V	72	49.06 ppb	0.95	50	98.1	90 - 110	
52	Cr	72	49.92 ppb	0.60	50	99.8	90 - 110	
55	Mn	72	49.36 ppb	0.14	50	98.7	90 - 110	
59	Co	72	50.34 ppb	0.60	50	100.7	90 - 110	
60	Ni	72	49.67 ppb	0.42	50	99.3	90 - 110	
63	Cu	72	49.63 ppb	0.70	50	99.3	90 - 110	
66	Zn	72	52.10 ppb	0.54	50	104.2	90 - 110	
75	As	72	49.34 ppb	0.43	50	98.7	90 - 110	
78	Se	72	50.04 ppb	4.56	50	100.1	90 - 110	
95	Mo	72	49.69 ppb	0.55	50	99.4	90 - 110	
107	Ag	115	49.28 ppb	0.25	50	98.6	90 - 110	
111	Cd	115	49.24 ppb	0.70	50	98.5	90 - 110	
118	Sn	115	49.32 ppb	0.50	50	98.6	90 - 110	
121	Sb	115	49.29 ppb	0.48	50	98.6	90 - 110	
137	Ba	115	49.29 ppb	0.72	50	98.6	90 - 110	
205	Tl	165	49.61 ppb	2.22	50	99.2	90 - 110	
208	Pb	165	49.80 ppb	0.99	50	99.6	90 - 110	
232	Th	165	51.14 ppb	2.51	50	102.3	90 - 110	
238	U	165	50.39 ppb	1.56	50	100.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351371	1.00	367189	95.7	30 - 120
45	Sc	1	2164138	0.74	2198650	98.4	30 - 120
72	Ge	1	1029321	0.36	1047607	98.3	30 - 120
115	In	1	2597133	0.22	2618639	99.2	30 - 120
165	Ho	1	3706192	0.53	3698894	100.2	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\089_CCB.D\089_CCB.D#
 Date Acquired: Aug 10 2009 10:01 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: Aug 10 2009 09:56 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	0.000	ppb	0.00	1.00	
51 V	72	1	-0.009	ppb	338.45	1.00	
52 Cr	72	1	0.012	ppb	59.28	1.00	
55 Mn	72	1	0.022	ppb	43.47	1.00	
59 Co	72	1	0.010	ppb	28.80	1.00	
60 Ni	72	1	-0.073	ppb	8.59	1.00	
63 Cu	72	1	0.010	ppb	144.48	1.00	
66 Zn	72	1	-2.512	ppb	0.84	1.00	
75 As	72	1	0.021	ppb	33.66	1.00	
78 Se	72	1	0.361	ppb	104.40	1.00	
95 Mo	72	1	0.004	ppb	623.22	1.00	
107 Ag	115	1	0.021	ppb	6.66	1.00	
111 Cd	115	1	0.018	ppb	60.33	1.00	
118 Sn	115	1	0.058	ppb	14.07	1.00	
121 Sb	115	1	0.062	ppb	11.03	1.00	
137 Ba	115	1	0.017	ppb	12.47	1.00	
205 Tl	165	1	0.050	ppb	6.12	1.00	
208 Pb	165	1	0.014	ppb	17.03	1.00	
232 Th	165	1	1.175	ppb	19.44	1.00	Fail
238 U	165	1	0.018	ppb	4.03	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	354938	0.52	367189	96.7	30 - 120	
45 Sc	1	2151415	1.57	2198650	97.9	30 - 120	
72 Ge	1	1014505	0.33	1047607	96.8	30 - 120	
115 In	1	2580961	0.71	2618639	98.6	30 - 120	
165 Ho	1	3627865	0.73	3698894	98.1	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\090WASH.D\090WASH.D#
 Date Acquired: Aug 10 2009 10:04 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: Aug 10 2009 09:56 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	1.015 ppb	16.54	1.30	
51 V	72	1	5.138 ppb	2.71	6.50	
52 Cr	72	1	2.154 ppb	2.58	2.60	
55 Mn	72	1	1.034 ppb	3.82	1.30	
59 Co	72	1	1.063 ppb	0.98	1.30	
60 Ni	72	1	2.069 ppb	2.67	2.60	
63 Cu	72	1	2.077 ppb	4.34	2.60	
66 Zn	72	1	8.295 ppb	0.25	13.00	
75 As	72	1	5.196 ppb	0.91	6.50	
78 Se	72	1	5.418 ppb	18.66	6.50	
95 Mo	72	1	2.025 ppb	0.52	2.60	
107 Ag	115	1	5.220 ppb	3.85	6.50	
111 Cd	115	1	1.108 ppb	1.99	1.30	
118 Sn	115	1	10.370 ppb	3.55	13.00	
121 Sb	115	1	1.946 ppb	3.35	2.60	
137 Ba	115	1	1.029 ppb	4.99	1.30	
205 Tl	165	1	1.117 ppb	0.99	1.30	
208 Pb	165	1	1.077 ppb	3.12	1.30	
232 Th	165	1	2.386 ppb	1.30	2.60	
238 U	165	1	1.118 ppb	1.09	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	357020	1.30	367189	97.2	30 - 120	
45 Sc	1	2160440	1.21	2198650	98.3	30 - 120	
72 Ge	1	1029685	0.36	1047607	98.3	30 - 120	
115 In	1	2599204	1.03	2618639	99.3	30 - 120	
165 Ho	1	3673409	1.01	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\091ICSA.D\091ICSA.D#
 Date Acquired: Aug 10 2009 10:07 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 09:56 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Summary:

Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00 ppb	0.00	1.00
51	V	72	1	-0.25 ppb	33.72	1.00
52	Cr	72	1	0.68 ppb	2.34	1.00
55	Mn	72	1	3.51 ppb	0.92	1.00
59	Co	72	1	1.54 ppb	4.46	1.00
60	Ni	72	1	1.54 ppb	3.35	1.00
63	Cu	72	1	1.42 ppb	2.18	1.00
66	Zn	72	1	0.44 ppb	30.29	10.00
75	As	72	1	0.40 ppb	6.23	1.00
78	Se	72	1	0.69 ppb	56.98	1.00
95	Mo	72	1	2004.00 ppb	1.89	2000.00
107	Ag	115	1	0.04 ppb	16.72	1.00
111	Cd	115	1	0.32 ppb	32.82	1.00
118	Sn	115	1	0.08 ppb	26.70	10.00
121	Sb	115	1	0.28 ppb	3.97	1.00
137	Ba	115	1	0.07 ppb	7.46	1.00
205	Tl	165	1	0.05 ppb	45.56	1.00
208	Pb	165	1	0.13 ppb	2.60	1.00
232	Th	165	1	0.24 ppb	29.64	1.00
238	U	165	1	0.00 ppb	29.69	1.00

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326427	1.11	367189	88.9	30 - 120
45	Sc	1	1913508	1.00	2198650	87.0	30 - 120
72	Ge	1	902523	1.26	1047607	86.2	30 - 120
115	In	1	2206404	0.65	2618639	84.3	30 - 120
165	Ho	1	3333118	1.23	3698894	90.1	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\092ICSB.D\092ICSB.D#
 Date Acquired: Aug 10 2009 10:09 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: Aug 10 2009 09:56 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	99.06	1.64	100	99.1	80 - 120	
51	V	72	1	104.40	0.92	100	104.4	80 - 120	
52	Cr	72	1	101.90	0.77	100	101.9	80 - 120	
55	Mn	72	1	104.20	0.96	100	104.2	80 - 120	
59	Co	72	1	100.30	0.98	100	100.3	80 - 120	
60	Ni	72	1	95.98	1.20	100	96.0	80 - 120	
63	Cu	72	1	92.71	1.33	100	92.7	80 - 120	
66	Zn	72	1	101.10	1.14	100	101.1	80 - 120	
75	As	72	1	104.70	0.73	100	104.7	80 - 120	
78	Se	72	1	113.30	0.82	100	113.3	80 - 120	
95	Mo	72	1	2162.00	1.87	2100	103.0	80 - 120	
107	Ag	115	1	82.22	3.89	100	82.2	80 - 120	
111	Cd	115	1	96.12	2.03	100	96.1	80 - 120	
118	Sn	115	1	100.50	2.06	100	100.5	80 - 120	
121	Sb	115	1	102.50	1.80	100	102.5	80 - 120	
137	Ba	115	1	102.20	1.70	100	102.2	80 - 120	
205	Tl	165	1	94.99	0.97	100	95.0	80 - 120	
208	Pb	165	1	93.26	0.57	100	93.3	80 - 120	
232	Th	165	1	105.90	2.13	100	105.9	80 - 120	
238	U	165	1	99.43	0.45	100	99.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327794	0.59	367189	89.3	30 - 120
45	Sc	1	1916330	0.56	2198650	87.2	30 - 120
72	Ge	1	875267	0.68	1047607	83.5	30 - 120
115	In	1	2211280	1.50	2618639	84.4	30 - 120
165	Ho	1	3358970	0.46	3698894	90.8	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\AG081009A.B\086CALB.D\086CALB.D#

0 :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\AG081009A.B\093WASH.D\093WASH.D#
 Date Acquired: Aug 10 2009 10:12 pm
 Operator: TEL
 Sample Name: WASH
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 09:56 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	0.006 ppb	173.19	1.30	
51 V	72	1	-0.034 ppb	135.22	6.50	
52 Cr	72	1	0.000 ppb	5464.80	2.60	
55 Mn	72	1	0.019 ppb	10.91	1.30	
59 Co	72	1	0.009 ppb	18.44	1.30	
60 Ni	72	1	-0.069 ppb	6.69	2.60	
63 Cu	72	1	0.016 ppb	51.79	2.60	
66 Zn	72	1	-1.678 ppb	2.09	13.00	
75 As	72	1	0.020 ppb	87.04	6.50	
78 Se	72	1	0.273 ppb	159.00	6.50	
95 Mo	72	1	1.722 ppb	10.74	2.60	
107 Ag	115	1	0.016 ppb	7.48	6.50	
111 Cd	115	1	0.027 ppb	39.87	1.30	
118 Sn	115	1	0.008 ppb	139.77	13.00	
121 Sb	115	1	0.031 ppb	10.67	2.60	
137 Ba	115	1	0.014 ppb	37.96	1.30	
205 Tl	165	1	0.019 ppb	7.24	1.30	
208 Pb	165	1	0.014 ppb	25.78	1.30	
232 Th	165	1	1.029 ppb	17.84	2.60	
238 U	165	1	0.020 ppb	2.81	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	366369	0.31	367189	99.8	30 - 120	
45 Sc	1	2076235	0.60	2198650	94.4	30 - 120	
72 Ge	1	994316	1.14	1047607	94.9	30 - 120	
115 In	1	2560866	0.59	2618639	97.8	30 - 120	
165 Ho	1	3648181	1.84	3698894	98.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\094_CCV.D\094_CCV.D#
 Date Acquired: Aug 10 2009 10:15 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: Aug 10 2009 09:56 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	49.46 ppb	4.16	50	98.9	90 - 110	
51	V	72	48.94 ppb	0.53	50	97.9	90 - 110	
52	Cr	72	50.07 ppb	1.20	50	100.1	90 - 110	
55	Mn	72	49.34 ppb	1.59	50	98.7	90 - 110	
59	Co	72	50.31 ppb	1.34	50	100.6	90 - 110	
60	Ni	72	50.23 ppb	2.45	50	100.5	90 - 110	
63	Cu	72	49.54 ppb	2.01	50	99.1	90 - 110	
66	Zn	72	52.03 ppb	1.37	50	104.1	90 - 110	
75	As	72	49.61 ppb	1.73	50	99.2	90 - 110	
78	Se	72	50.01 ppb	0.38	50	100.0	90 - 110	
95	Mo	72	50.34 ppb	1.73	50	100.7	90 - 110	
107	Ag	115	49.34 ppb	1.02	50	98.7	90 - 110	
111	Cd	115	49.64 ppb	0.95	50	99.3	90 - 110	
118	Sn	115	49.84 ppb	1.63	50	99.7	90 - 110	
121	Sb	115	49.47 ppb	0.88	50	98.9	90 - 110	
137	Ba	115	49.80 ppb	0.36	50	99.6	90 - 110	
205	Tl	165	50.15 ppb	0.99	50	100.3	90 - 110	
208	Pb	165	50.50 ppb	1.80	50	101.0	90 - 110	
232	Th	165	50.90 ppb	3.30	50	101.8	90 - 110	
238	U	165	51.21 ppb	1.74	50	102.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	358196	0.69	367189	97.6	30 - 120
45	Sc	1	2129878	1.22	2198650	96.9	30 - 120
72	Ge	1	1014484	1.02	1047607	96.8	30 - 120
115	In	1	2569748	0.08	2618639	98.1	30 - 120
165	Ho	1	3684571	0.80	3698894	99.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\095_CCB.D\095_CCB.D#
 Date Acquired: Aug 10 2009 10:18 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: Aug 10 2009 09:56 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

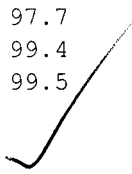
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.028	ppb	125.04	1.00	
51 V	72	1	-0.023	ppb	143.33	1.00	
52 Cr	72	1	-0.002	ppb	923.90	1.00	
55 Mn	72	1	0.028	ppb	32.43	1.00	
59 Co	72	1	0.009	ppb	26.21	1.00	
60 Ni	72	1	-0.067	ppb	9.77	1.00	
63 Cu	72	1	0.012	ppb	106.20	1.00	
66 Zn	72	1	-2.522	ppb	0.45	1.00	
75 As	72	1	0.008	ppb	139.22	1.00	
78 Se	72	1	-0.028	ppb	2465.70	1.00	
95 Mo	72	1	0.131	ppb	6.13	1.00	
107 Ag	115	1	0.017	ppb	9.39	1.00	
111 Cd	115	1	0.021	ppb	62.04	1.00	
118 Sn	115	1	0.019	ppb	40.06	1.00	
121 Sb	115	1	0.056	ppb	6.71	1.00	
137 Ba	115	1	0.019	ppb	11.10	1.00	
205 Tl	165	1	0.030	ppb	5.43	1.00	
208 Pb	165	1	0.013	ppb	16.52	1.00	
232 Th	165	1	1.108	ppb	18.47	1.00	Fail
238 U	165	1	0.017	ppb	5.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	365426	0.22	367189	99.5	30 - 120	
45 Sc	1	2161178	2.00	2198650	98.3	30 - 120	
72 Ge	1	1023099	0.56	1047607	97.7	30 - 120	
115 In	1	2603761	0.60	2618639	99.4	30 - 120	
165 Ho	1	3680889	1.54	3698894	99.5	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\096WASH.D\096WASH.D#
 Date Acquired: Aug 10 2009 10:20 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: Aug 10 2009 09:56 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	1.079 ppb	10.92	1.30	
51 V	72	1	5.130 ppb	1.45	6.50	
52 Cr	72	1	2.157 ppb	4.54	2.60	
55 Mn	72	1	1.063 ppb	4.53	1.30	
59 Co	72	1	1.050 ppb	1.09	1.30	
60 Ni	72	1	2.074 ppb	4.23	2.60	
63 Cu	72	1	2.123 ppb	1.17	2.60	
66 Zn	72	1	8.217 ppb	1.74	13.00	
75 As	72	1	5.217 ppb	0.89	6.50	
78 Se	72	1	5.154 ppb	5.40	6.50	
95 Mo	72	1	2.220 ppb	6.77	2.60	
107 Ag	115	1	5.308 ppb	1.41	6.50	
111 Cd	115	1	1.070 ppb	1.11	1.30	
118 Sn	115	1	10.290 ppb	0.24	13.00	
121 Sb	115	1	2.012 ppb	3.04	2.60	
137 Ba	115	1	1.086 ppb	2.73	1.30	
205 Tl	165	1	1.124 ppb	1.17	1.30	
208 Pb	165	1	1.090 ppb	1.55	1.30	
232 Th	165	1	2.384 ppb	1.99	2.60	
238 U	165	1	1.125 ppb	2.15	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	362803	1.37	367189	98.8	30 - 120	
45 Sc	1	2155781	1.24	2198650	98.1	30 - 120	
72 Ge	1	1022103	1.11	1047607	97.6	30 - 120	
115 In	1	2573971	0.56	2618639	98.3	30 - 120	
165 Ho	1	3674326	0.25	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.D#
 Date Acquired: Aug 10 2009 11:51 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: Aug 10 2009 11:49 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	-204	211.14
52	Cr	72	1	2947	6.78
55	Mn	72	1	517	14.80
59	Co	72	1	33	35.39
60	Ni	72	1	87	45.12
63	Cu	72	1	677	10.89
66	Zn	72	1	237	18.82
75	As	72	1	69	15.74
78	Se	72	1	613	7.25
95	Mo	72	1	487	21.90
107	Ag	115	1	7	86.63
111	Cd	115	1	9	55.22
118	Sn	115	1	527	25.33
121	Sb	115	1	46	21.06
137	Ba	115	1	21	55.68
205	Tl	165	1	54	35.92
208	Pb	165	1	217	1.32
232	Th	165	1	210	24.29
238	U	165	1	58	9.14

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	298913	0.41
45	Sc	1	1771505	1.08
72	Ge	1	851994	1.37
115	In	1	2290579	0.24
165	Ho	1	3269618	1.10

Tune File# 1 c:\icpchem\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\AG081009A.B\129ICAL.D\129ICAL.D#
 Date Acquired: Aug 10 2009 11:54 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: Aug 10 2009 11:52 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	44626	1.86
51	V	72	1103412	1.83
52	Cr	72	1112907	2.35
55	Mn	72	1182637	1.64
59	Co	72	1406971	1.17
60	Ni	72	322074	1.24
63	Cu	72	765226	0.44
66	Zn	72	149309	0.51
75	As	72	135226	0.52
78	Se	72	23661	3.26
95	Mo	72	358767	0.65
107	Ag	115	1018041	1.08
111	Cd	115	189633	1.01
118	Sn	115	539808	0.91
121	Sb	115	608141	0.64
137	Ba	115	268515	0.48
205	Tl	165	1732019	1.28
208	Pb	165	2365674	0.82
232	Th	165	2194146	3.15
238	U	165	2441986	1.18

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	289713	1.35	298913	96.9	30 - 120
45	Sc	1	1702546	1.03	1771505	96.1	30 - 120
72	Ge	1	813760	0.90	851994	95.5	30 - 120
115	In	1	2210431	0.19	2290579	96.5	30 - 120
165	Ho	1	3250286	0.48	3269618	99.4	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\130_CCV.D\130_CCV.D#
 Date Acquired: Aug 10 2009 11:56 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: Aug 10 2009 11:54 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	49.24 ppb	2.69	50	98.5	90 - 110	
51	V	72	48.00 ppb	0.71	50	96.0	90 - 110	
52	Cr	72	48.06 ppb	0.44	50	96.1	90 - 110	
55	Mn	72	48.06 ppb	0.53	50	96.1	90 - 110	
59	Co	72	49.30 ppb	0.89	50	98.6	90 - 110	
60	Ni	72	50.11 ppb	1.48	50	100.2	90 - 110	
63	Cu	72	49.80 ppb	0.70	50	99.6	90 - 110	
66	Zn	72	53.20 ppb	1.85	50	106.4	90 - 110	
75	As	72	49.30 ppb	0.12	50	98.6	90 - 110	
78	Se	72	51.84 ppb	3.80	50	103.7	90 - 110	
95	Mo	72	49.84 ppb	0.82	50	99.7	90 - 110	
107	Ag	115	48.57 ppb	0.91	50	97.1	90 - 110	
111	Cd	115	49.00 ppb	0.65	50	98.0	90 - 110	
118	Sn	115	48.97 ppb	0.11	50	97.9	90 - 110	
121	Sb	115	49.39 ppb	0.33	50	98.8	90 - 110	
137	Ba	115	49.11 ppb	0.94	50	98.2	90 - 110	
205	Tl	165	50.36 ppb	1.01	50	100.7	90 - 110	
208	Pb	165	50.41 ppb	1.00	50	100.8	90 - 110	
232	Th	165	52.89 ppb	2.77	50	105.8	90 - 110	
238	U	165	51.25 ppb	0.93	50	102.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	286336	1.45	298913	95.8	30 - 120
45	Sc	1	1694301	0.70	1771505	95.6	30 - 120
72	Ge	1	807041	0.62	851994	94.7	30 - 120
115	In	1	2219249	0.11	2290579	96.9	30 - 120
165	Ho	1	3221461	0.39	3269618	98.5	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\
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ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\131_CCB.D\131_CCB.D#
 Date Acquired: Aug 10 2009 11:59 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: Aug 10 2009 11:54 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	0.007 ppb	173.23	1.00	
51 V	72	1	0.027 ppb	52.26	1.00	
52 Cr	72	1	0.022 ppb	96.05	1.00	
55 Mn	72	1	0.093 ppb	16.51	1.00	
59 Co	72	1	0.013 ppb	10.56	1.00	
60 Ni	72	1	0.031 ppb	15.88	1.00	
63 Cu	72	1	0.039 ppb	36.46	1.00	
66 Zn	72	1	0.568 ppb	5.54	1.00	
75 As	72	1	0.016 ppb	167.31	1.00	
78 Se	72	1	0.407 ppb	77.30	1.00	
95 Mo	72	1	-0.004 ppb	423.30	1.00	
107 Ag	115	1	0.018 ppb	31.54	1.00	
111 Cd	115	1	0.010 ppb	43.83	1.00	
118 Sn	115	1	0.075 ppb	23.85	1.00	
121 Sb	115	1	0.059 ppb	6.87	1.00	
137 Ba	115	1	0.017 ppb	19.95	1.00	
205 Tl	165	1	0.053 ppb	9.73	1.00	
208 Pb	165	1	0.016 ppb	6.36	1.00	
232 Th	165	1	1.410 ppb	17.65	1.00	Fail
238 U	165	1	0.018 ppb	20.10	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	293448	0.70	298913	98.2	30 - 120	
45 Sc	1	1702764	0.71	1771505	96.1	30 - 120	
72 Ge	1	833810	0.47	851994	97.9	30 - 120	
115 In	1	2223577	1.33	2290579	97.1	30 - 120	
165 Ho	1	3240597	0.45	3269618	99.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\132WASH.D\132WASH.D#
 Date Acquired: Aug 11 2009 12:02 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: Aug 10 2009 11:54 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	0.899 ppb	14.08	1.30	
51 V	72	1	4.971 ppb	1.08	6.50	
52 Cr	72	1	1.987 ppb	1.47	2.60	
55 Mn	72	1	1.001 ppb	2.00	1.30	
59 Co	72	1	1.052 ppb	4.51	1.30	
60 Ni	72	1	2.068 ppb	5.49	2.60	
63 Cu	72	1	2.048 ppb	1.81	2.60	
66 Zn	72	1	10.340 ppb	0.83	13.00	
75 As	72	1	5.128 ppb	2.68	6.50	
78 Se	72	1	4.579 ppb	16.89	6.50	
95 Mo	72	1	2.046 ppb	2.72	2.60	
107 Ag	115	1	5.235 ppb	2.60	6.50	
111 Cd	115	1	1.066 ppb	2.10	1.30	
118 Sn	115	1	10.190 ppb	0.75	13.00	
121 Sb	115	1	1.946 ppb	1.04	2.60	
137 Ba	115	1	1.082 ppb	1.38	1.30	
205 Tl	165	1	1.105 ppb	0.56	1.30	
208 Pb	165	1	1.062 ppb	0.76	1.30	
232 Th	165	1	2.471 ppb	1.77	2.60	
238 U	165	1	1.103 ppb	0.44	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291146	0.69	298913	97.4	30 - 120	
45 Sc	1	1730528	0.89	1771505	97.7	30 - 120	
72 Ge	1	836746	1.09	851994	98.2	30 - 120	
115 In	1	2252218	0.93	2290579	98.3	30 - 120	
165 Ho	1	3295222	0.70	3269618	100.8	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\151 CCV.D\151 CCV.D#
 Date Acquired: Aug 11 2009 12:54 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: Aug 10 2009 11:54 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	50.31	ppb	1.79	50	100.6	90 - 110
51	V	72	1	47.72	ppb	0.57	50	95.4	90 - 110
52	Cr	72	1	48.34	ppb	0.27	50	96.7	90 - 110
55	Mn	72	1	48.11	ppb	0.40	50	96.2	90 - 110
59	Co	72	1	49.47	ppb	0.66	50	98.9	90 - 110
60	Ni	72	1	50.01	ppb	1.09	50	100.0	90 - 110
63	Cu	72	1	49.70	ppb	0.74	50	99.4	90 - 110
66	Zn	72	1	52.91	ppb	0.63	50	105.8	90 - 110
75	As	72	1	49.12	ppb	0.02	50	98.2	90 - 110
78	Se	72	1	48.81	ppb	3.68	50	97.6	90 - 110
95	Mo	72	1	49.73	ppb	0.70	50	99.5	90 - 110
107	Ag	115	1	49.12	ppb	0.72	50	98.2	90 - 110
111	Cd	115	1	50.09	ppb	0.40	50	100.2	90 - 110
118	Sn	115	1	48.97	ppb	0.36	50	97.9	90 - 110
121	Sb	115	1	49.59	ppb	0.64	50	99.2	90 - 110
137	Ba	115	1	49.21	ppb	0.73	50	98.4	90 - 110
205	Tl	165	1	50.40	ppb	1.40	50	100.8	90 - 110
208	Pb	165	1	50.34	ppb	1.31	50	100.7	90 - 110
232	Th	165	1	49.83	ppb	3.41	50	99.7	90 - 110
238	U	165	1	51.61	ppb	1.72	50	103.2	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	298153	1.60	298913	99.7	30 - 120
45	Sc	1	1730257	0.51	1771505	97.7	30 - 120
72	Ge	1	823986	1.07	851994	96.7	30 - 120
115	In	1	2255073	0.60	2290579	98.4	30 - 120
165	Ho	1	3304129	1.16	3269618	101.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\152_CCB.D\152_CCB.D#
 Date Acquired: Aug 11 2009 12:57 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: Aug 10 2009 11:54 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

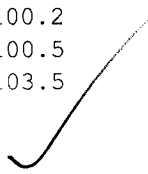
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	173.19	1.00	
51 V	72	1	0.010	ppb	756.86	1.00	
52 Cr	72	1	0.074	ppb	27.75	1.00	
55 Mn	72	1	0.077	ppb	12.16	1.00	
59 Co	72	1	0.014	ppb	33.69	1.00	
60 Ni	72	1	0.033	ppb	8.70	1.00	
63 Cu	72	1	0.015	ppb	93.89	1.00	
66 Zn	72	1	0.514	ppb	6.53	1.00	
75 As	72	1	0.008	ppb	121.93	1.00	
78 Se	72	1	0.477	ppb	100.92	1.00	
95 Mo	72	1	-0.063	ppb	25.38	1.00	
107 Ag	115	1	0.013	ppb	37.30	1.00	
111 Cd	115	1	0.020	ppb	88.08	1.00	
118 Sn	115	1	0.084	ppb	22.47	1.00	
121 Sb	115	1	0.051	ppb	1.64	1.00	
137 Ba	115	1	0.017	ppb	21.12	1.00	
205 Tl	165	1	0.032	ppb	6.00	1.00	
208 Pb	165	1	0.011	ppb	13.50	1.00	
232 Th	165	1	1.203	ppb	14.49	1.00	Fail
238 U	165	1	0.014	ppb	5.01	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299841	0.83	298913	100.3	30 - 120	
45 Sc	1	1753527	0.56	1771505	99.0	30 - 120	
72 Ge	1	853516	0.19	851994	100.2	30 - 120	
115 In	1	2301995	0.44	2290579	100.5	30 - 120	
165 Ho	1	3384139	1.05	3269618	103.5	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\153WASH.D\153WASH.D#
 Date Acquired: Aug 11 2009 01:00 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: Aug 10 2009 11:54 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	1.060 ppb	9.90	1.30	
51 V	72	1	5.022 ppb	1.13	6.50	
52 Cr	72	1	2.068 ppb	0.61	2.60	
55 Mn	72	1	0.987 ppb	1.84	1.30	
59 Co	72	1	1.023 ppb	1.68	1.30	
60 Ni	72	1	2.082 ppb	4.09	2.60	
63 Cu	72	1	2.089 ppb	1.60	2.60	
66 Zn	72	1	10.410 ppb	0.53	13.00	
75 As	72	1	5.031 ppb	1.06	6.50	
78 Se	72	1	5.439 ppb	8.08	6.50	
95 Mo	72	1	1.962 ppb	2.26	2.60	
107 Ag	115	1	5.147 ppb	1.92	6.50	
111 Cd	115	1	1.088 ppb	3.58	1.30	
118 Sn	115	1	10.280 ppb	1.11	13.00	
121 Sb	115	1	1.935 ppb	1.15	2.60	
137 Ba	115	1	1.067 ppb	5.26	1.30	
205 Tl	165	1	1.098 ppb	2.04	1.30	
208 Pb	165	1	1.070 ppb	1.69	1.30	
232 Th	165	1	2.403 ppb	2.53	2.60	
238 U	165	1	1.104 ppb	0.39	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300232	0.96	298913	100.4	30 - 120	
45 Sc	1	1774194	0.66	1771505	100.2	30 - 120	
72 Ge	1	859087	0.54	851994	100.8	30 - 120	
115 In	1	2320421	0.48	2290579	101.3	30 - 120	
165 Ho	1	3355379	1.38	3269618	102.6	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\154_BLK.D\154_BLK.D#
 Date Acquired: Aug 11 2009 01:03 am
 Operator: TEL
 Sample Name: LHQK3B
 Misc Info: BLANK 9218437 6020
 Vial Number: 3310
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 11:54 pm
 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	0.000 ppb	0.00	2.00	
51 V	72	1	0.024 ppb	51.22	2.00	
52 Cr	72	1	0.093 ppb	26.90	2.00	
55 Mn	72	1	0.035 ppb	2.81	2.00	
59 Co	72	1	0.000 ppb	4119.30	2.00	
60 Ni	72	1	0.012 ppb	100.08	2.00	
63 Cu	72	1	0.027 ppb	16.09	2.00	
66 Zn	72	1	1.101 ppb	0.97	2.00	
75 As	72	1	0.002 ppb	745.48	2.00	
78 Se	72	1	0.588 ppb	93.05	2.00	
95 Mo	72	1	-0.103 ppb	5.18	2.00	
107 Ag	115	1	0.005 ppb	75.82	2.00	
111 Cd	115	1	-0.002 ppb	430.98	2.00	
118 Sn	115	1	0.113 ppb	31.18	2.00	
121 Sb	115	1	0.028 ppb	10.91	2.00	
137 Ba	115	1	0.019 ppb	26.98	2.00	
205 Tl	165	1	0.041 ppb	43.48	2.00	
208 Pb	165	1	0.005 ppb	12.88	2.00	
232 Th	165	1	0.258 ppb	20.31	2.00	
238 U	165	1	0.000 ppb	129.33	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	298312	0.78	298913	99.8	30 - 120	
45 Sc	1	1756308	0.68	1771505	99.1	30 - 120	
72 Ge	1	842165	0.39	851994	98.8	30 - 120	
115 In	1	2267067	0.90	2290579	99.0	30 - 120	
165 Ho	1	3375860	0.76	3269618	103.2	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\155_LCS.D\155_LCS.D#
 Date Acquired: Aug 11 2009 01:05 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHQK3C
 Misc Info: LCS
 Vial Number: 3311
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	38.88	1.99	40	97.2	80 - 120	
51 V	72	1	40.21	0.82	40	100.5	80 - 120	
52 Cr	72	1	40.03	1.69	40	100.1	80 - 120	
55 Mn	72	1	40.22	0.64	40	100.6	80 - 120	
59 Co	72	1	40.96	0.98	40	102.4	80 - 120	
60 Ni	72	1	41.32	1.78	40	103.3	80 - 120	
63 Cu	72	1	41.48	0.21	40	103.7	80 - 120	
66 Zn	72	1	39.63	0.64	40	99.1	80 - 120	
75 As	72	1	38.99	0.16	40	97.5	80 - 120	
78 Se	72	1	39.62	3.95	40	99.1	80 - 120	
95 Mo	72	1	40.65	1.13	40	101.6	80 - 120	
107 Ag	115	1	40.06	0.99	40	100.2	80 - 120	
111 Cd	115	1	39.40	0.64	40	98.5	80 - 120	
118 Sn	115	1	0.04	26.89	40	0.1	80 - 120	
121 Sb	115	1	39.07	1.40	40	97.7	80 - 120	
137 Ba	115	1	40.34	0.59	40	100.9	80 - 120	
205 Tl	165	1	41.23	0.76	40	103.1	80 - 120	
208 Pb	165	1	41.06	1.12	40	102.7	80 - 120	
232 Th	165	1	42.93	1.91	40	107.3	80 - 120	
238 U	165	1	42.30	1.12	40	105.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	297384	0.11	298913	99.5	30 - 120	
45 Sc	1	1725208	0.25	1771505	97.4	30 - 120	
72 Ge	1	808629	0.60	851994	94.9	30 - 120	
115 In	1	2260003	0.86	2290579	98.7	30 - 120	
165 Ho	1	3313254	0.19	3269618	101.3	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\156AREF.D\156AREF.D#
 Date Acquired: Aug 11 2009 01:08 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5J
 Misc Info: D9H050230
 Vial Number: 3312
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 Sample Type: AllRef
 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	0.03	0.03	ppb	114.88	3600	
51 V	72	1	-9.90	-9.90	ppb	25.72	3600	
52 Cr	72	1	1,007.00	1007.00	ppb	0.85	3600	
55 Mn	72	1	19.64	19.64	ppb	0.70	3600	
59 Co	72	1	0.55	0.55	ppb	7.19	3600	
60 Ni	72	1	3.96	3.96	ppb	3.51	3600	
63 Cu	72	1	0.90	0.90	ppb	3.77	3600	
66 Zn	72	1	1.17	1.17	ppb	3.46	3600	
75 As	72	1	92.87	92.87	ppb	0.39	3600	
78 Se	72	1	5.64	5.64	ppb	12.40	3600	
95 Mo	72	1	24.86	24.86	ppb	0.30	3600	
107 Ag	115	1	0.02	0.02	ppb	31.93	3600	
111 Cd	115	1	0.01	0.01	ppb	403.77	3600	
118 Sn	115	1	0.03	0.03	ppb	82.59	3600	
121 Sb	115	1	0.21	0.21	ppb	9.47	3600	
137 Ba	115	1	19.51	19.51	ppb	1.51	3600	
205 Tl	165	1	0.08	0.08	ppb	19.57	3600	
208 Pb	165	1	0.24	0.24	ppb	2.63	3600	
232 Th	165	1	1.10	1.10	ppb	40.15	1000	
238 U	165	1	36.88	36.88	ppb	0.69	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	295625	0.47	298913	98.9	30 - 120	
45 Sc	1	1742767	1.62	1771505	98.4	30 - 120	
72 Ge	1	723920	0.41	851994	85.0	30 - 120	
115 In	1	1949293	1.02	2290579	85.1	30 - 120	
165 Ho	1	2964923	0.45	3269618	90.7	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\157SDIL.D\157SDIL.D#
 Date Acquired: Aug 11 2009 01:11 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5JP5
 Misc Info: SERIAL DILUTION
 Vial Number: 3401
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 Sample Type: SDIL
 Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\156AREF.D\156AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.02 ppb	173.22	0.01	345.9	90 - 110	
51 V	72	1	1.19 ppb	77.76	-1.98	-60.2	90 - 110	
52 Cr	72	1	203.30 ppb	1.15	201.40	100.9	90 - 110	
55 Mn	72	1	4.07 ppb	1.14	3.93	103.5	90 - 110	
59 Co	72	1	0.12 ppb	3.86	0.11	108.4	90 - 110	
60 Ni	72	1	1.06 ppb	5.25	0.79	133.4	90 - 110	
63 Cu	72	1	0.20 ppb	1.14	0.18	112.3	90 - 110	
66 Zn	72	1	0.43 ppb	6.92	0.23	184.9	90 - 110	
75 As	72	1	18.64 ppb	0.50	18.57	100.4	90 - 110	
78 Se	72	1	1.40 ppb	65.32	1.13	123.7	90 - 110	
95 Mo	72	1	4.85 ppb	2.17	4.97	97.5	90 - 110	
107 Ag	115	1	0.00 ppb	30.74	0.00	85.3	90 - 110	
111 Cd	115	1	0.02 ppb	5.15	0.00	2042.1	90 - 110	
118 Sn	115	1	0.08 ppb	17.82	0.01	1290.1	90 - 110	
121 Sb	115	1	0.05 ppb	1.78	0.04	112.1	90 - 110	
137 Ba	115	1	4.06 ppb	3.06	3.90	104.1	90 - 110	
205 Tl	165	1	0.01 ppb	15.54	0.02	76.8	90 - 110	
208 Pb	165	1	0.05 ppb	4.33	0.05	112.9	90 - 110	
232 Th	165	1	0.09 ppb	13.25	0.22	39.3	90 - 110	
238 U	165	1	7.96 ppb	2.44	7.38	107.9	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	320819	0.37	298913	107.3	30 - 120	
45 Sc	1	1834250	2.10	1771505	103.5	30 - 120	
72 Ge	1	842554	0.30	851994	98.9	30 - 120	
115 In	1	2234431	0.67	2290579	97.5	30 - 120	
165 Ho	1	3347473	1.35	3269618	102.4	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\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 10:34:35

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHJ5JP5

Serial Dilution: 5.00

Sample Dilution: 1.00

Instrument: Agilent7500 Channel 272
File: AG081009A # 157 Method 6020_
Acquired: 08/11/2009 01:11:00 ICPMS_024 Matrix: AQUEOUS
Calibrated: 08/10/2009 23:51:00 Units: ug/L

Table with columns: CASN, Analyte Name, M/S, Area, Dilution, Sample, %Diff., MDL, Flag, Q. Rows include Beryllium, Vanadium, Chromium, Manganese, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Molybdenum, Silver, Cadmium, Tin, Antimony, Barium, Thallium, Lead, Uranium, Thorium, Lithium, Scandium, Indium, Germanium, Holmium.

* Analyte not requested for this batch, no MDL
NC : Serial dilution concentration < 100 X MDL
E : Difference greater than Limit (10%)

Reviewed by: [Signature] Date: 8/11/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\158PDS.D\158PDS.D#
 Date Acquired: Aug 11 2009 01:14 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5JZ
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3402
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	190.20	0.03	ppb	1.01	200	95.1	75 - 125	
51 V	72	1	201.90	-9.90	ppb	2.77	200	106.2	75 - 125	
52 Cr	72	1	1215.00	1007.00	ppb	0.86	200	100.7	75 - 125	
55 Mn	72	1	222.50	19.64	ppb	1.95	200	101.3	75 - 125	
59 Co	72	1	196.80	0.55	ppb	0.59	200	98.1	75 - 125	
60 Ni	72	1	190.90	3.96	ppb	0.82	200	93.6	75 - 125	
63 Cu	72	1	186.60	0.90	ppb	0.27	200	92.9	75 - 125	
66 Zn	72	1	180.70	1.17	ppb	0.48	200	89.8	75 - 125	
75 As	72	1	294.50	92.87	ppb	0.32	200	100.6	75 - 125	
78 Se	72	1	230.40	5.64	ppb	1.20	200	112.0	75 - 125	
95 Mo	72	1	236.40	24.86	ppb	0.88	200	105.1	75 - 125	
107 Ag	115	1	42.46	0.02	ppb	0.68	50	84.9	75 - 125	
111 Cd	115	1	178.90	0.01	ppb	1.22	200	89.4	75 - 125	
118 Sn	115	1	175.20	0.03	ppb	0.96	200	87.6	75 - 125	
121 Sb	115	1	192.40	0.21	ppb	0.92	200	96.1	75 - 125	
137 Ba	115	1	213.80	19.51	ppb	0.80	200	97.4	75 - 125	
205 Tl	165	1	173.20	0.08	ppb	1.27	200	86.6	75 - 125	
208 Pb	165	1	168.90	0.24	ppb	0.70	200	84.3	75 - 125	
232 Th	165	1	0.16	1.10	ppb	11.34	200	0.1	75 - 125	
238 U	165	1	214.20	36.88	ppb	0.92	200	90.4	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	296347	0.77	298913	99.1	30 - 120	
45 Sc	1	1782879	1.26	1771505	100.6	30 - 120	
72 Ge	1	721654	0.61	851994	84.7	30 - 120	
115 In	1	1942489	0.60	2290579	84.8	30 - 120	
165 Ho	1	2974004	0.68	3269618	91.0	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 10:34:38

Department: 090 (Metals) Source: Spreadsheet

Sample: LHJ5JZ Spike Dilution: 1.00 Sample Dilution: 1.00

Instrument: Agilent7500 Channel 272
File: AG081009A # 158 Method 6020_
Acquired: 08/11/2009 01:14:00 ICPMS_024 Matrix: AQUEOUS
Calibrated: 08/10/2009 23:51:00 Units: ug/L

Table with columns: CASN, Analyte Name, M/S, Area, Amount, Sample, %Rec., Spike, Flag, Q. Rows include Beryllium, Vanadium, Chromium, Manganese, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Molybdenum, Silver, Cadmium, Tin, Antimony, Barium, Thallium, Lead, Uranium, Thorium, Lithium, Scandium, Indium, Germanium, Holmium.

AS ready
Z
8/11/09

Reviewed by: [Signature] Date: 8/11/09

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\163_CCB.D\163_CCB.D#
 Date Acquired: Aug 11 2009 01:27 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: Aug 10 2009 11:54 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

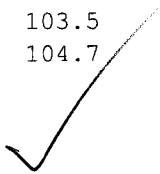
QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	100.15	1.00
51	V	72	1	0.021	ppb	50.63	1.00
52	Cr	72	1	0.033	ppb	46.89	1.00
55	Mn	72	1	0.076	ppb	2.39	1.00
59	Co	72	1	0.013	ppb	20.92	1.00
60	Ni	72	1	0.030	ppb	38.08	1.00
63	Cu	72	1	0.022	ppb	44.15	1.00
66	Zn	72	1	0.476	ppb	12.78	1.00
75	As	72	1	-0.004	ppb	98.42	1.00
78	Se	72	1	0.595	ppb	13.67	1.00
95	Mo	72	1	-0.056	ppb	29.24	1.00
107	Ag	115	1	0.013	ppb	11.48	1.00
111	Cd	115	1	0.020	ppb	28.22	1.00
118	Sn	115	1	0.095	ppb	23.08	1.00
121	Sb	115	1	0.048	ppb	4.98	1.00
137	Ba	115	1	0.019	ppb	36.45	1.00
205	Tl	165	1	0.031	ppb	9.59	1.00
208	Pb	165	1	0.013	ppb	7.84	1.00
232	Th	165	1	1.255	ppb	14.06	1.00
238	U	165	1	0.016	ppb	14.36	1.00

Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	320735	0.46	298913	107.3	30 - 120
45	Sc	1	1822900	0.60	1771505	102.9	30 - 120
72	Ge	1	877256	0.79	851994	103.0	30 - 120
115	In	1	2371725	0.81	2290579	103.5	30 - 120
165	Ho	1	3421991	0.96	3269618	104.7	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\164WASH.D\164WASH.D#
 Date Acquired: Aug 11 2009 01:30 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: Aug 10 2009 11:54 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	0.918 ppb	9.59	1.30	
51 V	72	1	4.944 ppb	1.70	6.50	
52 Cr	72	1	2.036 ppb	2.70	2.60	
55 Mn	72	1	1.004 ppb	2.24	1.30	
59 Co	72	1	1.034 ppb	3.53	1.30	
60 Ni	72	1	2.145 ppb	4.40	2.60	
63 Cu	72	1	2.011 ppb	3.99	2.60	
66 Zn	72	1	10.360 ppb	1.18	13.00	
75 As	72	1	5.021 ppb	2.56	6.50	
78 Se	72	1	6.213 ppb	5.56	6.50	
95 Mo	72	1	2.018 ppb	5.46	2.60	
107 Ag	115	1	5.178 ppb	3.40	6.50	
111 Cd	115	1	1.081 ppb	6.58	1.30	
118 Sn	115	1	10.290 ppb	1.81	13.00	
121 Sb	115	1	1.925 ppb	2.85	2.60	
137 Ba	115	1	1.049 ppb	4.83	1.30	
205 Tl	165	1	1.117 ppb	1.04	1.30	
208 Pb	165	1	1.062 ppb	1.56	1.30	
232 Th	165	1	2.407 ppb	0.53	2.60	
238 U	165	1	1.103 ppb	2.19	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	318356	0.12	298913	106.5	30 - 120	
45 Sc	1	1828409	0.73	1771505	103.2	30 - 120	
72 Ge	1	879735	0.27	851994	103.3	30 - 120	
115 In	1	2379297	0.71	2290579	103.9	30 - 120	
165 Ho	1	3392920	0.86	3269618	103.8	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Semivolatile GC

Supporting Documentation

Sample Sequence, Chromatograms

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9H050234

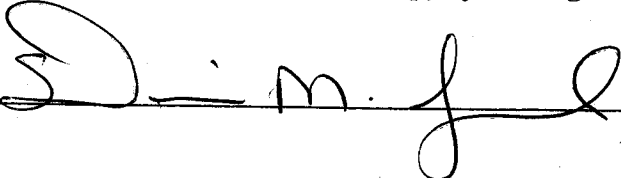
Client: Northgate

Method: 8141

Associated Samples: 1

Batch #(s): 9217511

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

Signature/Date:  8-18-09

**GC SEMIVOLATILE
ORGANIC EXTRACTION
LOG SHEETS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

R00058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 8/06/09
Time: 17:58:56

LEV	LEV	LEV	LEV
1	2	1	2
Y	Y	Y	Y
Y	Y	Y	Y
-	-	Y	Y

Blank Check MS/MSD
Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Extractionist: 009580 David Bourgerly
000452 Aaron S. Johnson
Concentrationist: 004788 Tegan Moore

* QC BATCH: 9217511 *
*

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

PREP DATE: 8/05/09 22:00
COMP DATE: 8/06/09 18:00

Reviewer/Date: MOORET / 8/06/09

Compounds, Organophosphorus (8141A)
LIQ/LIQ, SEP FUNNEL (BAH, P/P, TPH, Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRDN#/ WORK ORDER	TEST FIGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID		
8/10/09	8/17/09	D9H040197-001 IHG7R-1-AA	DR	09	P2 WATER	1050mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV0893 7.30.09
COMMENTS: D9H050234-001														
8/11/09	8/17/09	IHH51-1-AA	DR	09	P2 WATER	1056mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV0893 7.30.09
COMMENTS: D9H050000-511														
8/10/09	0/00/00	IHK3A-1-AAB	09	P2	WATER	1000mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV0883 7.28.09
COMMENTS: D9H050000-511														
8/10/09	0/00/00	IHK3A-1-ACC	09	P2	WATER	1000mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV0883 7.28.09
COMMENTS: D9H050000-511														
8/10/09	0/00/00	IHK3A-1-ADL	R	09	P2 WATER	1000mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV0883 7.28.09
COMMENTS: D9H050000-511														

DV-OP-0006/7 BAL:M27955 NA2S04:H09600 EIGA WATER+NACT:G47617 MECL2:H29J00
S/S:AJ-F W:DB SHARE QC:511/512 TURBOVAP B/C:40C HEXANE:H08E12 PIP:CON-6

R = RUSH C = CLP
E = EPA 600 D = EXP. DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 5

**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	8141 CCV GSV861				
4	Vial 4	LG34C1AA,MB				
5	Vial 5	LGW541AA,293-1				
6	Vial 6	LGW551AA,293-2				
7	Vial 7	LGW561AA,293-3				
8	Vial 8	LGW571AA,293-4				
9	Vial 9	LG8TE1AA,MB				
10	Vial 10	LGW581AA,293-5				
11	Vial 11	LGW591AA,293-6				
12	Vial 12	LGW6A1AA,293-7				
13	Vial 13	LGW6C1AA,293-8				
14	Vial 14	8141 CCV GSV861				
15	Vial 15	LHF291AA,MB				
16	Vial 16	LHF291AC,LCS				
17	Vial 17	LHF291AD,LCSD				
18	Vial 18	LG7QW1AA,166-1				
19	Vial 19	LHCVW1AA,166-2				
20	Vial 20	LHCX51AA,185-1				
21	Vial 21	LHF3A1AA,MB				
22	Vial 22	LHF3A1AC,LCS				
23	Vial 23	LHF3A1AD,LCSD				
24	Vial 24	LHC3A1AA,193-1				
25	Vial 25	LHC3E1AA,193-2				
26	Vial 26	LHC3G1AA,193-3				
27	Vial 27	LHC3J1AA,193-4				
28	Vial 28	LHC3M1AA,193-5				
29	Vial 29	LHC3P1AA,193-6				
30	Vial 30	LHC3Q1AA,193-7				
31	Vial 31	8141 CCV GSV861				
32	Vial 32	LHKE31AA,MB				
33	Vial 33	LHK3E1AC,LCS				
34	Vial 34	LHK3E1AD,LCSD				
35	Vial 35	LHHN71AA,268-1				
36	Vial 36	LHHN81AA,268-2				
37	Vial 37	LHHN91AA,268-3				
38	Vial 38	LHHPA1AA,268-4				
39	Vial 39	LHHPC1AA,268-5				
40	Vial 40	LHHPD1AA,268-6				
41	Vial 41	LHHPE1AA,268-7				
42	Vial 42	LHHPF1AA,268-8				
43	Vial 43	LHK3A1AA,MB				
44	Vial 44	LHK3A1AC,LCS				
45	Vial 45	LHK3A1AD,LCSD				
46	Vial 46	LHG7R1AA,197-1				
47	Vial 47	LHJ511AA,234-1				
48	Vial 48	8141 CCV GSV861				
49	Vial 49	LHFXQ1AA,MB				
50	Vial 50	LHFXQ1AC,LCS				
51	Vial 51	LHA071AA,332-1				
52	Vial 52	LHA071AD,332-1S				
53	Vial 53	LHA071AE,332-1D				
54	Vial 54	LHA081AA,332-2				
55	Vial 55	LHC041AA,187-1				
56	Vial 56	LHC1K1AA,187-2				
57	Vial 57	8141 CCV GSV861				
58	Vial 58	8141 L1 GSV862				
59	Vial 59	LG2M71AA,MB				

9206110

920462

9215363

9215364

9217512

921511

925329

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
====	=====	=====	=====	=====	=====	=====
60	Vial 60	LG2M71AC,LCS				
61	Vial 61	LGQ171AQ,204-2				
62	Vial 62	LGQ171D0,204-2S				
63	Vial 63	LGQ171D1,204-2D				
64	Vial 64	LGQ2E1AQ,204-7				
65	Vial 65	LGQ2F1AQ,204-8				
66	Vial 66	LGQ2G1AQ,204-9				
67	Vial 67	LGQ2H1AQ,204-10				
68	Vial 68	LGQ2J1AQ,204-11				
69	Vial 69	8141 CCV GSV861				
70	Vial 70	LGQ2K1AQ,204-12				
71	Vial 71	LGQ2L1AQ,204-13				
72	Vial 72	LGQ2M1AQ,204-14				
73	Vial 73	LGQ2N1AQ,204-15				
74	Vial 74	LGT191AT,319-17				
75	Vial 75	LGT2A1A5,319-18				
76	Vial 76	LGT2C1A5,319-19				
77	Vial 77	LGT2D1AG,319-20				
78	Vial 78	LGT2F1AG,319-22				
79	Vial 79	8141 CCV GSV861				
80	Vial 80	8141 L1 GSV862				
81	Vial 2	HEXANE/ACETONE				

205387

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_D.i
 Lab File ID: 031F3101.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.2258	11.0	15.0
2 Dichlorvos	2.5000	2.7870	11.5	15.0
3 Mevinphos	2.5000	2.7443	9.8	15.0
4 Chlormefos	2.5000	2.0479	18.1	15.0
5 Thionazin	2.5000	2.3435	6.3	15.0
6 Demeton-O	0.8125	0.7897	2.8	15.0
7 Ethoprop	2.5000	2.3220	7.1	15.0
8 Naled	2.5000	1.9523	21.9	15.0
9 Sulfotepp	2.5000	2.2640	9.4	15.0
10 Phorate	2.5000	2.2807	8.8	15.0
11 Dimethoate	2.5000	2.4396	2.4	15.0
12 Demeton-S	1.7000	1.6288	4.2	15.0
13 Simazine	2.5000	2.3033	7.9	15.0
14 Atrazine	2.5000	2.2355	10.6	15.0
15 propazine	2.5000	2.3108	7.6	15.0
17 Disulfoton	2.5000	2.2697	9.2	15.0
16 Diazinon	2.5000	2.4458	2.2	15.0
18 Methyl Parathion	2.5000	2.3951	4.2	15.0
19 Ronnel	2.5000	2.3906	4.4	15.0
20 Malathion	2.5000	2.4038	3.8	15.0
21 Fenthion	2.5000	2.3642	5.4	15.0
22 Parathion	2.5000	2.3705	5.2	15.0
23 Chlorpyrifos	2.5000	2.3100	7.6	15.0
24 Trichloronate	2.5000	2.3144	7.4	15.0
25 Anilazine	2.5000	1.5045	39.8	15.0
148 Merphos-A (Merphos)	2.5000	0.6130	75.5	999.0
26 Tetrachlorvinphos (Stirophos)	2.5000	2.2778	8.9	15.0
28 Tokuthion	2.5000	2.3012	8.0	15.0
149 Merphos-B (Merphos Oxone)	2.5000	9.1868	267.5	999.0
29 Carbophenothion-methyl	2.5000	2.3650	5.4	15.0
29 Fensulfothion	2.5000	2.4549	1.8	15.0
30 Bolstar / Famphur	5.0000	4.6225	7.5	15.0
32 Carbophenothion	2.5000	2.3569	5.7	15.0
31 Triphenyl phosphate	2.5000	2.4113	3.5	15.0
34 Phosmet	2.5000	2.3251	7.0	15.0
32 EPN	2.5000	2.2961	8.2	15.0
33 Azinphos-methyl	2.5000	2.4104	3.6	15.0
38 Azinphos-ethyl	2.5000	2.3407	6.4	15.0
36 Coumaphos	2.5000	2.3321	6.7	15.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 031F3101.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4185	3.3	15.0
27 Merphos	2.5000	1.9052	23.8	15.0

Average %D = 16.4

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\031F3101.D
 Lab Smp Id: 8141 CCV GSV861 Client Smp ID: 8141 CCV GSV861
 Inj Date : 09-AUG-2009 09:41
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 CCV GSV861
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Meth Date : 10-Aug-2009 13:50 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 31 Continuing Calibration Sample
 Dil Factor: 1.00000 Compound Sublist: 8141A.sub
 Integrator: Falcon
 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	4.276	4.267	(0.312)	1511498	2.50000	2.226
2 Dichlorvos	5.855	5.865	(0.427)	839402	2.50000	2.787
3 Mevinphos	9.395	9.407	(0.685)	393355	2.50000	2.744
§ 4 Chlormefos	9.510	9.502	(0.693)	1129772	2.50000	2.048
5 Thionazin	12.627	12.625	(0.920)	968769	2.50000	2.344
6 Demeton-O	12.886	12.876	(0.939)	267963	0.81250	0.7897
7 Ethoprop	13.207	13.205	(0.963)	862019	2.50000	2.322
8 Naled	13.483	13.482	(0.983)	265195	2.50000	1.952
* 9 Tributylphosphate	13.721	13.714	(1.000)	715675	2.00000	
10 Sulfotepp	14.151	14.143	(1.031)	1268566	2.50000	2.264
11 Phorate	14.236	14.227	(1.038)	841468	2.50000	2.281
12 Dimethoate	14.407	14.416	(1.050)	823573	2.50000	2.440
13 Demeton-S	14.685	14.682	(1.070)	496632	1.70000	1.629
14 Simazine	14.786	14.783	(1.078)	284410	2.50000	2.303
15 Atrazine	15.003	14.997	(1.093)	357193	2.50000	2.236
16 propazine	15.188	15.178	(1.107)	364498	2.50000	2.311
17 Disulfoton	15.872	15.866	(0.586)	754464	2.50000	2.270
18 Diazinon	15.939	15.934	(0.589)	869762	2.50000	2.446
19 Methyl Parathion	16.841	16.829	(0.622)	620219	2.50000	2.395
20 Ronnel	17.466	17.456	(0.645)	648531	2.50000	2.391
21 Malathion	18.140	18.134	(0.670)	568931	2.50000	2.404
22 Fenthion	18.296	18.284	(0.676)	655118	2.50000	2.364
23 Parathion	18.401	18.392	(0.679)	661454	2.50000	2.370
24 Chlorpyrifos	18.461	18.451	(0.682)	764368	2.50000	2.310
25 Trichloronate	18.968	18.958	(0.700)	780571	2.50000	2.314
26 Anilazine	19.363	19.345	(0.715)	33653	2.50000	1.504
27 Merphos-A (Merphos)	19.811	19.804	(0.732)	118219	2.50000	0.6130
28 Tetrachlorvinphos (Stirophos)	20.538	20.532	(0.758)	427681	2.50000	2.278
29 Tokuthion	21.290	21.278	(0.786)	738148	2.50000	2.301
30 Merphos-B (Merphos Oxone)	21.546	21.536	(0.796)	476723	2.50000	9.187 (A)
31 Carbophenothion-methyl	22.270	22.254	(0.822)	523271	2.50000	2.365
32 Pensusfothion	22.470	22.465	(0.830)	490847	2.50000	2.455
33 Bolstar / Famphur	23.642	23.627	(0.873)	1276242	5.00000	4.622

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.962	23.947	(0.885)	611712	2.50000	2.357
\$ 35 Triphenyl phosphate	25.286	25.270	(0.934)	497509	2.50000	2.411 (A)
36 Phosmet	25.783	25.769	(0.952)	489114	2.50000	2.325
37 EPN	26.107	26.097	(0.964)	613089	2.50000	2.296
38 Azinphos-methyl	26.593	26.584	(0.982)	478641	2.50000	2.410
* 39 TOCP	27.082	27.076	(1.000)	472782	2.00000	
40 Azinphos-ethyl	27.178	27.172	(1.004)	575092	2.50000	2.341
41 Coumaphos	27.698	27.694	(1.023)	475708	2.50000	2.332
M 42 Total Demeton				764595	2.50000	2.418
M 43 Merphos				594942	2.50000	1.905

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i	Calibration Date: 08-AUG-2009
Lab File ID: 031F3101.D	Calibration Time: 23:23
Lab Smp Id: 8141 CCV GSV861	Client Smp ID: 8141 CCV GSV861
Analysis Type: SV	Level:
Quant Type: ISTD	Sample Type:
Operator: MPK/TLW	
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	630137	315069	1260274	715675	13.57
39 TOCP	431059	215530	862118	472782	9.68

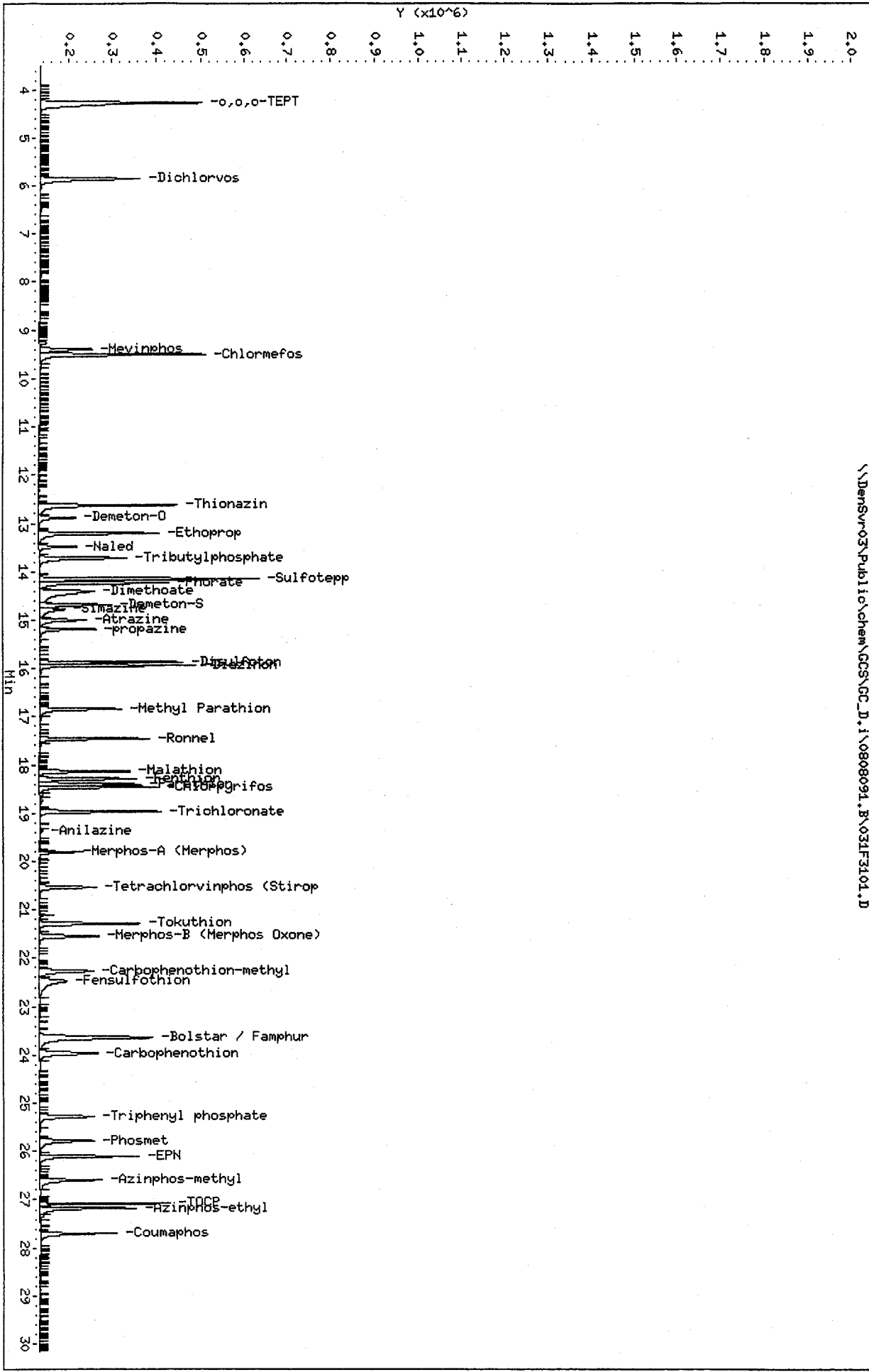
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.68	13.18	14.18	13.72	0.29
39 TOCP	27.08	26.58	27.58	27.08	0.01

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.

Data File: \\Densur03\Public\chem\CCS\GC_D.1\0808091.B\031F3101.D
 Date: 09-AUG-2009 09:41
 Client ID: 8141 CCV GSV861
 Sample Info: 8141 CCV GSV861
 Column phase: RTX-1MS

Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32

\\Densur03\Public\chem\CCS\GC_D.1\0808091.B\031F3101.D



CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC D.i
 Lab File ID: 031F3101.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.1948	12.2	15.0
2 Dichlorvos	2.5000	3.0343	21.4	15.0 <-
3 Chlormefos	2.5000	2.2956	8.2	15.0
4 Mevinphos	2.5000	2.7154	8.6	15.0
5 Demeton-O	0.8125	0.7742	4.7	15.0
6 Thionazin	2.5000	2.3959	4.2	15.0
7 Ethoprop	2.5000	2.4346	2.6	15.0
10 Naled	2.5000	2.0025	19.9	15.0 <-
145 Sulfotepp	2.5000	2.2144	11.4	15.0
8 Phorate	2.5000	2.2619	9.5	15.0
15 Demeton-S	1.7000	1.6662	2.0	15.0
10 Simazine	2.5000	2.1943	12.2	15.0
13 Atrazine / Propazine	5.0000	4.5293	9.4	15.0
16 Dimethoate	2.5000	2.4449	2.2	15.0
11 Diazinon	2.5000	2.2232	11.1	15.0
14 Disulfoton	2.5000	2.2446	10.2	15.0
23 Methyl Parathion	2.5000	2.5244	1.0	15.0
17 Ronnel	2.5000	2.3201	7.2	15.0
24 Malathion	2.5000	2.2455	10.2	15.0
18 Chlorpyrifos	2.5000	2.3252	7.0	15.0
20 Trichloronate	2.5000	2.1289	14.8	15.0
26 Parathion	2.5000	2.2843	8.6	15.0
19 Fenthion	2.5000	2.4066	3.7	15.0
151 Merphos-A (Merphos)	2.5000	1.0970	56.1	999.0
21 Anilazine	2.5000	0.5874	76.5	15.0 <-
27 Tetrachlorvinphos (stirophos)	2.5000	2.2471	10.1	15.0
25 Tokuthion	2.5000	2.2469	10.1	15.0
148 Merphos-B (Merphos oxone)	2.5000	10.0626	302.5	999.0
28 Carbophenothion methyl	2.5000	2.5167	0.7	15.0
30 Fensulfothion	2.5000	2.3383	6.5	15.0
28 Bolstar	2.5000	2.2277	10.9	15.0
30 Carbophenothion	2.5000	2.3228	7.1	15.0
33 Famphur	2.5000	2.4400	2.4	15.0
29 Triphenyl phosphate	2.5000	2.3228	7.1	15.0
32 EPN	2.5000	2.3319	6.7	15.0
34 Phosmet	2.5000	2.2755	9.0	15.0
34 Azinphos-methyl	2.5000	2.4504	2.0	15.0
35 Azinphos-ethyl	2.5000	2.4370	2.5	15.0
36 Coumaphos	2.5000	2.2424	10.3	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\031F3101.D
Report Date: 08/10/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 031F3101.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 09:41
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4404	2.4	15.0
22 Merphos	2.5000	2.3638	5.4	15.0

Average %D = 17.8

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\031F3101.D
 Lab Smp Id: 8141 CCV GSV861 Client Smp ID: 8141 CCV GSV861
 Inj Date : 09-AUG-2009 09:41
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 CCV GSV861
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Meth Date : 10-Aug-2009 13:57 williamst Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 31 Continuing Calibration Sample
 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	6.768	6.758	(0.418)	1783995	2.50000	2.195
2 Dichlorvos	8.961	8.952	(0.553)	1099384	2.50000	3.034
\$ 3 Chlormefos	12.894	12.885	(0.796)	1236467	2.50000	2.296
4 Mevinphos	13.012	13.006	(0.803)	606917	2.50000	2.715
5 Demeton-O	15.946	15.939	(0.984)	257493	0.81250	0.7742
6 Thionazin	16.076	16.067	(0.992)	1180641	2.50000	2.396
* 7 Tributylphosphate	16.207	16.193	(1.000)	869227	2.00000	
8 Ethoprop	16.344	16.332	(1.008)	1060919	2.50000	2.435
9 Naled	16.930	16.921	(1.045)	313904	2.50000	2.002
10 Sulfotepp	17.241	17.234	(1.064)	1607889	2.50000	2.214
11 Phorate	17.277	17.268	(1.066)	830747	2.50000	2.262
12 Demeton-S	17.976	17.962	(1.109)	556101	1.70000	1.666
13 Simazine	18.377	18.368	(1.134)	209581	2.50000	2.194
14 Atrazine / Propazine	18.446	18.434	(1.138)	903586	5.00000	4.529
15 Dimethoate	18.580	18.569	(1.146)	1040465	2.50000	2.445
16 Diazinon	18.976	18.967	(1.171)	957851	2.50000	2.223
17 Disulfoton	19.239	19.231	(1.187)	976770	2.50000	2.245
18 Methyl Parathion	21.144	21.132	(0.736)	767635	2.50000	2.524 (A)
19 Ronnel	21.232	21.222	(0.740)	844352	2.50000	2.320
20 Malathion	22.506	22.492	(0.784)	658062	2.50000	2.246
21 Chlorpyrifos	22.655	22.644	(0.789)	791840	2.50000	2.325
22 Trichloronate	22.829	22.819	(0.795)	898043	2.50000	2.129
23 Parathion	22.880	22.866	(0.797)	857351	2.50000	2.284
24 Fenthion	22.954	22.942	(0.800)	896128	2.50000	2.406
25 Merphos-A (Merphos)	23.487	23.472	(0.818)	267733	2.50000	1.097
26 Anilazine	24.466	24.451	(0.852)	13303	2.50000	0.5874
27 Tetrachlorvinphos (stirophos)	25.878	25.869	(0.901)	541066	2.50000	2.247
28 Tokuthion	26.051	26.043	(0.907)	895411	2.50000	2.247
29 Merphos-B (Merphos oxone)	26.185	26.176	(0.912)	607315	2.50000	10.06 (A)
30 Carbophenothion methyl	27.005	26.999	(0.941)	701117	2.50000	2.517
31 Fensulfothion	27.243	27.237	(0.949)	566550	2.50000	2.338
32 Bolstar	27.351	27.347	(0.953)	849759	2.50000	2.228
33 Carbophenothion	27.464	27.460	(0.957)	740588	2.50000	2.323

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.649	27.644	(0.963)	710879	2.50000	2.440
\$ 35 Triphenyl phosphate	27.938	27.932	(0.973)	633318	2.50000	2.323
36 EPN	28.243	28.240	(0.984)	729226	2.50000	2.332
37 Phosmet	28.371	28.366	(0.988)	582690	2.50000	2.276
* 38 TOCP	28.709	28.705	(1.000)	630081	2.00000	
39 Azinphos-methyl	28.821	28.816	(1.004)	525509	2.50000	2.450
40 Azinphos-ethyl	29.131	29.127	(1.015)	556988	2.50000	2.437
41 Coumaphos	29.458	29.453	(1.026)	461082	2.50000	2.242
M 42 Total Demeton				813594	2.50000	2.440
M 43 Merphos				875048	2.50000	2.364 (A)

QC Flag Legend

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

TestAmerica

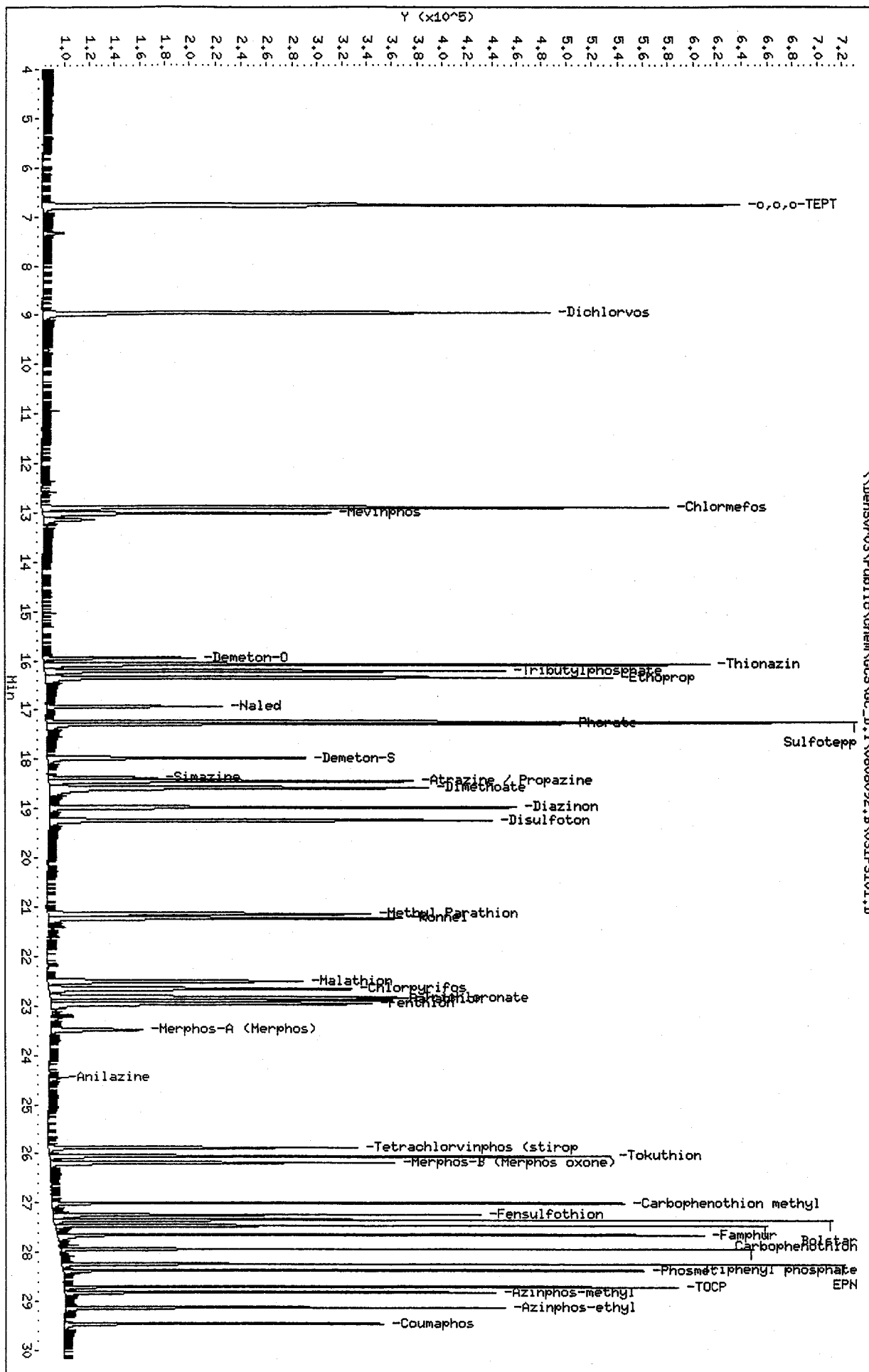
INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i	Calibration Date: 08-AUG-2009
Lab File ID: 031F3101.D	Calibration Time: 23:23
Lab Smp Id: 8141 CCV GSV861	Client Smp ID: 8141 CCV GSV861
Analysis Type: SV	Level:
Quant Type: ISTD	Sample Type:
Operator: MPK/TLW	
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	742473	371237	1484946	869227	17.07
38 TOCP	535756	267878	1071512	630081	17.61

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.21	0.13
38 TOCP	28.71	28.21	29.21	28.71	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.



CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 048F4801.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.3366	6.5	15.0
2 Dichlorvos	2.5000	2.7926	11.7	15.0
3 Mevinphos	2.5000	2.8105	12.4	15.0
4 Chlormefos	2.5000	2.1455	14.2	15.0
5 Thionazin	2.5000	2.4577	1.7	15.0
6 Demeton-O	0.8125	0.7711	5.1	15.0
7 Ethoprop	2.5000	2.3853	4.6	15.0
8 Naled	2.5000	1.8917	24.3	15.0
9 Sulfotepp	2.5000	2.3936	4.3	15.0
10 Phorate	2.5000	2.3231	7.1	15.0
11 Dimethoate	2.5000	2.4617	1.5	15.0
12 Demeton-S	1.7000	1.6981	0.1	15.0
13 Simazine	2.5000	2.3610	5.6	15.0
14 Atrazine	2.5000	2.3957	4.2	15.0
15 propazine	2.5000	2.4797	0.8	15.0
17 Disulfoton	2.5000	2.3369	6.5	15.0
16 Diazinon	2.5000	2.4742	1.0	15.0
18 Methyl Parathion	2.5000	2.4393	2.4	15.0
19 Ronnel	2.5000	2.3569	5.7	15.0
20 Malathion	2.5000	2.3811	4.8	15.0
21 Fenthion	2.5000	2.3570	5.7	15.0
22 Parathion	2.5000	2.3366	6.5	15.0
23 Chlorpyrifos	2.5000	2.2921	8.3	15.0
24 Trichloronate	2.5000	2.2284	10.9	15.0
25 Anilazine	2.5000	1.3600	45.6	15.0
148 Merphos-A (Merphos)	2.5000	1.0816	56.7	999.0
26 Tetrachlorvinphos (Stirophos)	2.5000	2.1967	12.1	15.0
28 Tokuthion	2.5000	2.2720	9.1	15.0
149 Merphos-B (Merphos Oxone)	2.5000	10.0910	303.6	999.0
29 Carbophenothion-methyl	2.5000	2.3476	6.1	15.0
29 Fensulfothion	2.5000	2.4620	1.5	15.0
30 Bolstar / Famphur	5.0000	4.6721	6.6	15.0
32 Carbophenothion	2.5000	2.3723	5.1	15.0
31 Triphenyl phosphate	2.5000	2.4591	1.6	15.0
34 Phosmet	2.5000	2.2985	8.1	15.0
32 EPN	2.5000	2.3327	6.7	15.0
33 Azinphos-methyl	2.5000	2.3458	6.2	15.0
38 Azinphos-ethyl	2.5000	2.3038	7.8	15.0
36 Coumaphos	2.5000	2.2047	11.8	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\048F4801.D
Report Date: 08/10/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 048F4801.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4692	1.2	15.0
27 Merphos	2.5000	2.3333	6.7	15.0

Average %D = 15.9

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\048F4801.D
 Lab Smp Id: 8141 CCV GSV861 Client Smp ID: 8141 CCV GSV861
 Inj Date : 09-AUG-2009 20:00
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 CCV GSV861
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Meth Date : 10-Aug-2009 13:51 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 48 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	4.280	4.267	(0.312)	1844066	2.50000	2.337 (M)
2 Dichlorvos	5.869	5.865	(0.428)	982521	2.50000	2.793
3 Mevinphos	9.406	9.407	(0.686)	472488	2.50000	2.810
\$ 4 Chlormefos	9.515	9.502	(0.694)	1382633	2.50000	2.145
5 Thionazin	12.631	12.625	(0.921)	1188408	2.50000	2.458
6 Demeton-O	12.887	12.876	(0.939)	305818	0.81250	0.7711
7 Ethoprop	13.208	13.205	(0.963)	1035510	2.50000	2.385
8 Naled	13.485	13.482	(0.983)	299016	2.50000	1.892
* 9 Tributylphosphate	13.718	13.714	(1.000)	836019	2.00000	
10 Sulfotepp	14.154	14.143	(1.032)	1566684	2.50000	2.394
11 Phorate	14.237	14.227	(1.038)	1001240	2.50000	2.323
12 Dimethoate	14.410	14.416	(1.050)	972237	2.50000	2.462
13 Demeton-S	14.684	14.682	(1.070)	605079	1.70000	1.698
14 Simazine	14.786	14.783	(1.078)	339710	2.50000	2.361
15 Atrazine	15.003	14.997	(1.094)	449977	2.50000	2.396
16 propazine	15.186	15.178	(1.107)	456914	2.50000	2.480
17 Disulfoton	15.874	15.866	(0.586)	913689	2.50000	2.337
18 Diazinon	15.941	15.934	(0.589)	1033260	2.50000	2.474
19 Methyl Parathion	16.843	16.829	(0.622)	742581	2.50000	2.439
20 Ronnel	17.467	17.456	(0.645)	751232	2.50000	2.357
21 Malathion	18.144	18.134	(0.670)	662142	2.50000	2.381
22 Fenthion	18.296	18.284	(0.676)	767309	2.50000	2.357
23 Parathion	18.403	18.392	(0.680)	765118	2.50000	2.337
24 Chlorpyrifos	18.461	18.451	(0.682)	891732	2.50000	2.292
25 Trichloronate	18.970	18.958	(0.701)	883058	2.50000	2.228
26 Anilazine	19.369	19.345	(0.715)	34354	2.50000	1.360
27 Merphos-A (Merphos)	19.812	19.804	(0.732)	266759	2.50000	1.082
28 Tetrachlorvinphos (Stirophos)	20.539	20.532	(0.758)	483880	2.50000	2.197
29 Tokuthion	21.292	21.278	(0.786)	856302	2.50000	2.272
30 Merphos-B (Merphos Oxone)	21.547	21.536	(0.796)	589354	2.50000	10.09 (A)
31 Carbophenothion-methyl	22.271	22.254	(0.822)	610084	2.50000	2.348
32 Fensulfothion	22.480	22.465	(0.830)	578608	2.50000	2.462
33 Bolstar / Famphur	23.641	23.627	(0.873)	1515983	5.00000	4.672

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.969	23.947	(0.885)	723410	2.50000	2.372
\$ 35 Triphenyl phosphate	25.286	25.270	(0.934)	596126	2.50000	2.459(A)
36 Phosmet	25.786	25.769	(0.952)	567789	2.50000	2.298
37 EPN	26.109	26.097	(0.964)	731808	2.50000	2.333
38 Azinphos-methyl	26.598	26.584	(0.982)	546280	2.50000	2.346
* 39 TOCP	27.081	27.076	(1.000)	555487	2.00000	
40 Azinphos-ethyl	27.179	27.172	(1.004)	665056	2.50000	2.304
41 Coumaphos	27.705	27.694	(1.023)	527387	2.50000	2.205
M 42 Total Demeton				910897	2.50000	2.469
M 43 Merphos				856113	2.50000	2.333

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_D.i
 Lab File ID: 048F4801.D
 Lab Smp Id: 8141 CCV GSV861
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: 8141 CCV GSV861
 Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	715675	357838	1431350	836019	16.82
39 TOCP	472782	236391	945564	555487	17.49

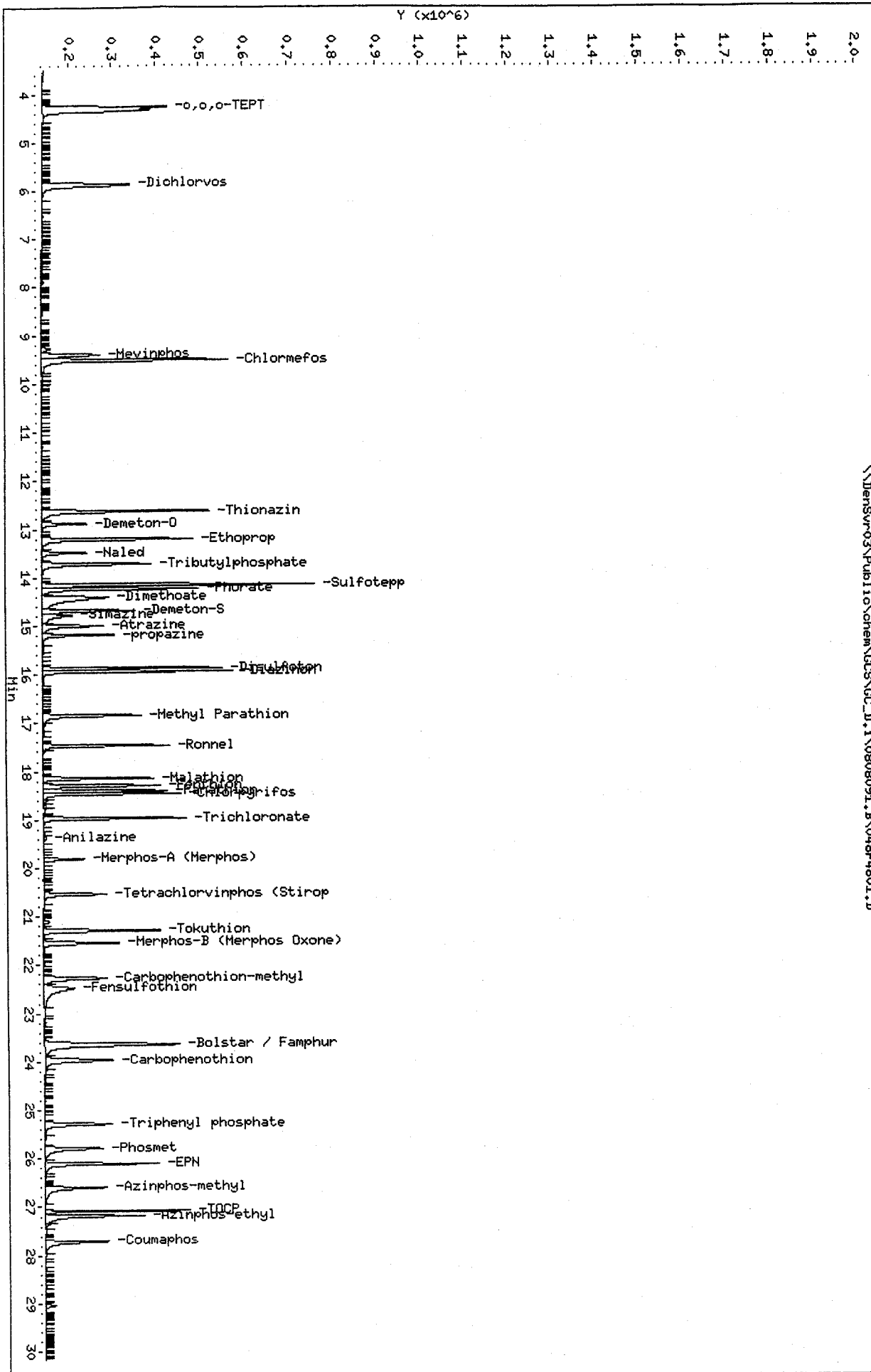
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.72	13.22	14.22	13.72	-0.02
39 TOCP	27.08	26.58	27.58	27.08	-0.00

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.

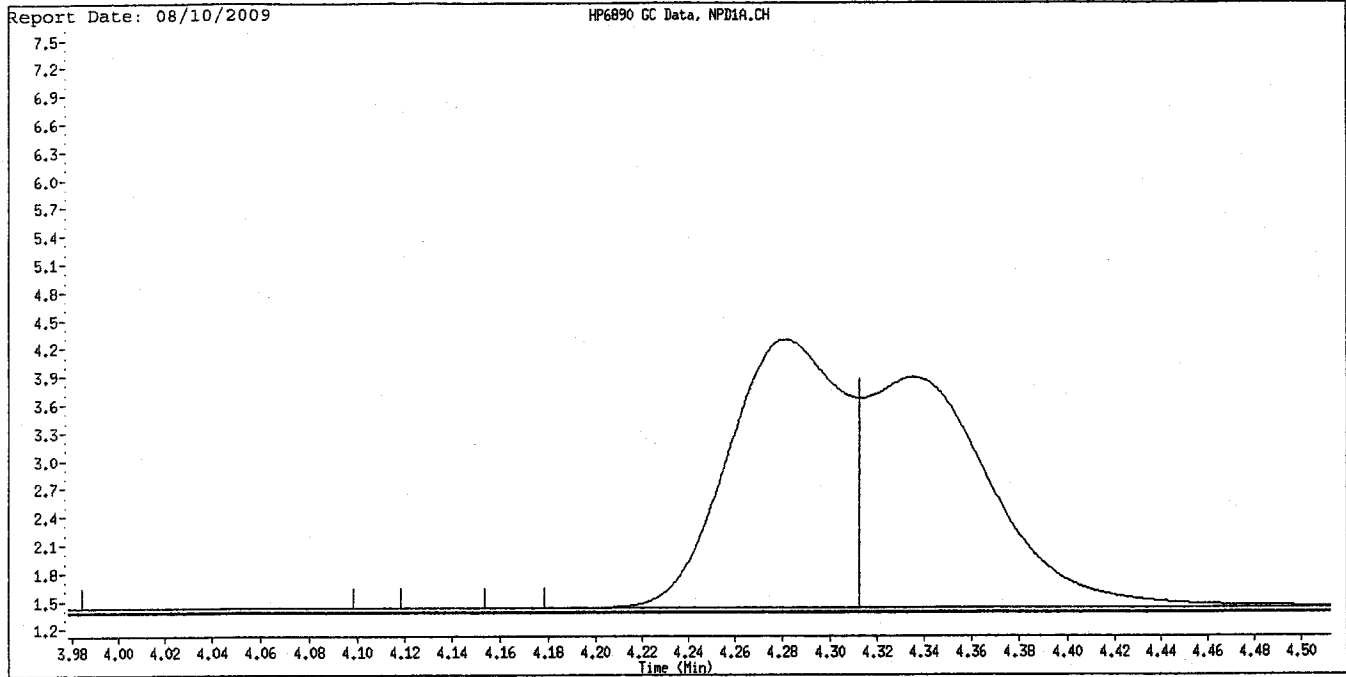
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 Date: 09-AUG-2009 20:00
 Client ID: 8141 CCV GSV861
 Sample Info: 8141 CCV GSV861
 Column phase: RTX-1HS

Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32

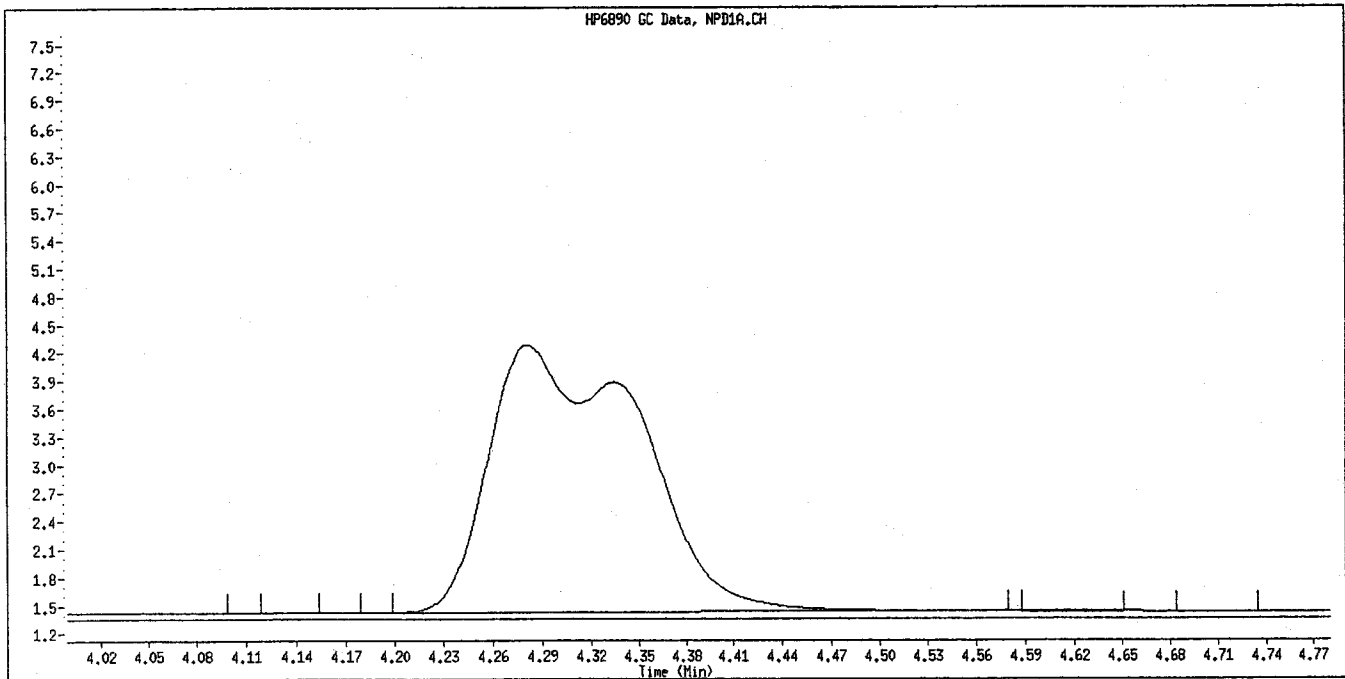
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Data File Name: 048F4801.D
Inj. Date and Time: 09-AUG-2009 20:00
Instrument ID: GC_D.i
Client ID: 8141 CCV GSV861
Compound Name: o,o,o-TEPT
CAS #:



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature and date:
8/16/09

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 048F4801.D
 Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
 Lab Sample ID: 8141 CCV GSV861
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.5000	2.3083	7.7	15.0
2 Dichlorvos	2.5000	3.1206	24.8	15.0
3 Chlormefos	2.5000	2.3838	4.6	15.0
4 Mevinphos	2.5000	2.8646	14.6	15.0
5 Demeton-O	0.8125	0.8017	1.3	15.0
6 Thionazin	2.5000	2.5263	1.1	15.0
7 Ethoprop	2.5000	2.5050	0.2	15.0
10 Naled	2.5000	2.1149	15.4	15.0
145 Sulfotepp	2.5000	2.3218	7.1	15.0
8 Phorate	2.5000	2.3044	7.8	15.0
15 Demeton-S	1.7000	1.6959	0.2	15.0
10 Simazine	2.5000	2.2676	9.3	15.0
13 Atrazine / Propazine	5.0000	4.7470	5.1	15.0
16 Dimethoate	2.5000	2.6299	5.2	15.0
11 Diazinon	2.5000	2.3437	6.3	15.0
14 Disulfoton	2.5000	2.2859	8.6	15.0
23 Methyl Parathion	2.5000	2.6211	4.8	15.0
17 Ronnel	2.5000	2.3959	4.2	15.0
24 Malathion	2.5000	2.3378	6.5	15.0
18 Chlorpyrifos	2.5000	2.3965	4.1	15.0
20 Trichloronate	2.5000	2.1863	12.5	15.0
26 Parathion	2.5000	2.3639	5.4	15.0
19 Fenthion	2.5000	2.4501	2.0	15.0
151 Merphos-A (Merphos)	2.5000	1.0763	56.9	999.0
21 Anilazine	2.5000	0.8307	66.8	15.0
27 Tetrachlorvinphos (stirophos)	2.5000	2.2724	9.1	15.0
25 Tokuthion	2.5000	2.2652	9.4	15.0
148 Merphos-B (Merphos oxone)	2.5000	11.2942	351.8	999.0
28 Carbophenothion methyl	2.5000	2.5115	0.5	15.0
30 Fensulfothion	2.5000	2.3747	5.0	15.0
28 Bolstar	2.5000	2.2463	10.1	15.0
30 Carbophenothion	2.5000	2.3237	7.1	15.0
33 Famphur	2.5000	2.5782	3.1	15.0
29 Triphenyl phosphate	2.5000	2.4132	3.5	15.0
32 EPN	2.5000	2.3664	5.3	15.0
34 Phosmet	2.5000	2.3119	7.5	15.0
34 Azinphos-methyl	2.5000	2.3745	5.0	15.0
35 Azinphos-ethyl	2.5000	2.4542	1.8	15.0
36 Coumaphos	2.5000	2.2102	11.6	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\048F4801.D
Report Date: 08/10/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 048F4801.D
Analysis Type: NONE

Injection Date: 09-AUG-2009 20:00
Lab Sample ID: 8141 CCV GSV861
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4977	0.1	15.0
22 Merphos	2.5000	2.4525	1.9	15.0

Average %D = 17.4

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\048F4801.D
 Lab Smp Id: 8141 CCV GSV861 Client Smp ID: 8141 CCV GSV861
 Inj Date : 09-AUG-2009 20:00
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 CCV GSV861
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Meth Date : 10-Aug-2009 13:57 williamst Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 48 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	6.779	6.758	(0.418)	2031389	2.50000	2.308
2 Dichlorvos	8.965	8.952	(0.553)	1224135	2.50000	3.120
3 Chlormefos	12.896	12.885	(0.796)	1388626	2.50000	2.384
4 Mevinphos	13.014	13.006	(0.803)	693817	2.50000	2.865
5 Demeton-O	15.947	15.939	(0.984)	288693	0.81250	0.8017
6 Thionazin	16.075	16.067	(0.992)	1347804	2.50000	2.526
7 Tributylphosphate	16.203	16.193	(1.000)	941095	2.00000	
8 Ethoprop	16.342	16.332	(1.009)	1179632	2.50000	2.505
9 Naled	16.929	16.921	(1.045)	361228	2.50000	2.115
10 Sulfotepp	17.242	17.234	(1.064)	1825339	2.50000	2.322
11 Phorate	17.279	17.268	(1.066)	916348	2.50000	2.304
12 Demeton-S	17.972	17.962	(1.109)	612831	1.70000	1.696
13 Simazine	18.378	18.368	(1.134)	235631	2.50000	2.268
14 Atrazine / Propazine	18.443	18.434	(1.138)	1025328	5.00000	4.747
15 Dimethoate	18.579	18.569	(1.147)	1213873	2.50000	2.630
16 Diazinon	18.977	18.967	(1.171)	1093243	2.50000	2.344
17 Disulfoton	19.240	19.231	(1.187)	1076999	2.50000	2.286
18 Methyl Parathion	21.143	21.132	(0.736)	863303	2.50000	2.621 (A)
19 Ronnel	21.232	21.222	(0.740)	943200	2.50000	2.396
20 Malathion	22.504	22.492	(0.784)	741572	2.50000	2.338
21 Chlorpyrifos	22.658	22.644	(0.789)	883285	2.50000	2.396
22 Trichloronate	22.834	22.819	(0.795)	998443	2.50000	2.186
23 Parathion	22.879	22.866	(0.797)	956382	2.50000	2.364
24 Fenthion	22.954	22.942	(0.800)	986732	2.50000	2.450
25 Merphos-A (Merphos)	23.485	23.472	(0.818)	283430	2.50000	1.076
26 Anilazine	24.470	24.451	(0.852)	22002	2.50000	0.8307
27 Tetrachlorvinphos (stirophos)	25.876	25.869	(0.901)	592117	2.50000	2.272
28 Tokuthion	26.050	26.043	(0.907)	976463	2.50000	2.265
29 Merphos-B (Merphos oxone)	26.182	26.176	(0.912)	698615	2.50000	11.29 (A)
30 Carbophenothion methyl	27.004	26.999	(0.941)	756864	2.50000	2.512
31 Pensulfothion	27.242	27.237	(0.949)	622777	2.50000	2.375
32 Bolstar	27.350	27.347	(0.953)	926919	2.50000	2.246
33 Carbophenothion	27.463	27.460	(0.957)	801430	2.50000	2.324

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.648	27.644	(0.963)	812540	2.50000	2.578
\$ 35 Triphenyl phosphate	27.937	27.932	(0.973)	711749	2.50000	2.413
36 EPN	28.242	28.240	(0.984)	800476	2.50000	2.366
37 Phosmet	28.369	28.366	(0.988)	640656	2.50000	2.312
* 38 TOCP	28.708	28.705	(1.000)	681586	2.00000	
39 Azinphos-methyl	28.820	28.816	(1.004)	550457	2.50000	2.374
40 Azinphos-ethyl	29.133	29.127	(1.015)	606771	2.50000	2.454
41 Coumaphos	29.460	29.453	(1.026)	491471	2.50000	2.210
M 42 Total Demeton				901524	2.50000	2.498
M 43 Merphos				982045	2.50000	2.452 (A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i
 Lab File ID: 048F4801.D
 Lab Smp Id: 8141 CCV GSV861
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: 8141 CCV GSV861
 Level:
 Sample Type:

COMPOUND =====	STANDARD	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
7 Tributylphosphate	869227	434614	1738454	941095	8.27
38 TOCP	630081	315041	1260162	681586	8.17

COMPOUND =====	STANDARD	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
7 Tributylphosphate	16.21	15.71	16.71	16.20	-0.03
38 TOCP	28.71	28.21	29.21	28.71	-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: \\Densur03\Public\chem\GCS\GC_D.1\0808092.B\048F4801.D

Date : 09-AUG-2009 20:00

Client ID: 8141 CCV GSV861

Sample Info: 8141 CCV GSV861

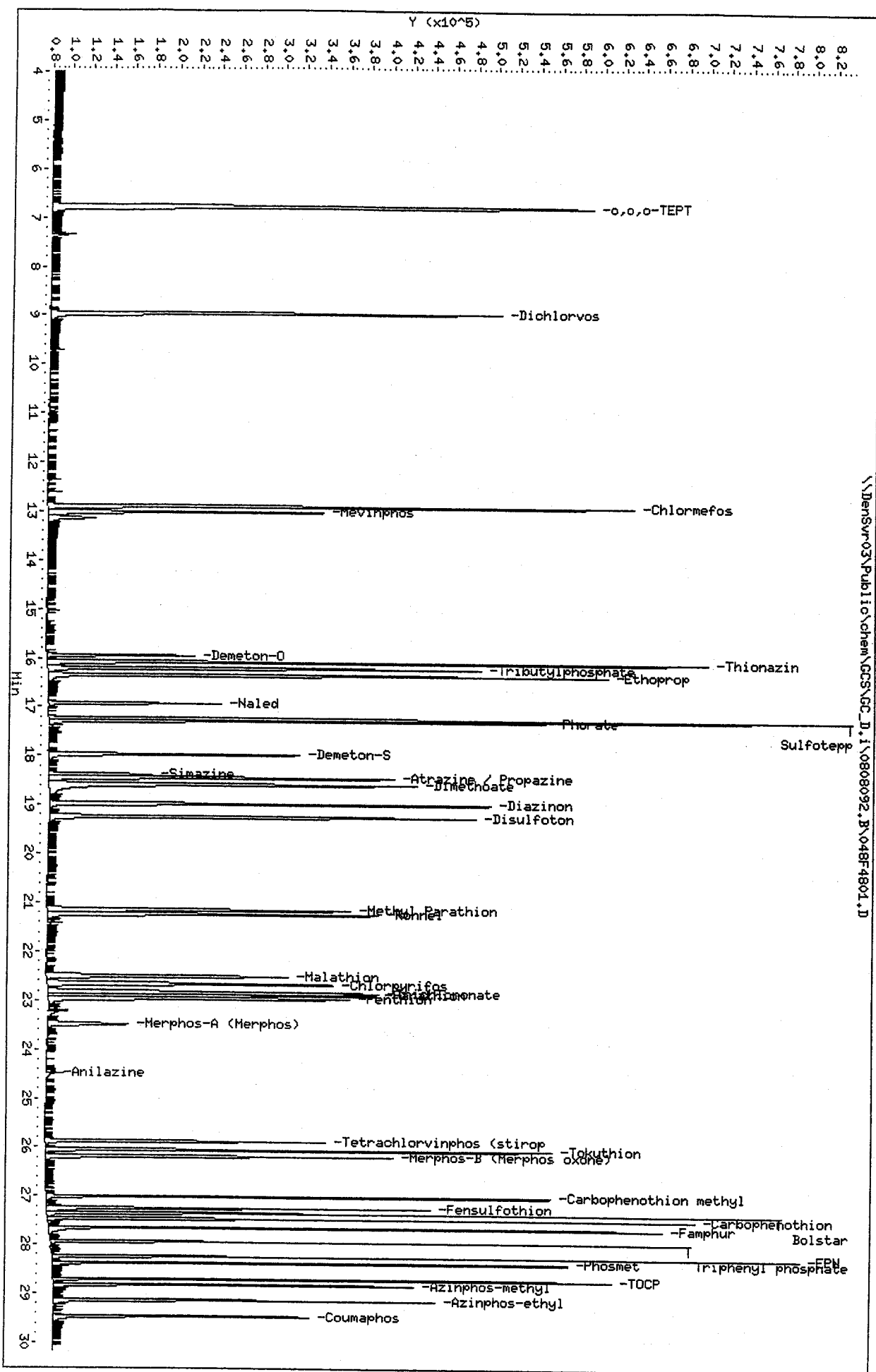
Column phase: RTX-0Pest

Instrument: GC_D.1

Operator: HPK/TLM

Column diameter: 0.32

\\Densur03\Public\chem\GCS\GC_D.1\0808092.B\048F4801.D



**GC SEMIVOLATILE
SAMPLE DATA**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\043F4301.D
 Lab Smp Id: LHK3A1AA Client Smp ID: BLANK
 Inj Date : 09-AUG-2009 16:58
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHK3A1AA,MB
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Meth Date : 10-Aug-2009 13:50 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 43 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT						
2 Dichlorvos						
3 Mevinphos	9.403	9.407	(0.684)	305	0.40322	0.8064 <i>WC</i>
4 Chlormefos	9.511	9.502	(0.692)	471071	0.69108	1.382
5 Thionazin	12.638	12.625	(0.920)	71	0.06772	0.1354
6 Demeton-O						
7 Ethoprop	13.148	13.205	(0.957)	286	0.08878	0.1776 <i>WC</i>
8 Naled	13.514	13.482	(0.984)	182	0.17425	0.3485 <i>NAP</i>
* 9 Tributylphosphate	13.738	13.714	(1.000)	884286	2.00000	
10 Sulfotepp						
11 Phorate						
12 Dimethoate	14.407	14.416	(1.049)	1387	0.35618	0.7124 <i>WC</i>
13 Demeton-S						
14 Simazine						
15 Atrazine	15.035	14.997	(1.094)	456	0.19435	0.3887
16 propazine						
17 Disulfoton	15.854	15.866	(0.585)	272	0.08306	0.1661
18 Diazinon						
19 Methyl Parathion						
20 Ronnel						
21 Malathion						
22 Fenthion						

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion						
24 Chlorpyrifos						
25 Trichloronate						
26 Anilazine	19.359	19.345	(0.715)	194	0.40764	0.8153
27 Merphos-A (Merphos)	19.796	19.804	(0.731)	137	0.10438	0.2088
28 Tetrachlorvinphos (Stirophos)	20.537	20.532	(0.758)	208	0.09143	0.1828 <i>Nr</i>
29 Tokuthion						
30 Merphos-B (Merphos Oxone)	21.543	21.536	(0.795)	231	0.12736	0.2547
31 Carbophenothion-methyl	22.258	22.254	(0.822)	121	0.10015	0.2003
32 Fensulfothion	22.470	22.465	(0.829)	173	0.30365	0.6073 <i>Nr</i>
33 Bolstar / Famphur	23.628	23.627	(0.872)	153	0.11473	0.2294 <i>Nr</i>
34 Carbophenothion						
\$ 35 Triphenyl phosphate	25.320	25.270	(0.935)	211239	0.78651	1.573
36 Phosmet	25.783	25.769	(0.952)	1021	0.11180	0.2236
37 EPN						
38 Azinphos-methyl						
* 39 TOCP	27.089	27.076	(1.000)	615429	2.00000	
40 Azinphos-ethyl						
41 Coumaphos						
M 42 Total Demeton						
M 43 Merphos				368	9e-004	0.001810

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC D.i
 Lab File ID: 043F4301.D
 Lab Smp Id: LHK3A1AA
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: BLANK
 Level: LOW
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	715675	357838	1431350	884286	23.56
39 TOCP	472782	236391	945564	615429	30.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.72	13.22	14.22	13.74	0.13
39 TOCP	27.08	26.58	27.58	27.09	0.03

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

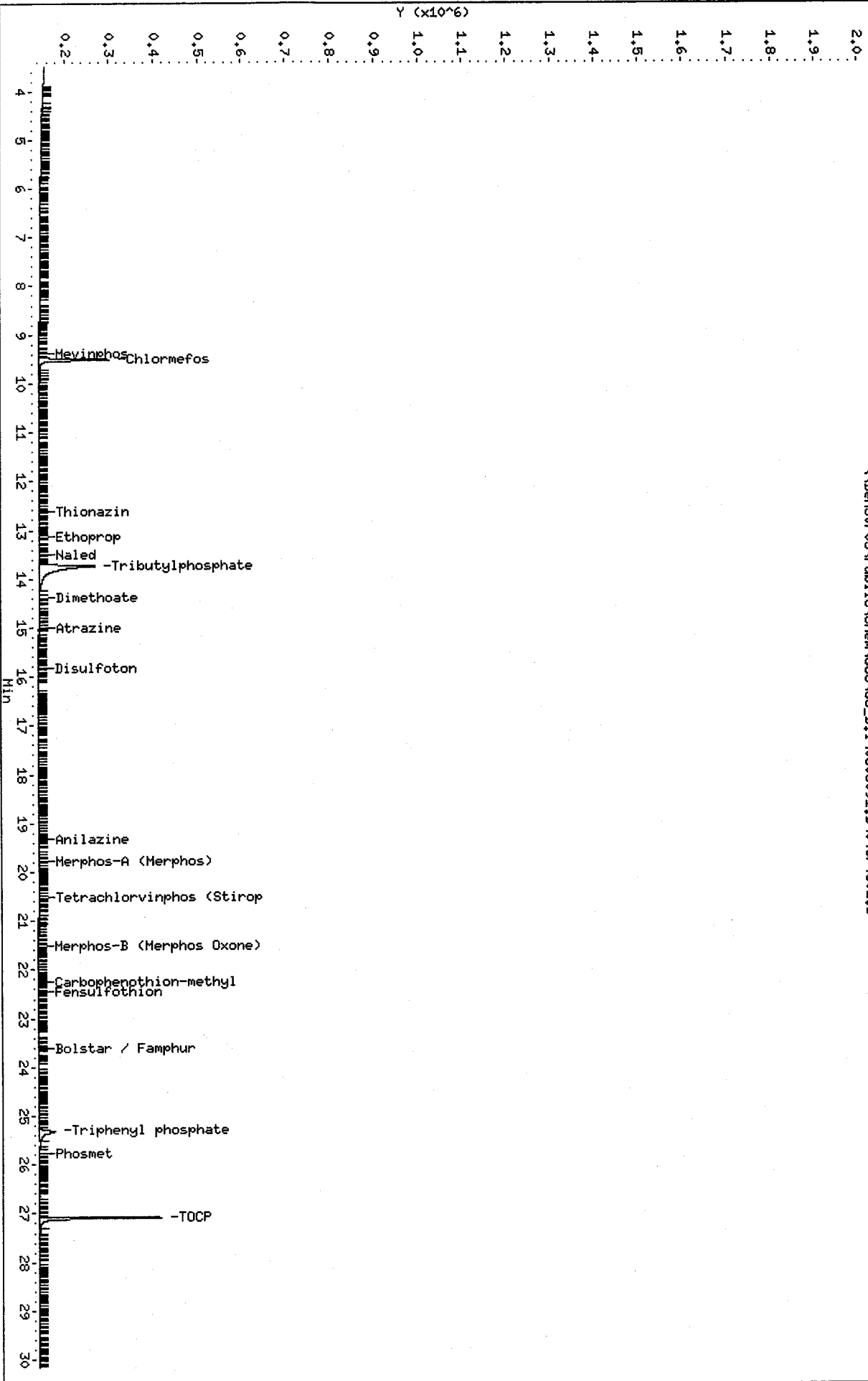
Client Name: Client SDG: D9H050000
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: LHK3A1AA Client Smp ID: BLANK
 Level: LOW Operator: MPK/TLW
 Data Type: GC DATA SampleType: BLANK
 SpikeList File: fullDFCwater.spk Quant Type: ISTD
 Sublist File: 8141A.sub
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	2.000	1.382	69.11	48-114
\$ 35 Triphenyl phosphat	2.000	1.573	78.65	50-150

Data File: \\DensSvr03\Public\chem\GCSS\GC_D.1\0808091.B\043F4301.D
Date: 09-AUG-2009 16:58
Client ID: BLANK
Sample Info: LHK361AA,MB
Column phase: RTX-1MS

Instrument: GC_D.1
Operator: MPK/TLM
Column diameter: 0.32

\\DensSvr03\Public\chem\GCSS\GC_D.1\0808091.B\043F4301.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\043F4301.D
 Lab Smp Id: LHK3A1AA Client Smp ID: BLANK
 Inj Date : 09-AUG-2009 16:58
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHK3A1AA,MB
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Meth Date : 10-Aug-2009 13:57 williamst Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 43 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT						
2 Dichlorvos						
\$ 3 Chlormefos	12.895	12.885	(0.795)	536754	0.81679	1.634
4 Mevinphos	12.997	13.006	(0.802)	1667	0.05116	0.1023
5 Demeton-O						
6 Thionazin						
* 7 Tributylphosphate	16.213	16.193	(1.000)	1005567	2.00000	
8 Ethoprop						
9 Naled	16.944	16.921	(1.045)	62	0.17018	0.3404
10 Sulfotepp	17.260	17.234	(1.065)	83	1e-004	0.0001976 (a)
11 Phorate						
12 Demeton-S						
13 Simazine	18.384	18.368	(1.134)	73	0.28761	0.5752
14 Atrazine / Propazine						
15 Dimethoate						
16 Diazinon						
17 Disulfoton						
18 Methyl Parathion	21.163	21.132	(0.737)	82	0.08676	0.1735 (a)
19 Ronnel						
20 Malathion	22.485	22.492	(0.783)	67	0.03648	0.07296 (a)
21 Chlorpyrifos						
22 Trichloronate	22.852	22.819	(0.796)	93	0.06488	0.1298

LTMPOL

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	22.860	22.866	(0.796)	62	0.13136	0.2627(a)
24 Fenthion	Compound Not Detected.					
25 Merphos-A (Merphos)	23.493	23.472	(0.818)	76	0.12753	0.2551
26 Anilazine	Compound Not Detected.					
27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
28 Tokuthion	Compound Not Detected.					
29 Merphos-B (Merphos oxone)	26.138	26.176	(0.910)	69	0.12963	0.2592(a)
30 Carbophenothion methyl	Compound Not Detected.					
31 Fensulfothion	Compound Not Detected.					
32 Bolstar	Compound Not Detected.					
33 Carbophenothion	Compound Not Detected.					
34 Famphur	Compound Not Detected.					
\$ 35 Triphenyl phosphate	27.942	27.932	(0.973)	291932	0.91141	1.823
36 EPN	Compound Not Detected.					
37 Phosmet	28.366	28.366	(0.988)	79	0.05645	0.1129
* 38 TOCP	28.713	28.705	(1.000)	740213	2.00000	
39 Azinphos-methyl	Compound Not Detected.					
40 Azinphos-ethyl	Compound Not Detected.					
41 Coumaphos	Compound Not Detected.					
M 42 Total Demeton	Compound Not Detected.					
M 43 Merphos	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_D.i
 Lab File ID: 043F4301.D
 Lab Smp Id: LHK3A1AA
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: BLANK
 Level: LOW
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	869227	434614	1738454	1005567	15.69
38 TOCP	630081	315041	1260162	740213	17.48

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.21	15.71	16.71	16.21	0.03
38 TOCP	28.71	28.21	29.21	28.71	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.

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9H050000
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LHK3A1AA 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_D.i\0808092.B\8141A-2.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	2.000	1.634	81.68	48-114
\$ 35 Triphenyl phosphat	2.000	1.823	91.14	50-150

Date: 09-AUG-2009 16:58

Client ID: BLANK

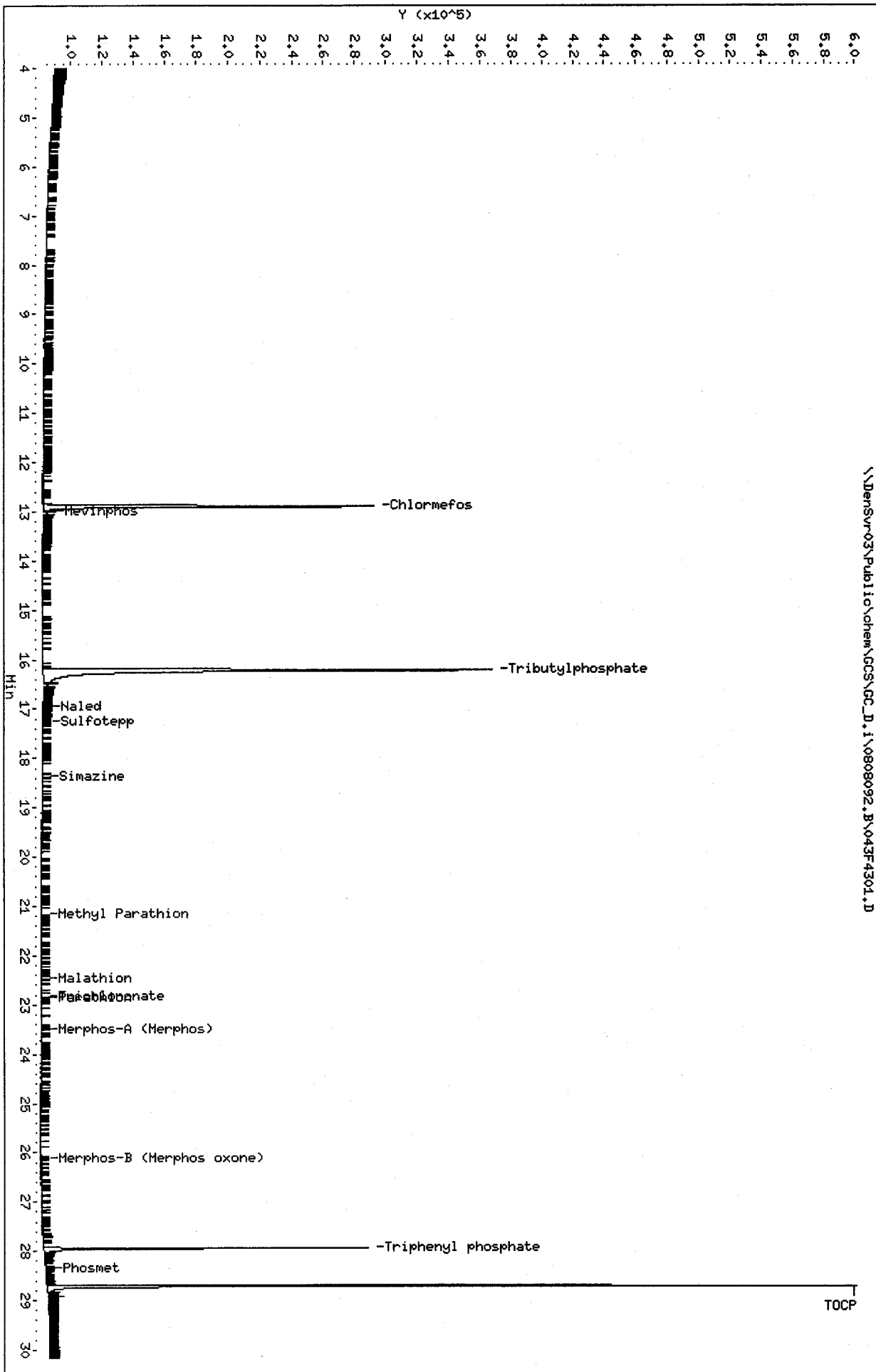
Sample Info: LHK3A1A4,HB

Instrument: GC_D.1

Column phase: RTX-OPpest

Operator: MPK/TLM
Column diameter: 0.32

\\Densvr03\Public\chem\GCSS\GC_D.1\0808092.B\043F4301.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\044F4401.D
 Lab Smp Id: LHK3A1AC Client Smp ID: LCS
 Inj Date : 09-AUG-2009 17:35
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHK3A1AC,LCS
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Meth Date : 10-Aug-2009 13:50 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 44 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	4.292	4.267 (0.313)		1772769	1.90236	3.805
2 Dichlorvos	5.876	5.865 (0.428)		845923	2.07884	4.158
3 Mevinphos	9.416	9.407 (0.686)		275053	1.61413	3.228
§ 4 Chlormefos	9.516	9.502 (0.693)		587269	0.78791	1.576
5 Thionazin	12.633	12.625 (0.921)		946539	1.71348	3.427
6 Demeton-O	12.888	12.876 (0.939)		613458	1.35167	2.703
7 Ethoprop	13.212	13.205 (0.963)		843756	1.70654	3.413
8 Naled	13.489	13.482 (0.983)		239637	1.37151	2.743
* 9 Tributylphosphate	13.724	13.714 (1.000)		966932	2.00000	
10 Sulfotepp	14.155	14.143 (1.031)		1063521	1.40487	2.810
11 Phorate	14.238	14.227 (1.037)		627606	1.25906	2.518
12 Dimethoate	14.427	14.416 (1.051)		657291	1.58574	3.171
13 Demeton-S	14.693	14.682 (1.071)		61125	0.16303	0.3261 (R)
14 Simazine	14.794	14.783 (1.078)		303275	1.78552	3.571
15 Atrazine	15.008	14.997 (1.094)		367747	1.74926	3.498
16 propazine	15.190	15.178 (1.107)		373984	1.75487	3.510
17 Disulfoton	15.876	15.866 (0.586)		671807	1.63782	3.276
18 Diazinon	15.943	15.934 (0.589)		806913	1.78445	3.569
19 Methyl Parathion	16.847	16.829 (0.622)		571146	1.78063	3.561
20 Ronnel	17.468	17.456 (0.645)		587313	1.72897	3.458
21 Malathion	18.146	18.134 (0.670)		440745	1.48714	2.974
22 Fenthion	18.297	18.284 (0.676)		576641	1.67964	3.359

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	18.406	18.392	(0.680)	543443	1.61773	3.235
24 Chlorpyrifos	18.466	18.451	(0.682)	737111	1.72876	3.458
25 Trichloronate	18.973	18.958	(0.701)	636806	1.50788	3.016
26 Anilazine	19.373	19.345	(0.715)	29181	1.16569	2.331
27 Merphos-A (Merphos)	19.805	19.804	(0.731)	760	0.10654	0.2131
28 Tetrachlorvinphos (Stirophos)	20.547	20.532	(0.759)	360805	1.56417	3.128
29 Tokuthion	21.296	21.278	(0.786)	651344	1.62161	3.243
30 Merphos-B (Merphos Oxone)	21.550	21.536	(0.796)	612230	9.62509	19.25 (A)
31 Carbophenothion-methyl	22.282	22.254	(0.823)	426101	1.57285	3.146
32 Fensulfothion	22.491	22.465	(0.830)	412985	1.74893	3.498
33 Bolstar / Famphur	23.650	23.627	(0.873)	1161797	3.39174	6.783
34 Carbophenothion	23.971	23.947	(0.885)	536606	1.65114	3.302
S 35 Triphenyl phosphate	25.291	25.270	(0.934)	223761	0.86610	1.732
36 Phosmet	25.791	25.769	(0.952)	441698	1.70702	3.414
37 EPN	26.113	26.097	(0.964)	535566	1.60186	3.204
38 Azinphos-methyl	26.603	26.584	(0.982)	389129	1.61809	3.236
* 39 TOCP	27.083	27.076	(1.000)	592007	2.00000	
40 Azinphos-ethyl	27.184	27.172	(1.004)	476204	1.54787	3.096
41 Coumaphos	27.706	27.694	(1.023)	395600	1.57333	3.147
M 42 Total Demeton				674583	1.51470	3.029
M 43 Merphos				612990	1.56765	3.135

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_D.i
 Lab File ID: 044F4401.D
 Lab Smp Id: LHK3A1AC
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: LCS
 Level: LOW
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	715675	357838	1431350	966932	35.11
39 TOCP	472782	236391	945564	592007	25.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.72	13.22	14.22	13.72	0.03
39 TOCP	27.08	26.58	27.58	27.08	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: D9H050000
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: LHK3A1AC 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_D.i\0808091.B\8141A-1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 o,o,o-TEPT	4.000	3.805	95.12	36-119
2 Dichlorvos	4.000	4.158	103.94	50-120
3 Mevinphos	4.000	3.228	80.71	35-108
\$ 4 Chlormefos	2.000	1.576	78.79	48-114
5 Thionazin	4.000	3.427	85.67	65-116
6 Demeton-O	2.792	2.703	96.82	36-119
7 Ethoprop	4.000	3.413	85.33	65-108
8 Naled	4.000	2.743	68.58	36-119
10 Sulfotepp	4.000	2.810	70.24	69-103
11 Phorate	4.000	2.518	62.95	62-104
12 Dimethoate	4.000	3.171	79.29	28-115
13 Demeton-S	1.208	0.3261	26.99*	36-119
14 Simazine	4.000	3.571	89.28	47-109
15 Atrazine	4.000	3.498	87.46	36-119
16 propazine	4.000	3.510	87.74	36-119
17 Disulfoton	4.000	3.276	81.89	36-119
18 Diazinon	4.000	3.569	89.22	36-119
19 Methyl Parathion	4.000	3.561	89.03	68-119
20 Ronnel	4.000	3.458	86.45	62-115
21 Malathion	4.000	2.974	74.36	67-115
22 Fenthion	4.000	3.359	83.98	36-119
23 Parathion	4.000	3.235	80.89	36-119
25 Trichloronate	4.000	3.016	75.39	36-119
24 Chlorpyrifos	4.000	3.458	86.44	36-119
26 Anilazine	4.000	2.331	58.28	47-115
28 Tetrachlorvinphos	4.000	3.128	78.21	36-119
29 Tokuthion	4.000	3.243	81.08	36-119
32 Fensulfothion	4.000	3.498	87.45	61-115
33 Bolstar / Famphur	8.000	6.783	84.79	36-119
34 Carbophenothion	4.000	3.302	82.56	50-150
\$ 35 Triphenyl phosphat	2.000	1.732	86.61	50-150
36 Phosmet	4.000	3.414	85.35	50-150
37 EPN	4.000	3.204	80.09	36-119
38 Azinphos-methyl	4.000	3.236	80.90	55-115
41 Coumaphos	4.000	3.147	78.67	62-115
M 42 Total Demeton	4.000	3.029	75.74	47-115
M 43 Merphos	4.000	3.135	78.38	36-119

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9H050000
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LHK3A1AC 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_D.i\0808091.B\8141A-1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	2.000	1.576	78.79	48-114
\$ 35 Triphenyl phosphat	2.000	1.732	86.61	50-150

Date : 09-06-2009 17:36

Client ID: LCS

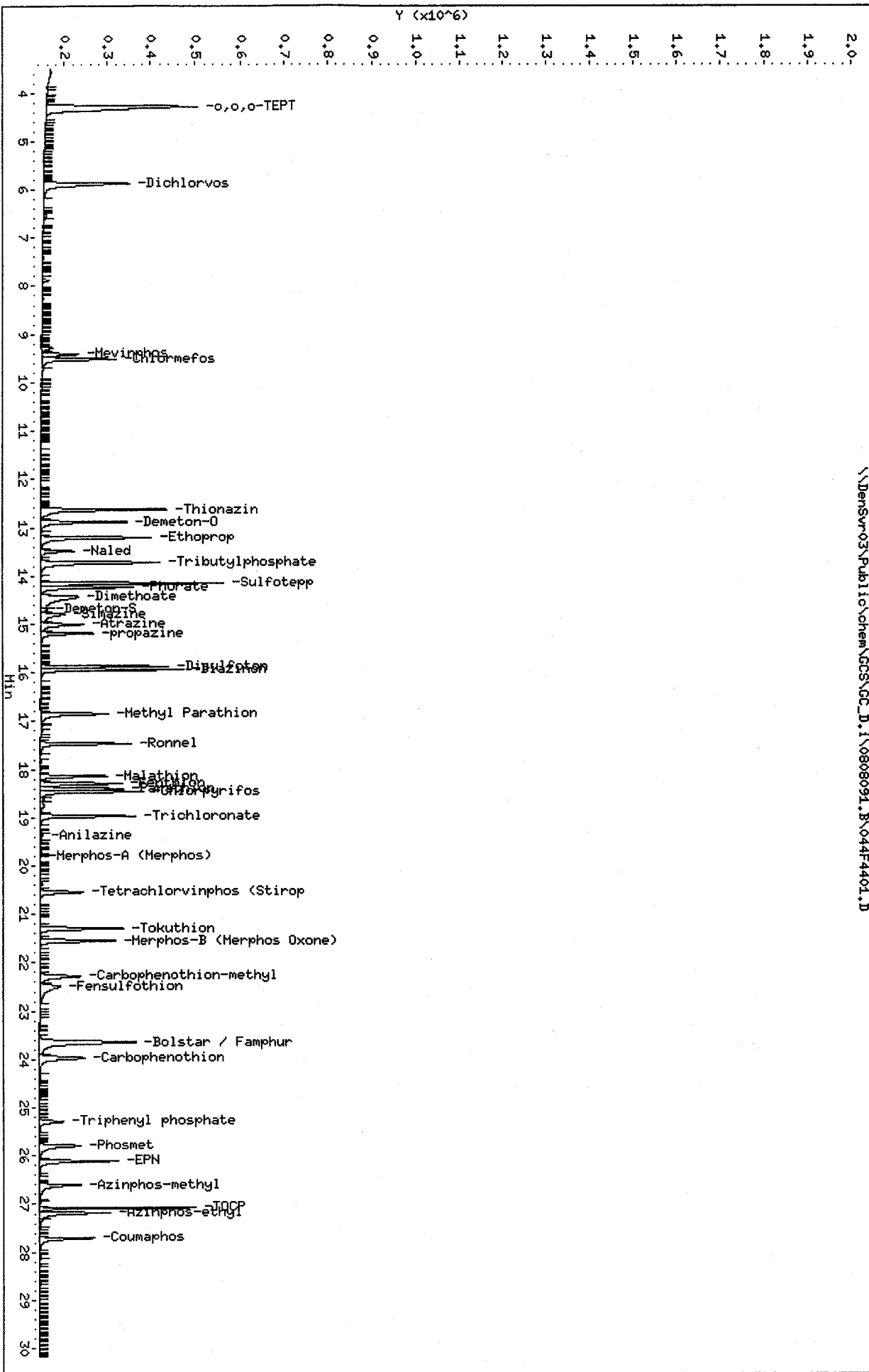
Instrument: GC_D.1

Sample Info: LHKRAC,LCS

Column phase: RTX-1MS

Operator: MPK/TLM
Column diameter: 0.32

\\Densur-03\Public\chem\GCS\GC_D.1\0808091.B\044F4401.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\044F4401.D
 Lab Smp Id: LHK3A1AC Client Smp ID: LCS
 Inj Date : 09-AUG-2009 17:35
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHK3A1AC,LCS
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Meth Date : 10-Aug-2009 13:57 williamst Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 44 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	6.779	6.758	(0.418)	1734354	1.69259	3.385
2 Dichlorvos	8.968	8.952	(0.553)	997993	2.18495	4.370
\$ 3 Chlormefos	12.897	12.885	(0.796)	527632	0.72982	1.460
4 Mevinphos	13.018	13.006	(0.803)	414257	1.49076	2.982
5 Demeton-O	15.948	15.939	(0.984)	590559	1.40854	2.817
6 Thionazin	16.076	16.067	(0.992)	1094489	1.76186	3.524
* 7 Tributylphosphate	16.205	16.193	(1.000)	1095781	2.00000	
8 Ethoprop	16.345	16.332	(1.009)	947566	1.67465	3.349
9 Naled	16.931	16.921	(1.045)	283738	1.49285	2.986
10 Sulfotepp	17.242	17.234	(1.064)	1256863	1.37305	2.746
11 Phorate	17.280	17.268	(1.066)	553973	1.19646	2.393
12 Demeton-S	17.978	17.962	(1.109)	28314	0.06729	0.1346 (R)
13 Simazine	18.381	18.368	(1.134)	250145	2.09277	4.186
14 Atrazine / Propazine	18.445	18.434	(1.138)	882665	3.50966	7.019
15 Dimethoate	18.585	18.569	(1.147)	856470	1.61744	3.235
16 Diazinon	18.978	18.967	(1.171)	838245	1.54336	3.087
17 Disulfoton	19.242	19.231	(1.187)	807532	1.47204	2.944
18 Methyl Parathion	21.147	21.132	(0.737)	667257	1.91930	3.839
19 Ronnel	21.234	21.222	(0.740)	753290	1.79019	3.580
20 Malathion	22.506	22.492	(0.784)	483544	1.44029	2.880
21 Chlorpyrifos	22.660	22.644	(0.789)	679971	1.73725	3.474
22 Trichloronate	22.833	22.819	(0.795)	696080	1.44851	2.897

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	22.883	22.866	(0.797)	701737	1.57611	3.152
24 Fenthion	22.957	22.942	(0.800)	733915	1.69738	3.395
25 Merphos-A (Merphos)	23.483	23.472	(0.818)	98	0.12760	0.2552
26 Anilazine	Compound Not Detected.					
27 Tetrachlorvinphos (stirophos)	25.880	25.869	(0.901)	425616	1.55376	3.108
28 Tokuthion	26.053	26.043	(0.907)	737526	1.60067	3.201
29 Merphos-B (Merphos oxone)	26.185	26.176	(0.912)	670718	9.23531	18.47 (A)
30 Carbophenothion methyl	27.006	26.999	(0.941)	535684	1.66306	3.326
31 Fensulfothion	27.246	27.237	(0.949)	443940	1.61310	3.226
32 Bolstar	27.353	27.347	(0.953)	724952	1.64370	3.287
33 Carbophenothion	27.466	27.460	(0.957)	569810	1.54568	3.091
34 Fampthur	27.651	27.644	(0.963)	604291	1.79389	3.588
\$ 35 Triphenyl phosphate	27.939	27.932	(0.973)	278406	0.88314	1.766
36 EPN	28.246	28.240	(0.984)	591922	1.63710	3.274
37 Phosmet	28.373	28.366	(0.988)	497230	1.69412	3.388
* 38 TOCP	28.711	28.705	(1.000)	728517	2.00000	
39 Azinphos-methyl	28.824	28.816	(1.004)	399626	1.63028	3.260
40 Azinphos-ethyl	29.136	29.127	(1.015)	434413	1.64389	3.288
41 Coumaphos	29.463	29.453	(1.026)	369051	1.56618	3.132
M 42 Total Demeton				618873	1.47583	2.952
M 43 Merphos				670816	1.56592	3.132

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 D.i	Calibration Date: 09-AUG-2009
Lab File ID: 044F4401.D	Calibration Time: 09:41
Lab Smp Id: LHK3A1AC	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_D.i\0808092.B\8141A-2.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	869227	434614	1738454	1095781	26.06
38 TOCP	630081	315041	1260162	728517	15.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.21	15.71	16.71	16.21	-0.01
38 TOCP	28.71	28.21	29.21	28.71	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.

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9H050000
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: LHK3A1AC 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_D.i\0808092.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	3.385	84.63	36-119
2 Dichlorvos	4.000	4.370	109.25	50-120
\$ 3 Chlormefos	2.000	1.460	72.98	58-114
4 Mevinphos	4.000	2.982	74.54	35-108
5 Demeton-O	2.800	2.817	100.61	36-119
6 Thionazin	4.000	3.524	88.09	65-116
8 Ethoprop	4.000	3.349	83.73	36-119
11 Phorate	4.000	2.393	59.82	36-119
13 Simazine	4.000	4.186	104.64	36-119
16 Diazinon	4.000	3.087	77.17	36-119
17 Disulfoton	4.000	2.944	73.60	61-103
12 Demeton-S	1.200	0.1346	11.22*	36-119
15 Dimethoate	4.000	3.235	80.87	28-82
19 Ronnel	4.000	3.580	89.51	62-99
21 Chlorpyrifos	4.000	3.474	86.86	66-101
24 Fenthion	4.000	3.395	84.87	36-119
22 Trichloronate	4.000	2.897	72.43	36-119
26 Anilazine	4.000	0.0000	*	36-119
M 43 Merphos	4.000	3.132	78.30	36-119
18 Methyl Parathion	4.000	3.839	95.97	36-119
20 Malathion	4.000	2.880	72.01	36-119
28 Tokuthion	4.000	3.201	80.03	36-119
23 Parathion	4.000	3.152	78.81	36-119
27 Tetrachlorvinphos	4.000	3.108	77.69	36-119
32 Bolstar	4.000	3.287	82.19	36-119
\$ 35 Triphenyl phosphat	2.000	1.766	88.31	36-119
31 Fensulfothion	4.000	3.226	80.66	20-105
36 EPN	4.000	3.274	81.86	36-119
34 Famphur	4.000	3.588	89.69	61-108
39 Azinphos-methyl	4.000	3.260	81.51	55-103
41 Coumaphos	4.000	3.132	78.31	36-119
M 42 Total Demeton	4.000	2.952	73.79	47-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	2.000	1.460	72.98	48-114

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 35 Triphenyl phosphat	2.000	1.766	88.31	50-150

Data File: \\Densv03\Public\chem\GCS\GC_D.1\0808092.B\044F4401.D

Date: 09-AUG-2009 17:35

Client ID: LCS

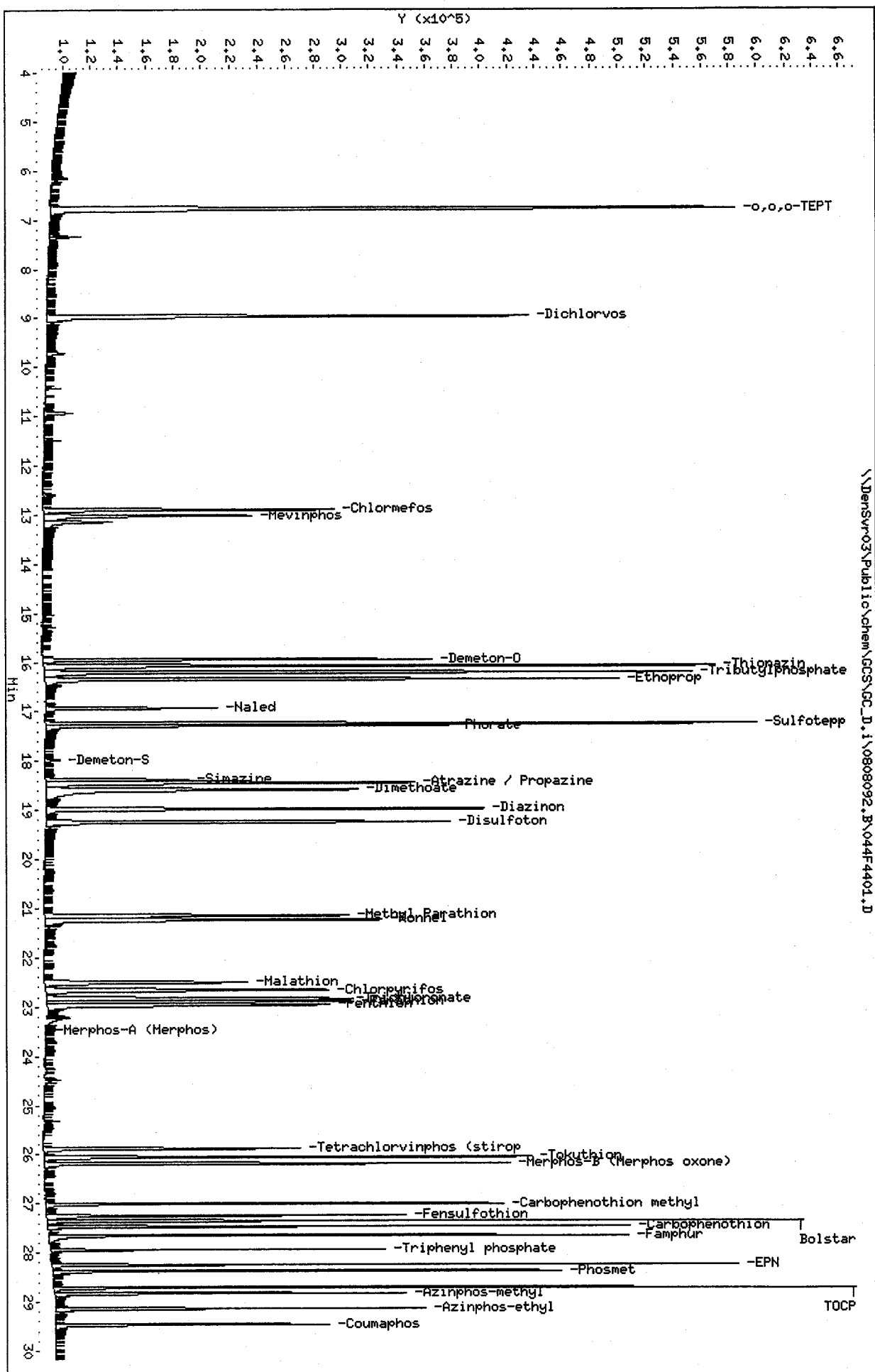
Sample Info: LHK3A1AC,LCS

Column phase: RTX-0Ppest

Instrument: GC_D.1

Operator: MPK/TLN
Column diameter: 0.32

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TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\045F4501.D
 Lab Smp Id: LHK3A1AD Client Smp ID: LCSD
 Inj Date : 09-AUG-2009 18:11
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHK3A1AD, LCSD
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Meth Date : 10-Aug-2009 13:50 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 45 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	4.287	4.267	(0.312)	1557617	1.72452	3.449 (M)
2 Dichlorvos	5.876	5.865	(0.428)	780122	1.99560	3.991
3 Mevinphos	9.417	9.407	(0.686)	249117	1.54476	3.090
§ 4 Chlormefos	9.516	9.502	(0.693)	533522	0.74510	1.490
5 Thionazin	12.635	12.625	(0.921)	862654	1.62902	3.258
6 Demeton-O	12.888	12.876	(0.939)	545574	1.24985	2.500
7 Ethoprop	13.213	13.205	(0.963)	770311	1.62614	3.252
8 Naled	13.490	13.482	(0.983)	220080	1.31947	2.639
* 9 Tributylphosphate	13.724	13.714	(1.000)	928911	2.00000	
10 Sulfotepp	14.155	14.143	(1.031)	955296	1.31356	2.627 (R)
11 Phorate	14.240	14.227	(1.038)	557529	1.16425	2.328 (R)
12 Dimethoate	14.430	14.416	(1.051)	615988	1.55557	3.111
13 Demeton-S	14.696	14.682	(1.071)	57499	0.15997	0.3199 (R)
14 Simazine	14.796	14.783	(1.078)	278482	1.70386	3.408
15 Atrazine	15.008	14.997	(1.094)	344380	1.71000	3.420
16 propazine	15.190	15.178	(1.107)	355462	1.73623	3.472
17 Disulfoton	15.876	15.866	(0.586)	591704	1.52949	3.059
18 Diazinon	15.943	15.934	(0.589)	742717	1.73198	3.464
19 Methyl Parathion	16.850	16.829	(0.622)	521146	1.71884	3.438
20 Ronnel	17.471	17.456	(0.645)	526551	1.63735	3.275
21 Malathion	18.145	18.134	(0.670)	405933	1.44679	2.894
22 Fenthion	18.300	18.284	(0.676)	523050	1.61180	3.224

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	18.409	18.392	(0.680)	483078	1.53005	3.060
24 Chlorpyrifos	18.466	18.451	(0.682)	691523	1.71116	3.422
25 Trichloronate	18.971	18.958	(0.700)	569937	1.42551	2.851
26 Anilazine	19.365	19.345	(0.715)	27292	1.15647	2.313
27 Merphos-A (Merphos)	19.790	19.804	(0.731)	1063	0.10779	0.2156
28 Tetrachlorvinphos (Stirophos)	20.544	20.532	(0.759)	335722	1.53892	3.078
29 Tokuthion	21.295	21.278	(0.786)	590742	1.55353	3.107
30 Merphos-B (Merphos Oxone)	21.553	21.536	(0.796)	568383	9.28444	18.57 (A)
31 Carbophenothion-methyl	22.282	22.254	(0.823)	390989	1.52756	3.055
32 Pensusfothion	22.499	22.465	(0.831)	415135	1.83827	3.676
33 Bolstar / Famphur	23.650	23.627	(0.873)	1072838	3.31116	6.622
34 Carbophenothion	23.973	23.947	(0.885)	489566	1.59120	3.182
\$ 35 Triphenyl phosphate	25.294	25.270	(0.934)	203527	0.83212	1.664
36 Phosmet	25.799	25.769	(0.953)	406357	1.66190	3.324
37 EPN	26.115	26.097	(0.964)	497265	1.57102	3.142
38 Azinphos-methyl	26.607	26.584	(0.982)	353058	1.55704	3.114
* 39 TOCP	27.084	27.076	(1.000)	560457	2.00000	
40 Azinphos-ethyl	27.186	27.172	(1.004)	439315	1.50835	3.017
41 Coumaphos	27.710	27.694	(1.023)	365532	1.53733	3.075
M 42 Total Demeton				603073	1.40982	2.820
M 43 Merphos				569446	1.53827	3.076

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC D.i
 Lab File ID: 045F4501.D
 Lab Smp Id: LHK3A1AD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: LCSD
 Level: LOW
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	715675	357838	1431350	928911	29.80
39 TOCP	472782	236391	945564	560457	18.54

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.72	13.22	14.22	13.72	0.02
39 TOCP	27.08	26.58	27.58	27.08	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.

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9H050000
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: LHK3A1AD 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_D.i\0808091.B\8141A-1.m
 Misc Info:

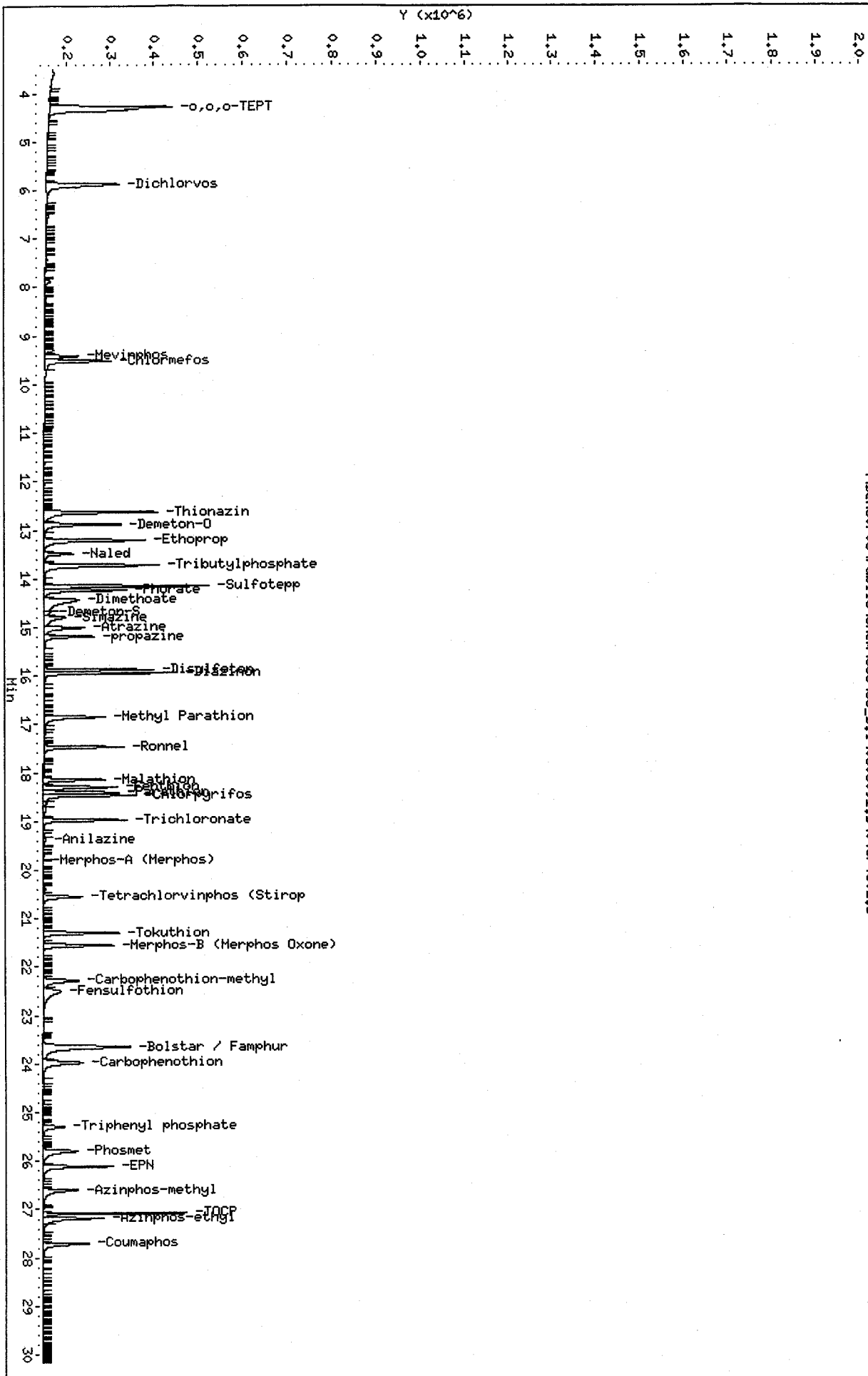
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 o,o,o-TEPT	4.000	3.449	86.23	36-119
2 Dichlorvos	4.000	3.991	99.78	50-120
3 Mevinphos	4.000	3.090	77.24	35-108
\$ 4 Chlormefos	2.000	1.490	74.51	48-114
5 Thionazin	4.000	3.258	81.45	65-116
6 Demeton-O	2.792	2.500	89.53	36-119
7 Ethoprop	4.000	3.252	81.31	65-108
8 Naled	4.000	2.639	65.97	36-119
10 Sulfotepp	4.000	2.627	65.68*	69-103
11 Phorate	4.000	2.328	58.21*	62-104
12 Dimethoate	4.000	3.111	77.78	28-115
13 Demeton-S	1.208	0.3199	26.49*	36-119
14 Simazine	4.000	3.408	85.19	47-109
15 Atrazine	4.000	3.420	85.50	36-119
16 propazine	4.000	3.472	86.81	36-119
17 Disulfoton	4.000	3.059	76.47	36-119
18 Diazinon	4.000	3.464	86.60	36-119
19 Methyl Parathion	4.000	3.438	85.94	68-119
20 Ronnel	4.000	3.275	81.87	62-115
21 Malathion	4.000	2.894	72.34	67-115
22 Fenthion	4.000	3.224	80.59	36-119
23 Parathion	4.000	3.060	76.50	36-119
25 Trichloronate	4.000	2.851	71.28	36-119
24 Chlorpyrifos	4.000	3.422	85.56	36-119
26 Anilazine	4.000	2.313	57.82	47-115
28 Tetrachlorvinphos	4.000	3.078	76.95	36-119
29 Tokuthion	4.000	3.107	77.68	36-119
32 Fensulfothion	4.000	3.676	91.91	61-115
33 Bolstar / Famphur	8.000	6.622	82.78	36-119
34 Carbophenothion	4.000	3.182	79.56	50-150
\$ 35 Triphenyl phosphat	2.000	1.664	83.21	50-150
36 Phosmet	4.000	3.324	83.10	50-150
37 EPN	4.000	3.142	78.55	36-119
38 Azinphos-methyl	4.000	3.114	77.85	55-115
41 Coumaphos	4.000	3.075	76.87	62-115
M 42 Total Demeton	4.000	2.820	70.49	47-115
M 43 Merphos	4.000	3.076	76.91	36-119

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9H050000
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LHK3A1AD 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_D.i\0808091.B\8141A-1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	2.000	1.490	74.51	48-114
\$ 35 Triphenyl phosphat	2.000	1.664	83.21	50-150



Data File Name: 045F4501.D

Inj. Date and Time: 09-AUG-2009 18:11

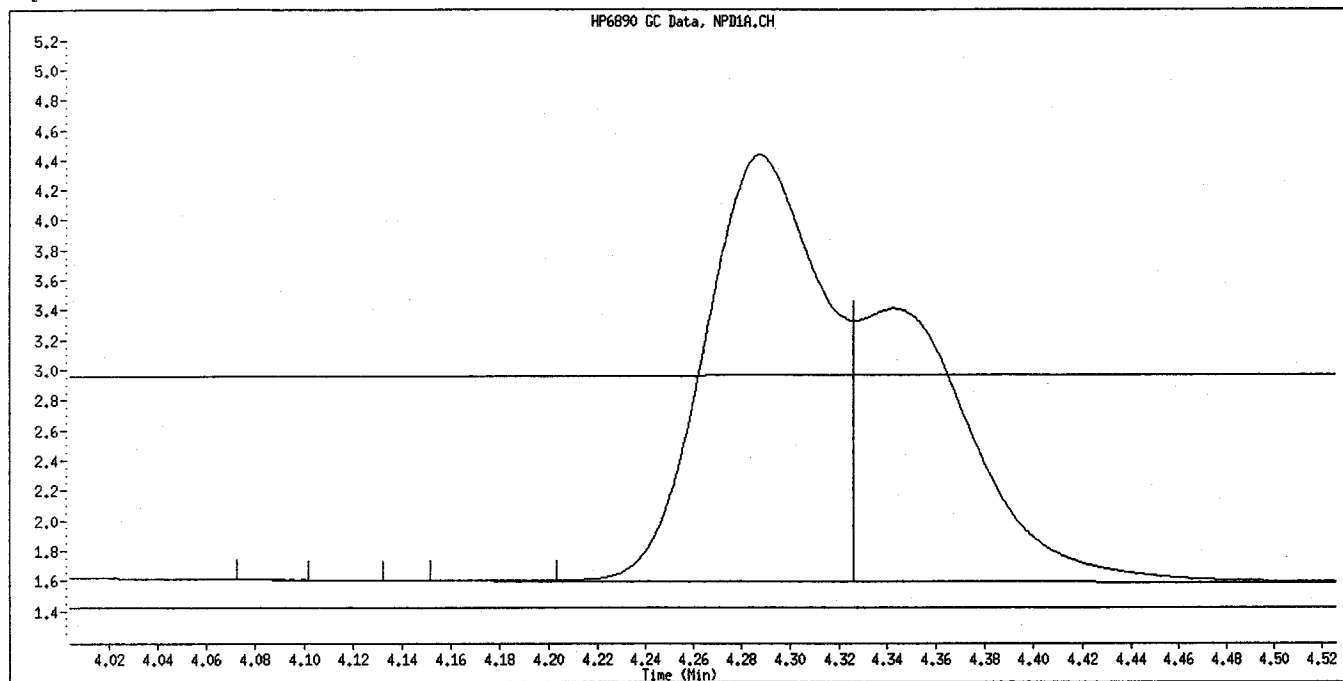
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Client ID: LCSD

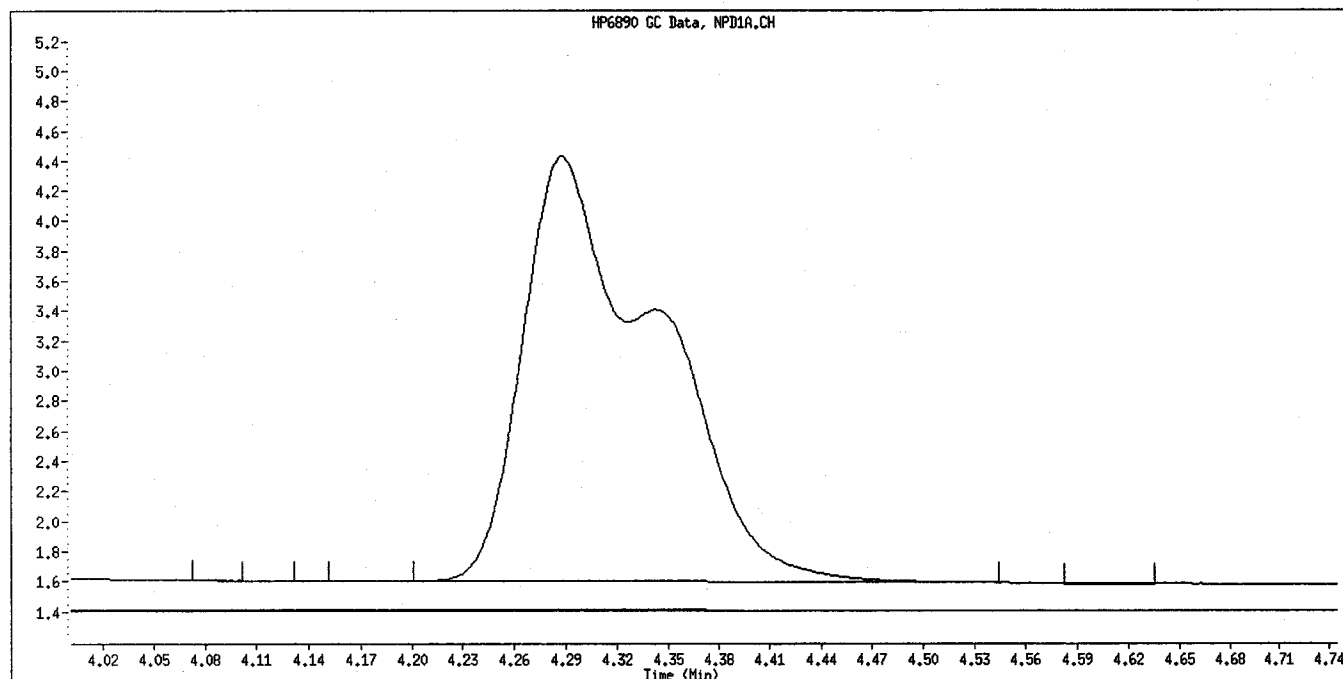
Compound Name: o,o,o-TEPT

CAS #:

Report Date: 08/10/2009



Original Integration



Manual Integration

Manually Integrated By: williamst

Manual Integration Reason: Baseline Event

Handwritten signature
8/10/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\045F4501.D
 Lab Smp Id: LHK3A1AD Client Smp ID: LCSD
 Inj Date : 09-AUG-2009 18:11
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHK3A1AD,LCSD
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Meth Date : 10-Aug-2009 13:57 williamst Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 45 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	6.780	6.758 (0.418)		1542393	1.58370	3.167
2 Dichlorvos	8.969	8.952 (0.553)		918728	2.11623	4.232
\$ 3 Chlormefos	12.896	12.885 (0.796)		468510	0.67712	1.354
4 Mevinphos	13.019	13.006 (0.803)		380269	1.44130	2.882
5 Demeton-O	15.949	15.939 (0.984)		521777	1.30934	2.619
6 Thionazin	16.076	16.067 (0.992)		988881	1.67482	3.350
* 7 Tributylphosphate	16.205	16.193 (1.000)		1041503	2.00000	
8 Ethoprop	16.345	16.332 (1.009)		858834	1.58893	3.178
9 Naled	16.931	16.921 (1.045)		257413	1.43364	2.867
10 Sulfotepp	17.244	17.234 (1.064)		1158978	1.33210	2.664
11 Phorate	17.278	17.268 (1.066)		446700	1.01506	2.030
12 Demeton-S	17.977	17.962 (1.109)		23141	0.05787	0.1157 (R)
13 Simazine	18.381	18.368 (1.134)		218434	1.94603	3.892
14 Atrazine / Propazine	18.446	18.434 (1.138)		813753	3.40428	6.808
15 Dimethoate	18.584	18.569 (1.147)		814025	1.61740	3.235
16 Diazinon	18.979	18.967 (1.171)		764169	1.48030	2.961
17 Disulfoton	19.244	19.231 (1.187)		709684	1.36109	2.722
18 Methyl Parathion	21.149	21.132 (0.737)		603930	1.84839	3.697
19 Ronnel	21.235	21.222 (0.740)		673255	1.69937	3.399
20 Malathion	22.507	22.492 (0.784)		444504	1.40710	2.814
21 Chlorpyrifos	22.661	22.644 (0.789)		614452	1.66898	3.338
22 Trichloronate	22.835	22.819 (0.795)		569904	1.26804	2.536

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	22.883	22.866	(0.797)	691818	1.65363	3.307
24 Fenthion	22.958	22.942	(0.800)	663140	1.62794	3.256
25 Merphos-A (Merphos)	23.472	23.472	(0.818)	142	0.12777	0.2555
26 Anilazine	24.469	24.451	(0.852)	6058	0.31980	0.6396 (R)
27 Tetrachlorvinphos (stirophos)	25.880	25.869	(0.901)	393566	1.52739	3.055
28 Tokuthion	26.053	26.043	(0.907)	664693	1.53219	3.064
29 Merphos-B (Merphos oxone)	26.185	26.176	(0.912)	613694	8.75558	17.51 (A)
30 Carbophenothion methyl	27.007	26.999	(0.941)	490629	1.61779	3.236
31 Fensulfothion	27.245	27.237	(0.949)	423236	1.63228	3.264
32 Bolstar	27.354	27.347	(0.953)	659014	1.58700	3.174
33 Carbophenothion	27.466	27.460	(0.957)	516446	1.48793	2.976
34 Famphur	27.650	27.644	(0.963)	560108	1.76600	3.532
\$ 35 Triphenyl phosphate	27.939	27.932	(0.973)	253742	0.85489	1.710
36 EPN	28.245	28.240	(0.984)	542337	1.59313	3.186
37 Phosmet	28.373	28.366	(0.988)	461542	1.67099	3.342
* 38 TOCP	28.710	28.705	(1.000)	685915	2.00000	
39 Azinphos-methyl	28.824	28.816	(1.004)	371360	1.60978	3.220
40 Azinphos-ethyl	29.136	29.127	(1.015)	411787	1.65506	3.310
41 Coumaphos	29.464	29.453	(1.026)	338532	1.52705	3.054
M 42 Total Demeton				544918	1.36721	2.734
M 43 Merphos				613836	1.52180	3.044

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_D.i
 Lab File ID: 045F4501.D
 Lab Smp Id: LHK3A1AD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: LCSD
 Level: LOW
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	869227	434614	1738454	1041503	19.82
38 TOCP	630081	315041	1260162	685915	8.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.21	15.71	16.71	16.21	-0.01
38 TOCP	28.71	28.21	29.21	28.71	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.

TestAmerica

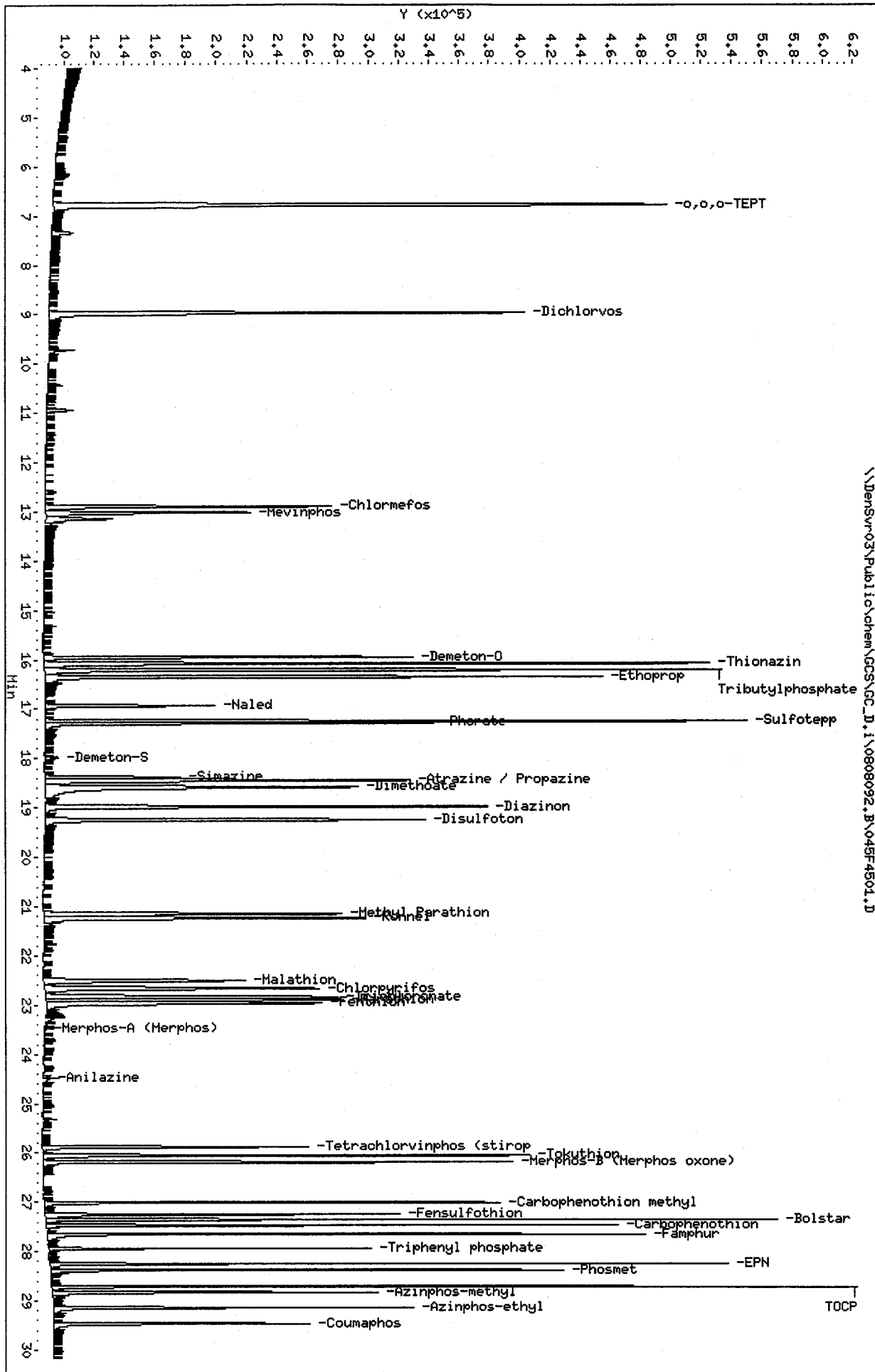
RECOVERY REPORT

Client Name: Client SDG: D9H050000
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: LHK3A1AD 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_D.i\0808092.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	3.167	79.18	36-119
2 Dichlorvos	4.000	4.232	105.81	50-120
\$ 3 Chlormefos	2.000	1.354	67.71	58-114
4 Mevinphos	4.000	2.882	72.06	35-108
5 Demeton-O	2.800	2.619	93.52	36-119
6 Thionazin	4.000	3.350	83.74	65-116
8 Ethoprop	4.000	3.178	79.45	36-119
11 Phorate	4.000	2.030	50.75	36-119
13 Simazine	4.000	3.892	97.30	36-119
16 Diazinon	4.000	2.961	74.02	36-119
17 Disulfoton	4.000	2.722	68.05	61-103
12 Demeton-S	1.200	0.1157	9.64*	36-119
15 Dimethoate	4.000	3.235	80.87	28-82
19 Ronnel	4.000	3.399	84.97	62-99
21 Chlorpyrifos	4.000	3.338	83.45	66-101
24 Fenthion	4.000	3.256	81.40	36-119
22 Trichloronate	4.000	2.536	63.40	36-119
26 Anilazine	4.000	0.6396	15.99*	36-119
M 43 Merphos	4.000	3.044	76.09	36-119
18 Methyl Parathion	4.000	3.697	92.42	36-119
20 Malathion	4.000	2.814	70.36	36-119
28 Tokuthion	4.000	3.064	76.61	36-119
23 Parathion	4.000	3.307	82.68	36-119
27 Tetrachlorvinphos	4.000	3.055	76.37	36-119
32 Bolstar	4.000	3.174	79.35	36-119
\$ 35 Triphenyl phosphat	2.000	1.710	85.49	36-119
31 Fensulfothion	4.000	3.264	81.61	20-105
36 EPN	4.000	3.186	79.66	36-119
34 Famphur	4.000	3.532	88.30	61-108
39 Azinphos-methyl	4.000	3.220	80.49	55-103
41 Coumaphos	4.000	3.054	76.35	36-119
M 42 Total Demeton	4.000	2.734	68.36	47-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	2.000	1.354	67.71	48-114

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 35 Triphenyl phosphat	2.000	1.710	85.49	50-150



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\047F4701.D
 Lab Smp Id: LHJ511AA Client Smp ID: FB080409-GW
 Inj Date : 09-AUG-2009 19:24
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHJ511AA,234-1
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Meth Date : 10-Aug-2009 13:50 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 47
 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	1056.000	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						
2 Dichlorvos						
3 Mevinphos	9.424	9.407 (0.686)		105	0.40223	0.7628 <i>NC</i>
\$ 4 Chlormefos	9.516	9.502 (0.693)		434277	0.60363	1.143
5 Thionazin	12.623	12.625 (0.919)		495	0.06848	0.1297
6 Demeton-O						
7 Ethoprop	13.208	13.205 (0.962)		96	0.08837	0.1674
8 Naled	13.443	13.482 (0.979)		141	0.17398	0.3295 <i>NAP</i>
* 9 Tributylphosphate	13.729	13.714 (1.000)		933331	2.00000	
10 Sulfotepp						
11 Phorate						
12 Dimethoate	14.385	14.416 (1.048)		1780	0.35679	0.6157 <i>NC</i>
13 Demeton-S						
14 Simazine						
15 Atrazine	15.022	14.997 (1.094)		176	0.19301	0.3655
16 propazine						
17 Disulfoton	15.901	15.866 (0.587)		2865	0.08908	0.1687
18 Diazinon						
19 Methyl Parathion						
20 Ronnel						
21 Malathion						
22 Fenthion						

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	18.393	18.392	(0.679)	114	0.18162	0.3440 <i>WAP</i>
24 Chlorpyrifos	Compound Not Detected.					
25 Trichloronate	Compound Not Detected.					
26 Anilazine	19.307	19.345	(0.713)	176	0.40736	0.7715
27 Merphos-A (Merphos)	19.804	19.804	(0.731)	246	0.10477	0.1984
28 Tetrachlorvinphos (Stirophos)	20.552	20.532	(0.759)	274	0.09173	0.177 <i>NC</i>
29 Tokuthion	Compound Not Detected.					
30 Merphos-B (Merphos Oxone)	21.564	21.536	(0.796)	122	0.12716	0.2408
31 Carbophenothion-methyl	22.245	22.254	(0.821)	122	0.10017	0.1897
32 Fensulfothion	22.472	22.465	(0.830)	63	0.30329	0.5744 <i>NC</i>
33 Bolstar / Famphur	23.631	23.627	(0.872)	63	0.11449	0.2168 <i>NC</i>
34 Carbophenothion	Compound Not Detected.					
\$ 35 Triphenyl phosphate	25.308	25.270	(0.934)	208587	0.80647	1.527
36 Phosmet	25.793	25.769	(0.952)	673	0.11068	0.2096
37 EPN	Compound Not Detected.					
38 Azinphos-methyl	Compound Not Detected.					
* 39 TOCP	27.086	27.076	(1.000)	592664	2.00000	
40 Azinphos-ethyl	Compound Not Detected.					
41 Coumaphos	Compound Not Detected.					
M 42 Total Demeton	Compound Not Detected.					
M 43 Merphos				368	0.00094	0.001780

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i
 Lab File ID: 047F4701.D
 Lab Smp Id: LHJ511AA
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808091.B\8141A-1.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: FB080409-GW
 Level: LOW
 Sample Type: WATER

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	715675	357838	1431350	933331	30.41
39 TOCP	472782	236391	945564	592664	25.36

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	13.72	13.22	14.22	13.73	0.06
39 TOCP	27.08	26.58	27.58	27.09	0.01

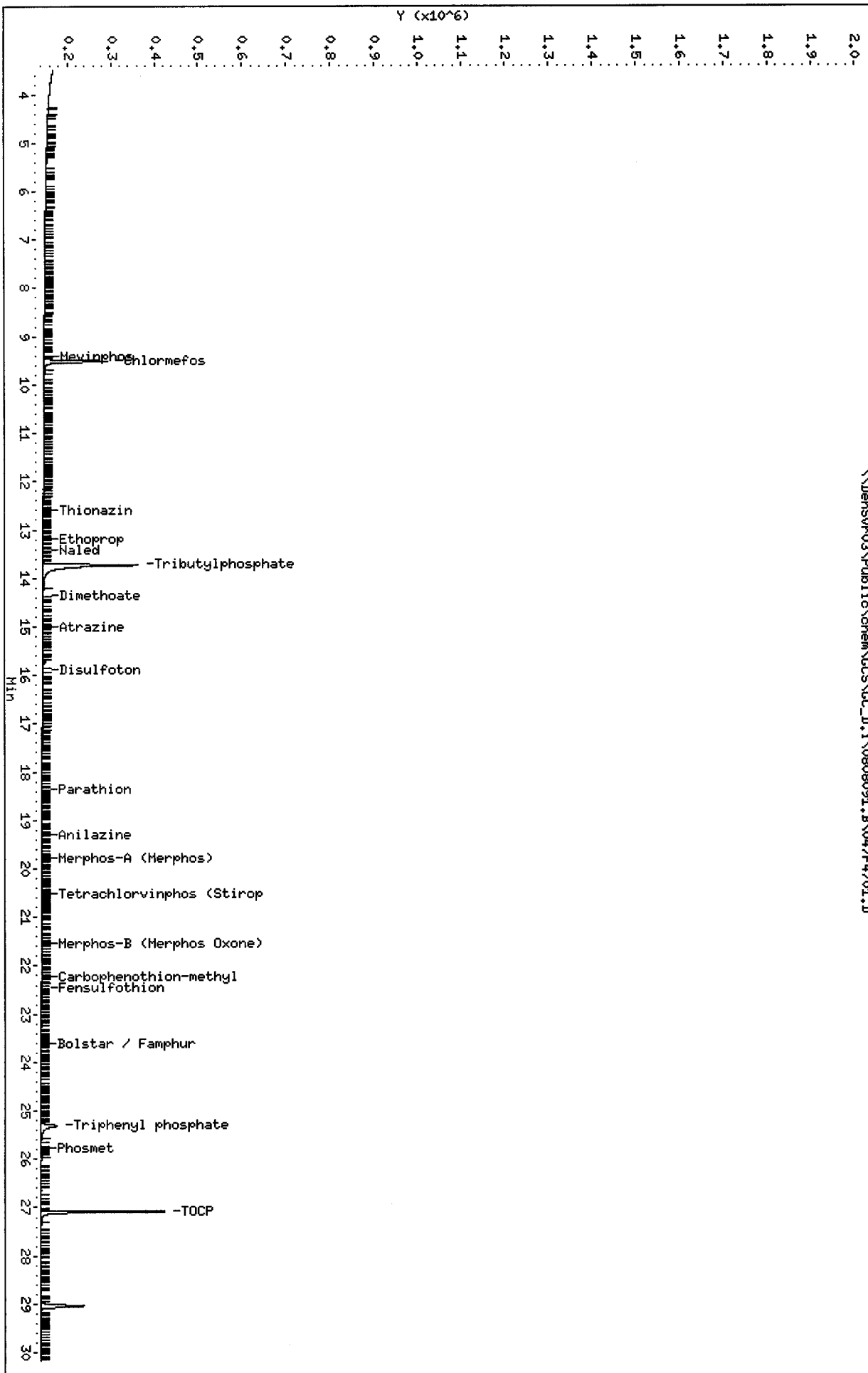
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen05-AUG-2009 00:00 Client SDG: D9H0502
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LHJ511AA Client Smp ID: FB080409-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_D.i\0808091.B\8141A-1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	1.894	1.143	60.36	48-114
\$ 35 Triphenyl phosphat	1.894	1.527	80.65	50-150



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\047F4701.D
 Lab Smp Id: LHJ511AA Client Smp ID: FB080409-GW
 Inj Date : 09-AUG-2009 19:24
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : LHJ511AA,234-1
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Meth Date : 10-Aug-2009 13:57 williamst Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 Cal File: 009F0901.D
 Als bottle: 47
 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	1056.000	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						
2 Dichlorvos						
\$ 3 Chlormefos	12.897	12.885	(0.796)	483661	0.71973	1.363
4 Mevinphos	13.011	13.006	(0.803)	1579	0.05076	0.09613
5 Demeton-O						
6 Thionazin						
* 7 Tributylphosphate	16.208	16.193	(1.000)	1017272	2.00000	
8 Ethoprop						
9 Naled	16.942	16.921	(1.045)	121	0.17048	0.3229
10 Sulfotepp	17.252	17.234	(1.064)	94	1e-004	0.0002095 (a)
11 Phorate						
12 Demeton-S						
13 Simazine	18.338	18.368	(1.131)	54	0.28745	0.5444
14 Atrazine / Propazine						
15 Dimethoate						
16 Diazinon						
17 Disulfoton						
18 Methyl Parathion	21.118	21.132	(0.736)	52	0.08669	0.1642 (a)
19 Ronnel						
20 Malathion	22.487	22.492	(0.783)	70	0.03650	0.06913 (a)
21 Chlorpyrifos						
22 Trichloronate	22.817	22.819	(0.795)	52	0.06481	0.1227

LTMPDL

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	22.862	22.866	(0.796)	80	0.13140	0.2489 (a)
24 Fenthion	Compound Not Detected.					
25 Merphos-A (Merphos)	23.474	23.472	(0.818)	52	0.12747	0.2414
26 Anilazine	Compound Not Detected.					
27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
28 Tokuthion	Compound Not Detected.					
29 Merphos-B (Merphos oxone)	26.213	26.176	(0.913)	61	0.12962	0.2455 (a)
30 Carbophenothion methyl	Compound Not Detected.					
31 Fensulfothion	Compound Not Detected.					
32 Bolstar	Compound Not Detected.					
33 Carbophenothion	Compound Not Detected.					
34 Famphur	Compound Not Detected.					
\$ 35 Triphenyl phosphate	27.941	27.932	(0.973)	263714	0.86805	1.644
36 EPN	Compound Not Detected.					
37 Phosmet	28.369	28.366	(0.988)	60	0.05640	0.1068
* 38 TOCP	28.711	28.705	(1.000)	702064	2.00000	
39 Azinphos-methyl	Compound Not Detected.					
40 Azinphos-ethyl	Compound Not Detected.					
41 Coumaphos	Compound Not Detected.					
M 42 Total Demeton	Compound Not Detected.					
M 43 Merphos	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_D.i
 Lab File ID: 047F4701.D
 Lab Smp Id: LHJ511AA
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0808092.B\8141A-2.m
 Misc Info:

Calibration Date: 09-AUG-2009
 Calibration Time: 09:41
 Client Smp ID: FB080409-GW
 Level: LOW
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	869227	434614	1738454	1017272	17.03
38 TOCP	630081	315041	1260162	702064	11.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.21	15.71	16.71	16.21	0.00
38 TOCP	28.71	28.21	29.21	28.71	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.

TestAmerica

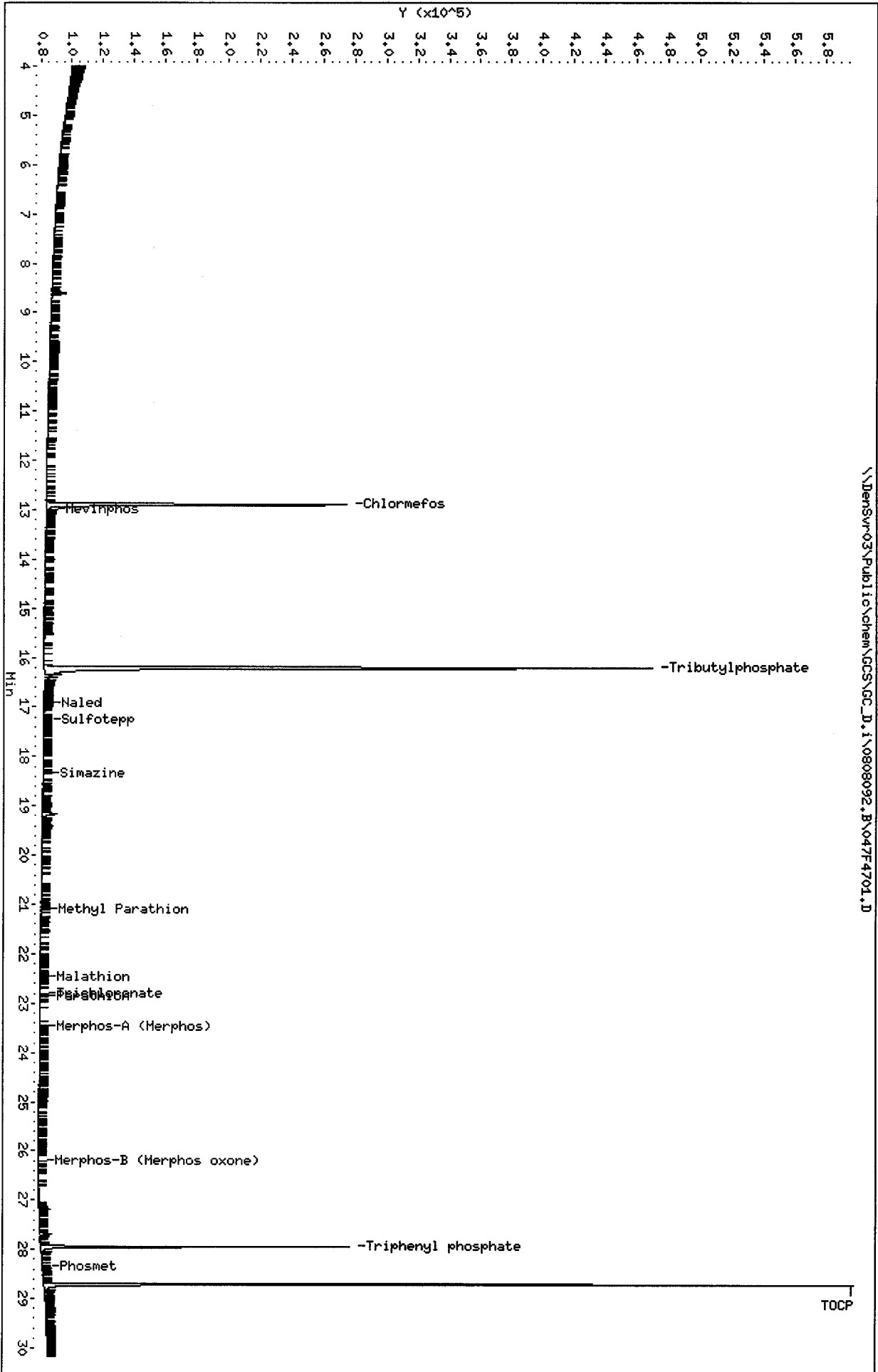
RECOVERY REPORT

Client Name: Northgate Environmen05-AUG-2009 00:00 Client SDG: D9H0502
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: LHJ511AA Client Smp ID: FB080409-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_D.i\0808092.B\8141A-2.m
 Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	1.894	1.363	71.97	48-114
\$ 35 Triphenyl phosphat	1.894	1.644	86.81	50-150

Data File: \\DensSvr03\Public\chem\GCSS\GC_D.I\0808092.B\047F4701.D
 Date: 09-AUG-2009 19:24
 Client ID: F9080409-GM
 Sample Info: LHJ5119A,234-1
 Column phase: RTX-QPest

Instrument: GC_D.I
 Operator: MPR/TLW
 Column diameter: 0.32



**GC SEMIVOLATILE
INITIAL CALIBRATION DATA**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC and HPLC ICAL Review Checklist

608 8081 8082 8151 8141
 TPH/DRO Other SV 214
 8310 8330 Other HPLC _____

601 602 8021 BTEX
 TPH/GRO Other Volatile GC _____

Calibration Date: 08/06/09
 Instrument ID: D

Initial Calibration	Review Items	Level 1		Level 2	Comments
		Yes	No		
1.	Are correct data files used?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
2.	Is there a sufficient number of calibration points used?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
3.	Are reasons for removal of points documented?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
4.	Is linearity acceptable, 8000 Series: Linear least-squares regression with $r \geq 0.990$, (DOD projects require $r \geq 0.995$) quadratic fit COD $r^2 > 0.990$, or average response factors with RSD $\leq 20\%$? 600 Series: $< 10\%$ RSD or linear regression	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<u>Better linearity</u>
5.	Are the correct RT windows applied to the ICAL integration?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
6.	Are DDT & Endrin breakdown $< 15\%$?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
7.	Is each manual integration completely documented, signed and appropriate?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
8.	Is traceability of standards properly documented?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
9.	Was second level hand calculation performed? (document analyte checked)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
10.	Was second-source ICV performed & recovery 85-115%?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Primary Include %R Mevinphos -22.2%, Pnorate -18.3%, Simazine +23.5%, Atrazine -37.5%, Carbofenthozin - methyl @ -33.5% Secondary Include %R Mevinphos -21.1%, Naled -15.9%, Pnorate -19.9%, Simazine +38.5%, Atrazine -58.8%, Carbofenthozin - methyl -32.6%

1st Level Reviewer: [Signature] Date: 8/9/09
 2nd Level Reviewer: [Signature] Date: 8/18/09

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	8141 L7 GSV82609				
4	Vial 4	8141 L6 GSV87009				
5	Vial 5	8141 L5 GSV87109				
6	Vial 6	8141 L4 GSV87209				
7	Vial 7	8141 L3 GSV87309				
8	Vial 8	8141 L2 GSV87409				
9	Vial 9	8141 L1 GSV87509				
10	Vial 10	8141 SS GSV87609				
11	Vial 11	GSV0893-09 SURR				
12	Vial 12	GSV0883-09 SPK				
13	Vial 13	LG1WM1AA,MB				
14	Vial 14	LG1WM1AC,LCS				
15	Vial 15	LG1WM1AD,LCS				
16	Vial 16	LGX0F1AE,167-1				
17	Vial 17	LGX1P1AN,167-2				
18	Vial 18	LG34K1AA,MB				
19	Vial 19	LG34K1AC,LCS				
20	Vial 20	LG34K1AD,LCS				
21	Vial 21	LG2X51AA,280-1				
22	Vial 22	LG20H1AA,280-2				
23	Vial 23	LG20J1AA,280-3				
24	Vial 24	LG20L1AA,280-4				
25	Vial 25	LG20N1AA,280-5				
26	Vial 26	LG29G1AA,313-1				
27	Vial 27	LG3WP1AA,149-1				
28	Vial 28	LG3XR1AA,158-1				
29	Vial 29	8141 CCV GSV861				
30	Vial 30	LHA0K1AA,MB				
31	Vial 31	LHA0K1AC,LCS				
32	Vial 32	LHA0K1AD,LCS				
33	Vial 33	LG7XK1AA,180-1				
34	Vial 34	LG7XP1AA,180-2				
35	Vial 35	LG7XQ1AA,180-3				
36	Vial 36	LG7XQ1AC,180-3S				
37	Vial 37	LG7XQ1AD,180-3D				
38	Vial 38	LG7XW1AA,180-4				
39	Vial 39	LG70G1AA,185-1				
40	Vial 40	LHA0P1AA,MB				
41	Vial 41	LHA0P1AC,LCS				
42	Vial 42	LHA0P1AD,LCS				
43	Vial 43	LG7N31CC,159-1				
44	Vial 44	LG48D1AA,MB				
45	Vial 45	LG48D1AC,LCS				
46	Vial 46	LG48D1AD,LCS				
47	Vial 47	LG3F51AD,333-9				
48	Vial 48	LG4761AA,MB				
49	Vial 49	LG4761AC,LCS				
50	Vial 50	LG4761AD,LCS				
51	Vial 51	LG4XL1AA,133-1				
52	Vial 52	8141 CCV GSV861				
53	Vial 53	LG8X21AA,MB				
54	Vial 54	LG8X21AC,LCS				
55	Vial 55	LG8X21AD,LCS				
56	Vial 56	LG1TK1AA,108-21				
57	Vial 57	LG8TT1AA,MB				
58	Vial 58	LG8TT1AC,LCS				
59	Vial 59	LG2971AA,314-1				

9205278

9206112

9211421

9211426

9208406

9208402

9210504

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	LG3AD1AA,314-2				
61	Vial 61	LG3VM1AA,139-1				
62	Vial 62	LG3VM1AD,139-1S				
63	Vial 63	LG3VM1AE,139-1D				
64	Vial 64	LG3VP1AA,139-2				
65	Vial 65	LG3VR1AA,139-3				
66	Vial 66	8141 CCV GSV861				
67	Vial 67	LG3W11AA,150-1				
68	Vial 68	LG3W21AA,150-2				
69	Vial 69	LG3W31AA,150-3				
70	Vial 70	LG3W51AA,150-4				
71	Vial 71	LHFXR1AA,MB				
72	Vial 72	LHFXR1AC,LCS				
73	Vial 73	LGN2D1CQ,316-5S				
74	Vial 74	LGN2D1CR,316-5D				
75	Vial 75	LGN2D2CN,316-5				
76	Vial 76	LGN2J2CN,316-10				
77	Vial 77	8141 CCV GSV861				
78	Vial 2	HEXANE/ACETONE				

9210468

9215328

Sequence Table (Back Injector):

No entries - empty table!

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.i

Calibration File Names:
 Level 1: \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\009F0901.D
 Level 2: \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\008F0801.D
 Level 3: \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\007F0701.D
 Level 4: \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\006F0601.D
 Level 5: \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D
 Level 6: \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\004F0401.D
 Level 7: \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\003F0301.D

SEE CALIBRATION HISTORY

Compound	Coefficients							Curve	b	ml	m2	%RSD or R ²
	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	5.0000 Level 7					
1 o,o,o-TBPT	182432 4488963	420455	908197	1806303	2678940	3532965	QUAD	-0.00185	0.46722	0.02869	0.99856	
2 Dichlorvos	0.88775 0.80012	0.82394	0.83968	0.86756	0.82268	0.85000	AVRG		0.84168		3.52069	
3 Mevinphos	++++ 1152906	31592	111446	356823	596188	830977	LNLR	0.20087	0.46926		0.99901	
5 Thionazin	61338 2920220	194202	544011	1140983	1718412	2252008	WLNLR	0.03379	1.18951		0.99527	

*All weighted linear curve 1/x²

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method File : \\Densvtr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

Compound	Level							Curve	b	Coefficients			%RSD or R ²
	1	2	3	4	5	6	m1			m2			
6 Demeton-O	30299 761277	63511	157798	301922	460549	581572	WLNIR	-0.00975	0.92539			0.99395	
7 Ethoprop	42588 2505899	199533	491981	1004283	1510941	1955169	WLNIR	0.04409	1.07839			0.99207	
8 Naled	9478 1127359	41661	162318	361004	602529	777472	QUAD	0.08662	2.45165	-0.13780		0.99888	
10 Sulfofepp	1.56280 1.47299	1.44519	1.65714	1.68788	1.57081	1.56396	AVRG		1.56582			5.61879	
11 Phorate	1.13644 0.92922	0.95432	1.14044	1.07117	0.99690	0.98879	AVRG		1.03104			8.29536	
12 Dimethoate	++++ 2590760	59892	356039	877602	1446366	1934346	WLNIR	0.17667	1.10316			0.99682	
13 Demeton-S	421 1490677	101878	285098	598857	888508	1152288	LINR	0.00806	0.86060			0.99287	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvtr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.i

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	b	Coefficients		%RSD or R ²
									m1	m2	
14 Simazine	++++ 804726	48256	174622	313833	493520	631700	QUAD	0.10651	2.04581	1.46981	0.99811
15 Atrazine	++++ 1175975	56963	206785	417568	667495	887166	WLNLR	0.09612	0.48853		0.99171
16 propazine	++++ 0.44356	0.35592	0.47135	0.45861	0.45434	0.46102	AVRG		0.44080		9.65392
17 Disulfoton	48155 2454335	167271	445811	956556	1440699	1882342	WLNLR	0.04123	1.45920		0.99632
18 Diazinon	122906 2542893	248611	519628	101692	1526415	1969776	WLNLR	-0.05341	1.44136		0.99767
19 Methyl Parathion	40155 1968772	137375	334656	727074	1132305	1471875	WLNLR	0.03631	1.12970		0.99901
20 Ronnel	1.03546 1.20553	1.01940	1.14102	1.20523	1.19683	1.22965	AVRG		1.14759		7.53685

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.i

Compound	Coefficients							b	ml	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				
21 Malathion	0.86188 0.98036	0.91387	1.07877	1.08977	1.04406	1.03997	AVRG	1.00124			8.61800
22 Fenthion	49230 2105793	134570	363139	790291	1222175	1589817	WLNLR	1.20261			0.99507
23 Parathion	++++ 2156342	117278	333400	780379	1232087	1621434	WLNLR	0.09066	1.27814		0.99835
24 Chlorpyrifos	++++ 2373426	265889	506108	926482	1387727	1798423	WLNLR	-0.10926	1.27881		0.99829
25 Trichloronate	1.46832 1.43014	1.29281	1.40677	1.46387	1.44859	1.47665	AVRG	1.42673			4.47196
26 Anilazine	413 224347	937	23197	62364	109906	153137	LINR	0.20138	0.12922		0.99583
27 Merphos-A (Merphos)	27686 1714293	102703	274971	619861	975630	1320113	WLNLR	0.05196	0.98235		0.99735

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvtr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.i

Compound	Level							Curve	b	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	m1			m2			
28 Tetrachlorvinphos (Stirophos)	27000 1539127	86949	229899	510754	821547	1111793	WLNLR	0.04531	0.82719			0.99642	
29 Tokuthion	1.37786 1.33792	1.22539	1.38006	1.40966	1.37398	1.39384	AVRG		1.35696			4.56962	
30 Merphos-B (Merphos Oxone)	49732 528766	78157	159629	271041	371990	422425	QVAD	0.06346	0.59850	3.86180		0.99854	
31 Carbophenothion-methyl	29119 1741313	99151	280480	618555	972242	1285762	WLNLR	0.04987	0.97720			0.99632	
32 Fensulfothion	++++ 1592051	53776	214899	563535	876396	1172734	WLNLR	0.15154	0.96497			0.99770	
33 Bolstar / Pamphur	97513 4156553	282731	741469	1568236	2416510	3128382	WLNLR	0.05716	1.19757			0.99670	
34 Carbophenothion	1.08187 1.06490	1.03600	1.15360	1.13412	1.10854	1.10645	AVRG		1.09793			3.67689	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvtr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.i

Compound	0.2000000	0.5000000	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
36 Phosmet	25548 1647305	91979	268843	595984	916951	1218253	WLINR	0.05412	0.93334		0.99580
37 EPN	1.04741 1.05270	1.13202	1.22186	1.20575	1.11750	1.12936	AVRG		1.12952		5.95345
38 Azinphos-methyl	25233 1592084	73949	233826	545683	862799	1158610	LINR	0.07569	0.89630		0.99930
40 Azinphos-ethyl	1.20072 0.97822	0.93049	1.06940	1.04526	1.02814	1.02319	AVRG		1.03935		8.14067
41 Coumaphos	33445 1602651	95853	261325	569489	895805	1188819	WLINR	0.03646	0.89074		0.99560
M 42 Total Demeton	30720 2251954	165389	442896	900779	1349057	1733860	WLINR	0.05788	1.41556		0.99198
M 43 Merphos	1.39750 1.21510	1.23094	1.38907	1.38298	1.31717	1.31436	AVRG		1.32102		5.67433

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.1\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.1

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			m1	m2	
\$ 4 Chlorfempfos	5.0000										
	Level 7										
	1.70854	1.55109	1.63649	1.61328	1.45247	1.46197	AVRG		1.54167		7.79134
	1.36788										
\$ 35 Triphenyl phosphate	0.74982	0.81969	0.94206	0.95098	0.90064	0.90309	AVRG		0.87281		8.28995
	0.84340										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Last Edit : 07-Aug-2009 13:45 GC_D.i

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

Report Date: 07-Aug-2009 13:50

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
Start Cal Date: 06-AUG-2009 14:56
End Cal Date : 06-AUG-2009 18:34
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
06-AUG-2009 18:34	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
06-AUG-2009 17:58	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
06-AUG-2009 17:21	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
06-AUG-2009 16:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
06-AUG-2009 16:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
06-AUG-2009 15:32	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
06-AUG-2009 14:56	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

06-AUG-2009 19:10	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\010F1001.D
07-AUG-2009 06:42	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\029F2901.D
06-AUG-2009 16:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.i

Calibration File Names:

Level 1: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\009F0901.D
 Level 2: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\008F0801.D
 Level 3: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\007F0701.D
 Level 4: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\006F0601.D
 Level 5: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\005F0501.D
 Level 6: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\004F0401.D
 Level 7: \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\003F0301.D

SEE CALIBRATION HISTORY

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	b	Coefficients		%RSD or R ²
	5.0000 Level 7								m1	m2	
1 o,o,o-TERT	2.29043 1.59199	1.90123 1.90123	1.95130 1.95130	1.88382 1.88382	1.73356 1.73356	1.73918 1.73918	AVRG		1.87022		11.90741
2 Dichlorvos	0.89869 0.78454	0.78758 0.78758	0.82805 0.82805	0.86014 0.86014	0.82558 0.82558	0.85108 0.85108	AVRG		0.83367		4.86412
4 Mevinphos	26181 1418878	90159 90159	249277 249277	555210 555210	847872 847872	1096662 1096662	LINR	0.02241	0.52291		0.99690
5 Demeton-O	0.74359 0.74831	0.68467 0.68467	0.79510 0.79510	0.82182 0.82182	0.78659 0.78659	0.77064 0.77064	AVRG		0.76525		5.74609

* All weighted linear are 1/x²

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

Compound	Level							Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	m1			m2		
6 Thionazin	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6						
	1.14565	1.08329	1.20126	1.20198	1.13145	1.12656	AVRG			1.13382		5.03485
	1.04660											
8 Ethoprop	150814	267910	555560	1095403	1622717	2051405	WLNLR	-0.08621		0.93634		0.99376
	2583304											
9 Naled	12427	47634	159760	373106	617906	787967	QUAD	0.08493		2.59831	-0.16856	0.99915
	1131291											
10 Sulfotepp	1.76900	1.56005	1.81850	1.75939	1.64614	1.63203	AVRG			1.67073		6.89125
	1.51002											
11 Phorate	1.08434	0.83104	0.84616	0.84084	0.79408	0.78203	AVRG			0.84507		13.29300
	0.73702											
12 Demeton-S	0.62408	0.72296	0.82414	0.81846	0.80405	0.81520	AVRG			0.76794		9.50535
	0.76672											
13 Simazine	6499	15934	82213	217050	364617	492868	LNLR	0.14352		0.25284		0.99829
	674577											

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

Compound	Level							Curve	b	Coefficients		%RSD or R ²
	1	2	3	4	5	6	m1			m2		
14 Altrazine / Propazine	0.45307 0.46112	0.43687	0.46450	0.46986	0.45749	0.47026	AVRG	0.03026	1.00403		2.52599	
15 Dimethoate	62417 2698083	178809	484895	1037511	1616390	2052825	WLNTR	0.03026	1.00403		0.99496	
16 Diazinon	1.12790 0.87260	0.98078	1.05404	1.02017	0.94993	0.93374	AVRG		0.99131		8.50540	
17 Disulfoton	1.04034 0.92562	0.96498	1.05301	1.04708	0.99340	0.98440	AVRG		1.00126		4.77046	
18 Methyl Parathion	40092 1936768	130034	351856	753320	1163940	1488025	WLNTR	0.04327	0.99949		0.99615	
19 Ronnel	1.29240 1.09180	1.09578	1.15751	1.15464	1.14108	1.15310	AVRG		1.15519		5.76214	
20 Malathion	52293 1824966	150756	354820	728530	1103657	1406900	WLNTR	0.01814	0.94549		0.99782	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : FALCON
 Method file : \\Densvrr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

Compound	0.2000000	0.5000000	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	OF R ²
21 Chlorpyrifos	60489	169871	394413	832490	1290170	1671357	WLINR	0.02011	1.09999		0.99883
	2210724										
22 Trichloronate	66017	196799	455989	1021736	1622974	2093978	WLINR	0.03235	1.38094		0.99763
	2890038										
23 Parathion	66767	175066	440954	893471	1339063	1741701	QUAD	0.06563	0.65024	0.10357	0.99479
	2140679										
24 Fenitron	89878	206817	455004	922040	1408001	1789955	WLINR	-0.01244	1.16987		0.99827
	2341329										
25 Merphos-A (Merphos)	23197	104851	277563	631476	1003697	1339983	WLINR	0.06365	0.87639		0.99746
	1728719										
26 Anilazine	3273	10789	27039	64885	101616	129151	WLINR	0.06368	0.09179		0.99697
	195793										
27 Tetrachlorvinphos (stirophos)	35965	97796	256768	576694	925221	1220938	WLINR	0.03907	0.79183		0.99222
	1682420										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcom
 Method file : \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.i

Compound	Level							Curve	b	Coefficients		%RSD or R ²
	1	2	3	4	5	6	m1			m2		
28 Tokuhion	1.22601	1.12742	1.27127	1.32225	1.30944	1.33086	AVRG		1.26493		5.59788	
	1.26727											
29 Merphos-B (Merphos oxone)	58022	96740	174313	293170	395538	439795	QUAD	0.06477	0.52377	4.80248	0.99795	
	547067											
30 Carboxphenothion methyl	0.75736	0.75717	0.89847	0.94809	0.94520	0.96010	AVRG		0.88428		10.06653	
	0.92358											
31 Fensulfothion	31957	101238	280688	603115	932760	1195644	WLNLR	0.04406	0.79919		0.99507	
	1541611											
32 Bolstar	1.35003	1.19068	1.27553	1.24212	1.18136	1.16644	AVRG		1.21081		7.36840	
	1.06951											
33 Carboxphenothion	0.99270	0.91157	1.03031	1.05279	1.04016	1.05422	AVRG		1.01205		4.96052	
	1.00258											
34 Famphur	0.81755	0.80571	0.96709	1.00392	0.96583	0.98385	AVRG		0.92479		8.70957	
	0.92956											

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensVr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.i

Compound	Level							Curve	b	Coefficients		%RSD or R ²
	1	2	3	4	5	6	m1			m2		
36 EPN	1.02676 0.90816	0.93500	1.04721	1.04625	0.99870	0.98619	AVRG		0.99261		5.44915	
37 Phosmet	42368 1655568	114720	302493	636769	974935	1249688	WLNLR	0.02810	0.83340		0.99564	
39 Azinphos-methyl	37094 1429834	89923	240868	524807	823806	1072140	WLNLR	0.02728	0.69625		0.99187	
40 Azinphos-ethyl	0.69495 0.69568	0.65912	0.76659	0.77776	0.74616	0.73804	AVRG		0.72547		5.96411	
41 Coumaphos	37102 1373774	91236	236130	504566	780746	1021332	WLNLR	0.02252	0.66605		0.99432	
M 42 Total Demeeton	56597 2162260	167552	404997	836927	1295869	1672111	WLNLR	0.02537	1.10859		0.99819	
M 43 Merphos	81219 2275786	201591	451876	924646	1399235	1779778	WLNLR	-0.00193	1.17315		0.99761	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : FALCON
 Method file : \\Densvrr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

Compound	Level							Curve	b	Coefficients		%RSD or R^2
	1	2	3	4	5	6	m1			m2		
3 Chloromethos	118440	285008	643087	1328045	2008587	2624051	LINR	-0.03570	1.20195		0.99676	
35 Triphenyl phosphate	0.91508	0.82368	0.91619	0.91274	0.86631	0.85066	AVRG		0.86545		6.27482	
	0.2000000	0.5000000	1.0000	2.0000	3.0000	4.0000						
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	5.0000											
	Level 7											

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2009 14:56
 End Cal Date : 06-AUG-2009 18:34
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : FALCON
 Method file : \\DensVr03\Public\chem\GCS\GC_D.1\0806092.B\8141A-2.m
 Last Edit : 07-Aug-2009 13:44 GC_D.1

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

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
Start Cal Date: 06-AUG-2009 14:56
End Cal Date : 06-AUG-2009 18:34
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
06-AUG-2009 18:34	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
06-AUG-2009 17:58	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
06-AUG-2009 17:21	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
06-AUG-2009 16:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
06-AUG-2009 16:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
06-AUG-2009 15:32	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
06-AUG-2009 14:56	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

06-AUG-2009 19:10	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\010F1001.D
06-AUG-2009 16:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\006F0601.D

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
 Lab Sample ID: 8141 SS GSV87609
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		%D
1 o,o,o-TEPT	2.0000	2.2402	12.0	15.0
2 Dichlorvos	2.0000	2.0361	1.8	15.0
3 Mevinphos	2.0000	1.5564	22.2	15.0
4 Chlormefos	2.0000	1.7365	13.2	15.0
5 Thionazin	2.0000	2.2350	11.8	15.0
6 Demeton-O	0.6500	2.0253	211.6	15.0
7 Ethoprop	2.0000	1.9936	0.3	15.0
8 Naled	2.0000	1.7057	14.7	15.0
9 Sulfotepp	2.0000	1.9680	1.6	15.0
10 Phorate	2.0000	1.6336	18.3	15.0
11 Dimethoate	2.0000	2.1822	9.1	15.0
12 Demeton-S	1.3600	0.2056	84.9	15.0
13 Simazine	2.0000	2.4694	23.5	15.0
14 Atrazine	2.0000	2.1611	8.1	15.0
15 propazine	2.0000	2.1931	9.7	15.0
17 Disulfoton	2.0000	1.9744	1.3	15.0
16 Diazinon	2.0000	1.8671	6.6	15.0
18 Methyl Parathion	2.0000	1.9703	1.5	15.0
19 Ronnel	2.0000	2.0637	3.2	15.0
20 Malathion	2.0000	1.9362	3.2	15.0
21 Fenthion	2.0000	1.9060	4.7	15.0
22 Parathion	2.0000	2.0598	3.0	15.0
23 Chlorpyrifos	2.0000	1.9775	1.1	15.0
24 Trichloronate	2.0000	1.8094	9.5	15.0
25 Anilazine	2.0000	1.2499	37.5	15.0
148 Merphos-A (Merphos)	2.0000	0.2980	85.1	999.0
26 Tetrachlorvinphos (Stirophos)	2.0000	1.8887	5.6	15.0
28 Tokuthion	2.0000	1.9432	2.8	15.0
149 Merphos-B (Merphos Oxone)	2.0000	11.8778	493.9	999.0
29 Carbophenothion-methyl	2.0000	1.3305	33.5	15.0
29 Fensulfothion	2.0000	1.9661	1.7	15.0
30 Bolstar / Famphur	4.0000	4.2423	6.1	15.0
32 Carbophenothion	2.0000	2.1165	5.8	15.0
31 Triphenyl phosphate	2.0000	1.8485	7.6	15.0
34 Phosmet	2.0000	2.2723	13.6	15.0
32 EPN	2.0000	2.2096	10.5	15.0
33 Azinphos-methyl	2.0000	1.8506	7.5	15.0
38 Azinphos-ethyl	2.0000	2.0552	2.8	15.0
36 Coumaphos	2.0000	1.9367	3.2	15.0

ok, see total demeton
ok, see total demeton

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\010F1001.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
Lab Sample ID: 8141 SS GSV87609
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.2310	11.5	15.0
27 Merphos	2.0000	1.8981	5.1	15.0

Average %D = 29.5

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
 Lab Sample ID: 8141 SS GSV87609
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.0000	2.1425	7.1	15.0
2 Dichlorvos	2.0000	1.9878	0.6	15.0
3 Chlormefos	2.0000	1.6927	15.4	15.0 <-OK
4 Mevinphos	2.0000	1.5781	21.1	15.0 <-
5 Demeton-O	0.6500	2.0683	218.2	15.0 <-OK, see total demeton
6 Thionazin	2.0000	2.2135	10.7	15.0
7 Ethoprop	2.0000	1.9677	1.6	15.0
10 Naled	2.0000	1.6813	15.9	15.0 <-
145 Sulfotepp	2.0000	1.8424	7.9	15.0
8 Phorate	2.0000	1.6013	19.9	15.0 <-
15 Demeton-S	1.3600	0.0935	93.1	15.0 <-OK, see total demeton
10 Simazine	2.0000	2.7702	38.5	15.0 <-
13 Atrazine / Propazine	4.0000	4.2316	5.8	15.0
16 Dimethoate	2.0000	2.1608	8.0	15.0
11 Diazinon	2.0000	1.8234	8.8	15.0
14 Disulfoton	2.0000	1.9546	2.3	15.0
23 Methyl Parathion	2.0000	1.9650	1.7	15.0
17 Ronnel	2.0000	1.9361	3.2	15.0
24 Malathion	2.0000	1.8572	7.1	15.0
18 Chlorpyrifos	2.0000	1.9742	1.3	15.0
20 Trichloronate	2.0000	1.7303	13.5	15.0
26 Parathion	2.0000	2.0441	2.2	15.0
19 Fenthion	2.0000	1.9107	4.5	15.0
151 Merphos-A (Merphos)	2.0000	0.2815	85.9	999.0
21 Anilazine	2.0000	0.8232	58.8	15.0 <-
27 Tetrachlorvinphos (stirophos)	2.0000	1.8642	6.8	15.0
25 Tokuthion	2.0000	1.9613	1.9	15.0
148 Merphos-B (Merphos oxone)	2.0000	11.9171	495.9	999.0
28 Carbophenothion methyl	2.0000	1.3477	32.6	15.0 <-
30 Fensulfothion	2.0000	1.9468	2.7	15.0
28 Bolstar	2.0000	1.9885	0.6	15.0
30 Carbophenothion	2.0000	2.1111	5.6	15.0
33 Famphur	2.0000	2.2821	14.1	15.0
29 Triphenyl phosphate	2.0000	1.7892	10.5	15.0
32 EPN	2.0000	2.1924	9.6	15.0
34 Phosmet	2.0000	2.2747	13.7	15.0
34 Azinphos-methyl	2.0000	1.8178	9.1	15.0
35 Azinphos-ethyl	2.0000	2.1653	8.3	15.0
36 Coumaphos	2.0000	1.8960	5.2	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\010F1001.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 19:10
Lab Sample ID: 8141 SS GSV87609
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1617	8.1	15.0
22 Merphos	2.0000	1.9093	4.5	15.0

Average %D = 31.3

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\003F0301.D
 Lab Smp Id: 8141 L7 GSV82609 Client Smp ID: 8141 L7 GSV82609
 Inj Date : 06-AUG-2009 14:56
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L7 GSV82609
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.337	4.267	(0.316)	4488963	5.00000	4.934 (M)
2 Dichlorvos	5.900	5.865	(0.430)	2137554	5.00000	4.753
3 Mevinphos	9.419	9.407	(0.687)	1152906	5.00000	5.000 (A)
\$ 4 Chlormefos	9.511	9.502	(0.694)	3654328	5.00000	4.436
5 Thionazin	12.625	12.625	(0.921)	2920220	5.00000	4.662
6 Demeton-O	12.876	12.876	(0.939)	761277	1.62500	1.520
7 Ethoprop	13.201	13.205	(0.963)	2505899	5.00000	4.437
8 Naled	13.481	13.482	(0.983)	1127359	5.00000	5.039 (A)
* 9 Tributylphosphate	13.709	13.714	(1.000)	1068614	2.00000	
10 Sulfotepp	14.143	14.143	(1.032)	3935138	5.00000	4.704
11 Phorate	14.227	14.227	(1.038)	2482436	5.00000	4.506
12 Dimethoate	14.399	14.416	(1.050)	2590760	5.00000	4.749
13 Demeton-S	14.679	14.682	(1.071)	1490677	3.40000	3.258
14 Simazine	14.779	14.783	(1.078)	804726	5.00000	4.961
15 Atrazine	14.996	14.997	(1.094)	1175975	5.00000	4.697
16 propazine	15.177	15.178	(1.107)	1184985	5.00000	5.031 (A)
17 Disulfoton	15.864	15.866	(0.586)	2454335	5.00000	4.638
18 Diazinon	15.933	15.934	(0.588)	2542893	5.00000	4.672
19 Methyl Parathion	16.827	16.829	(0.622)	1968772	5.00000	4.793
20 Ronnel	17.454	17.456	(0.645)	2225399	5.00000	5.252 (A)
21 Malathion	18.133	18.134	(0.670)	1809734	5.00000	4.896
22 Fenthion	18.283	18.284	(0.675)	2105793	5.00000	4.802
23 Parathion	18.389	18.392	(0.679)	2156342	5.00000	4.751
24 Chlorpyrifos	18.450	18.451	(0.681)	2373426	5.00000	4.808
25 Trichloronate	18.957	18.958	(0.700)	2640021	5.00000	5.012 (A)
26 Anilazine	19.339	19.345	(0.714)	224347	5.00000	5.105 (A)
27 Merphos-A (Merphos)	19.800	19.804	(0.731)	1714293	5.00000	4.831
28 Tetrachlorvinphos (Stirophos)	20.527	20.532	(0.758)	1539127	5.00000	5.130 (A)
29 Tokuthion	21.278	21.278	(0.786)	2469788	5.00000	4.930
30 Merphos-B (Merphos Oxone)	21.532	21.536	(0.795)	528766	5.00000	4.945
31 Carbophenothion-methyl	22.252	22.254	(0.822)	1741313	5.00000	4.926
32 Fensulfothion	22.449	22.465	(0.829)	1592051	5.00000	4.772
33 Bolstar / Famphur	23.624	23.627	(0.873)	4156553	10.0000	9.716

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.946	23.947	(0.884)	1965799	5.00000	4.850
\$ 35 Triphenyl phosphate	25.268	25.270	(0.933)	1556913	5.00000	4.832 (A)
36 Phosmet	25.764	25.769	(0.952)	1647305	5.00000	4.889
37 EPN	26.095	26.097	(0.964)	1943280	5.00000	4.660
38 Azinphos-methyl	26.579	26.584	(0.982)	1592084	5.00000	4.962
* 39 TOCP	27.074	27.076	(1.000)	738395	2.00000	
40 Azinphos-ethyl	27.167	27.172	(1.003)	1805786	5.00000	4.706
41 Coumaphos	27.689	27.694	(1.023)	1602651	5.00000	4.946
M 42 Total Demeton				2251954	5.00000	4.778
M 43 Merphos				2243059	5.00000	4.599

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_D.i
 Lab File ID: 003F0301.D
 Lab Smp Id: 8141 L7 GSV82609
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 L7 GSV8260
 Level:
 Sample Type:

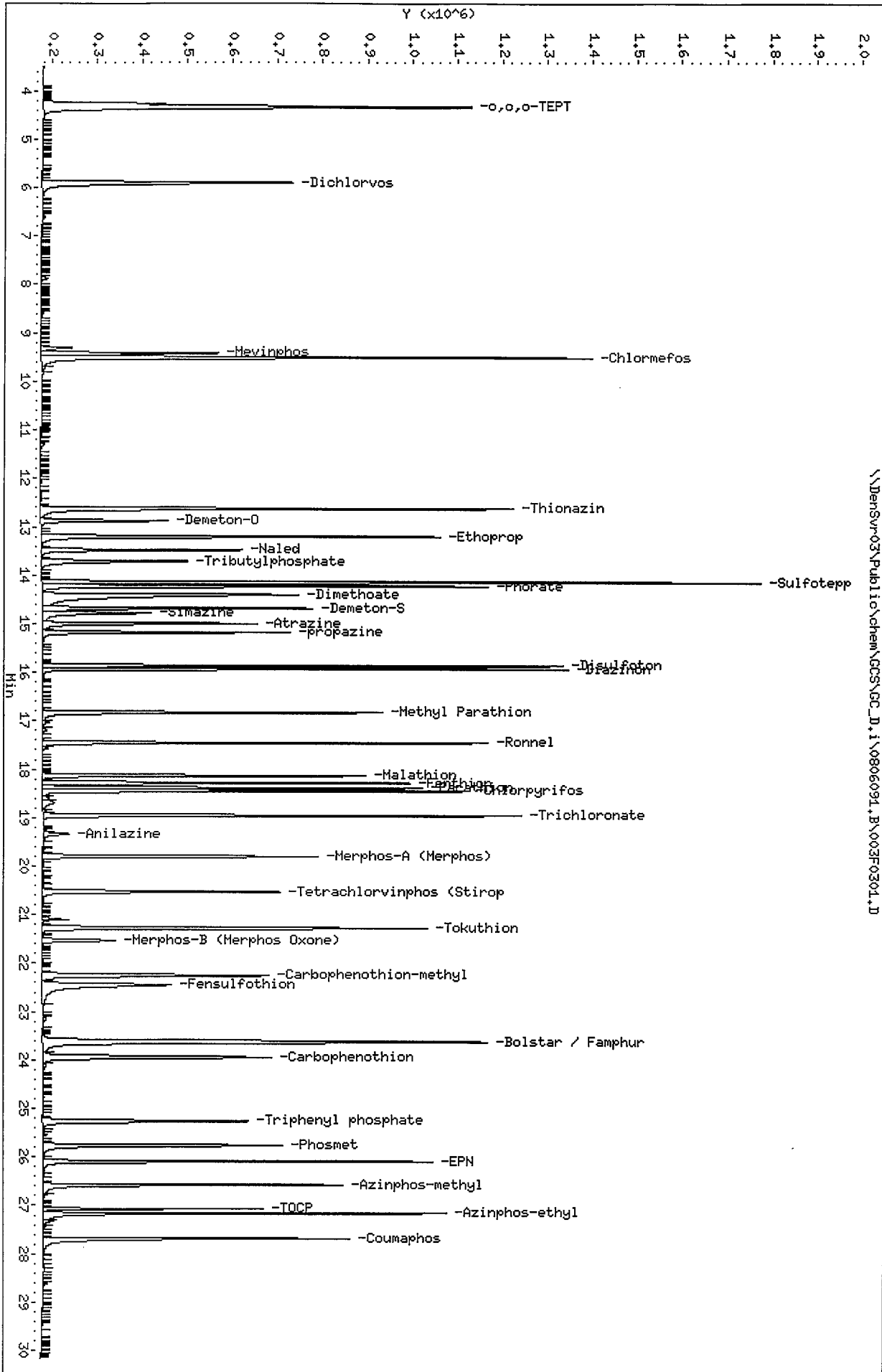
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	1034306	517153	2068612	1068614	3.32
39 TOCP	695324	347662	1390648	738395	6.19

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	13.70	13.20	14.20	13.71	0.08
39 TOCP	27.08	26.58	27.58	27.07	-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.

Data File: \\Densvr03\Public\chem\GC\GC_D_1\0806091.B\003F0301.D
 Date: 06-AUG-2009 14:56
 Client ID: 8141 L7 GSV82609
 Sample Info: 8141 L7 GSV82609
 Column phase: RTX-1MS

Instrument: GC.D.1
 Operator: HPK/TLW
 Column diameter: 0.32



\\Densvr03\Public\chem\GC\GC_D_1\0806091.B\003F0301.D

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 003F0301.D
 Analysis Type: NONE

Injection Date: 06-AUG-2009 14:56
 Lab Sample ID: 8141 L7 GSV82609
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	3.0000	4.3142	43.8	15.0 <-
2 Dichlorvos	3.0000	4.7548	58.5	15.0 <-
3 Mevinphos	3.0000	5.2491	75.0	15.0 <-
4 Chlormefos	3.0000	4.3776	45.9	15.0 <-
5 Thionazin	3.0000	4.6629	55.4	15.0 <-
6 Demeton-O	0.9750	1.4314	46.8	15.0 <-
7 Ethoprop	3.0000	4.4386	48.0	15.0 <-
8 Naled	3.0000	5.2235	74.1	15.0 <-
9 Sulfotepp	3.0000	4.7291	57.6	15.0 <-
10 Phorate	3.0000	4.7224	57.4	15.0 <-
11 Dimethoate	3.0000	4.9039	63.5	15.0 <-
12 Demeton-S	2.0400	3.8555	89.0	15.0 <-
13 Simazine	3.0000	4.5722	52.4	15.0 <-
14 Atrazine	3.0000	4.8477	61.6	15.0 <-
15 propazine	3.0000	4.8465	61.5	15.0 <-
17 Disulfoton	3.0000	4.7214	57.4	15.0 <-
16 Diazinon	3.0000	4.1907	39.7	15.0 <-
18 Methyl Parathion	3.0000	4.7872	59.6	15.0 <-
19 Ronnel	3.0000	4.9720	65.7	15.0 <-
20 Malathion	3.0000	4.8957	63.2	15.0 <-
21 Fenthion	3.0000	4.8025	60.1	15.0 <-
22 Parathion	3.0000	4.7976	59.9	15.0 <-
23 Chlorpyrifos	3.0000	4.8434	61.4	15.0 <-
24 Trichloronate	3.0000	4.9307	64.4	15.0 <-
25 Anilazine	3.0000	4.9899	66.3	15.0 <-
148 Merphos-A (Merphos)	3.0000	4.9039	63.5	999.0
26 Tetrachlorvinphos (Stirophos)	3.0000	4.9673	65.6	15.0 <-
28 Tokuthion	3.0000	4.9299	64.3	15.0 <-
149 Merphos-B (Merphos Oxone)	3.0000	3.0113	0.4	999.0
29 Carbophenothion-methyl	3.0000	4.7224	57.4	15.0 <-
29 Fensulfothion	3.0000	4.8806	62.7	15.0 <-
30 Bolstar / Famphur	6.0000	11.5025	91.7	15.0 <-
32 Carbophenothion	3.0000	4.8378	61.3	15.0 <-
31 Triphenyl phosphate	3.0000	4.8315	61.1	15.0 <-
34 Phosmet	3.0000	6.9503	131.7	15.0 <-
32 EPN	3.0000	4.6600	55.3	15.0 <-
33 Azinphos-methyl	3.0000	4.9247	64.2	15.0 <-
38 Azinphos-ethyl	3.0000	4.8442	61.5	15.0 <-
36 Coumaphos	3.0000	6.0607	102.0	15.0 <-

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\003F0301.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

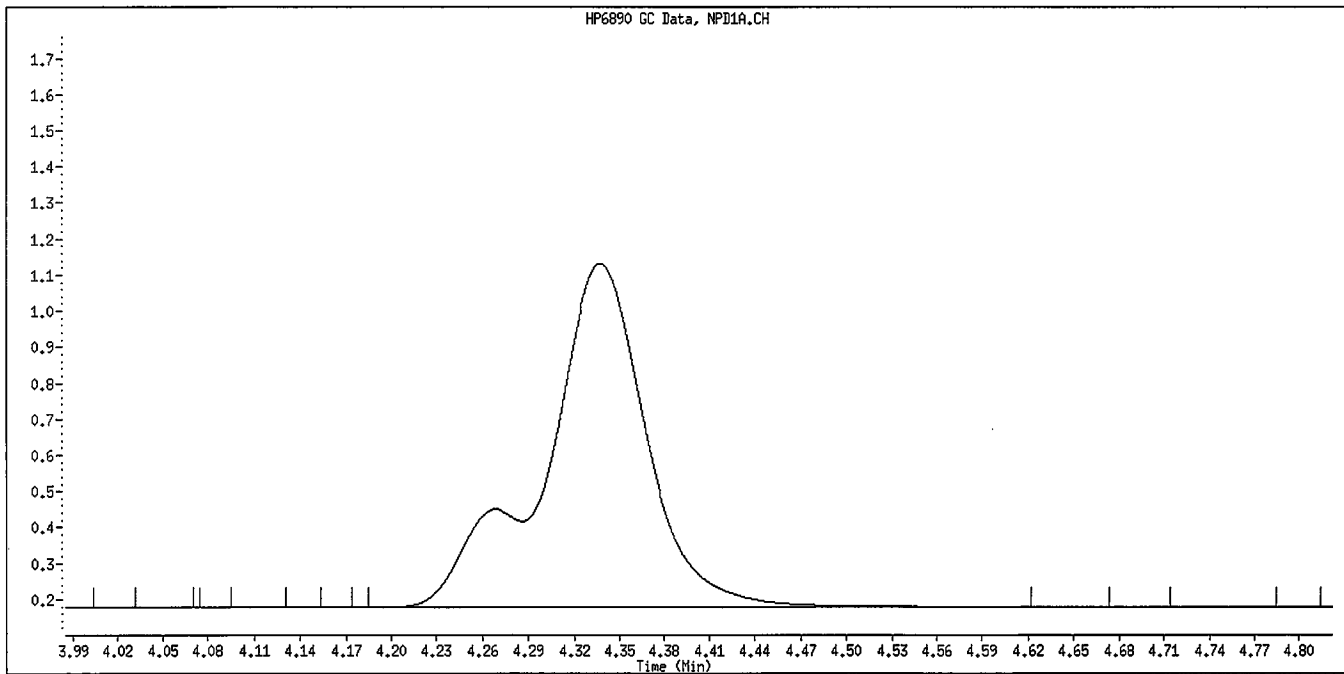
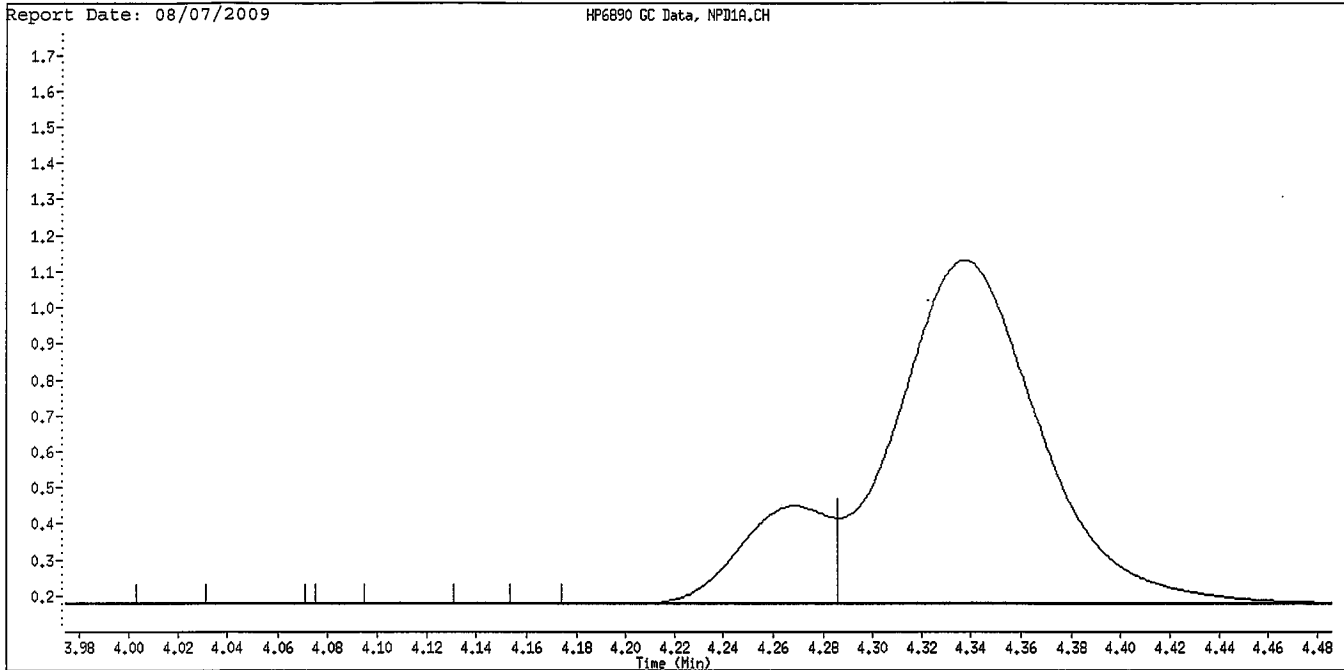
Instrument ID: GC_D.i
Lab File ID: 003F0301.D
Analysis Type: NONE

Injection Date: 06-AUG-2009 14:56
Lab Sample ID: 8141 L7 GSV82609
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	3.0000	5.2869	76.2	15.0
27 Merphos	3.0000	4.5897	53.0	15.0

Average %D = 62.4

Data File Name: 003F0301.D
Inj. Date and Time: 06-AUG-2009 14:56
Instrument ID: GC_D.i
Client ID: 8141 L7 GSV82609
Compound Name: o,o,o-TEPT
CAS #:



Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

HF
8/7/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\004F0401.D
 Lab Smp Id: 8141 L6 GSV87009 Client Smp ID: 8141 L6 GSV87009
 Inj Date : 06-AUG-2009 15:32
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L6 GSV87009
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 14:56 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.265	4.267	(0.311)	3532965	4.00000	4.127 (M)
2 Dichlorvos	5.865	5.865	(0.428)	1660351	4.00000	4.040
3 Mevinphos	9.405	9.407	(0.686)	830977	4.00000	4.028
§ 4 Chlormefos	9.502	9.502	(0.693)	2855746	4.00000	3.793
5 Thionazin	12.623	12.625	(0.921)	2252008	4.00000	3.944
6 Demeton-O	12.876	12.876	(0.939)	581572	1.30000	1.267
7 Ethoprop	13.201	13.205	(0.963)	1955169	4.00000	3.801
8 Naled	13.480	13.482	(0.983)	777472	4.00000	3.902
* 9 Tributylphosphate	13.712	13.714	(1.000)	976680	2.00000	
10 Sulfotepp	14.142	14.143	(1.031)	3054969	4.00000	3.995
11 Phorate	14.227	14.227	(1.038)	1931467	4.00000	3.836
12 Dimethoate	14.402	14.416	(1.050)	1934346	4.00000	3.944
13 Demeton-S	14.677	14.682	(1.070)	1152288	2.72000	2.758
14 Simazine	14.777	14.783	(1.078)	631700	4.00000	4.089
15 Atrazine	14.995	14.997	(1.094)	887166	4.00000	3.911
16 propazine	15.177	15.178	(1.107)	900547	4.00000	4.184
17 Disulfoton	15.864	15.866	(0.586)	1882342	4.00000	3.974
18 Diazinon	15.932	15.934	(0.588)	1969776	4.00000	4.016
19 Methyl Parathion	16.828	16.829	(0.622)	1471875	4.00000	4.004
20 Ronnel	17.454	17.456	(0.645)	1630230	4.00000	4.286
21 Malathion	18.132	18.134	(0.670)	1378757	4.00000	4.155
22 Fenthion	18.282	18.284	(0.675)	1589817	4.00000	4.048
23 Parathion	18.388	18.392	(0.679)	1621434	4.00000	4.009
24 Chlorpyrifos	18.448	18.451	(0.681)	1798423	4.00000	4.024
25 Trichloronate	18.957	18.958	(0.700)	1957701	4.00000	4.140
26 Anilazine	19.340	19.345	(0.714)	153137	4.00000	3.978
27 Merphos-A (Merphos)	19.800	19.804	(0.731)	1320113	4.00000	4.158
28 Tetrachlorvinphos (Stirophos)	20.527	20.532	(0.758)	1111793	4.00000	4.146
29 Tokuthion	21.277	21.278	(0.786)	1847909	4.00000	4.109
30 Merphos-B (Merphos Oxone)	21.532	21.536	(0.795)	422425	4.00000	4.026
31 Carbophenothion-methyl	22.252	22.254	(0.822)	1285762	4.00000	4.070
32 Fensulfothion	22.458	22.465	(0.829)	1172734	4.00000	3.970
33 Bolstar / Famphur	23.623	23.627	(0.872)	3128382	8.00000	7.996

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.944	23.947	(0.884)	1466904	4.00000	4.031
\$ 35 Triphenyl phosphate	25.271	25.270	(0.933)	1197295	4.00000	4.139 (A)
36 Phosmet	25.766	25.769	(0.952)	1218253	4.00000	4.046
37 EPN	26.097	26.097	(0.964)	1497280	4.00000	3.999
38 Azinphos-methyl	26.581	26.584	(0.982)	1158610	4.00000	4.051
* 39 TOCP	27.076	27.076	(1.000)	662886	2.00000	
40 Azinphos-ethyl	27.169	27.172	(1.003)	1356516	4.00000	3.938
41 Coumaphos	27.690	27.694	(1.023)	1188819	4.00000	4.100
M 42 Total Demeton				1733860	4.00000	4.025
M 43 Merphos				1742538	4.00000	3.980

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 D.i
 Lab File ID: 004F0401.D
 Lab Smp Id: 8141 L6 GSV87009
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 L6 GSV8700
 Level:
 Sample Type:

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	1034306	517153	2068612	976680	-5.57
39 TOCP	695324	347662	1390648	662886	-4.67

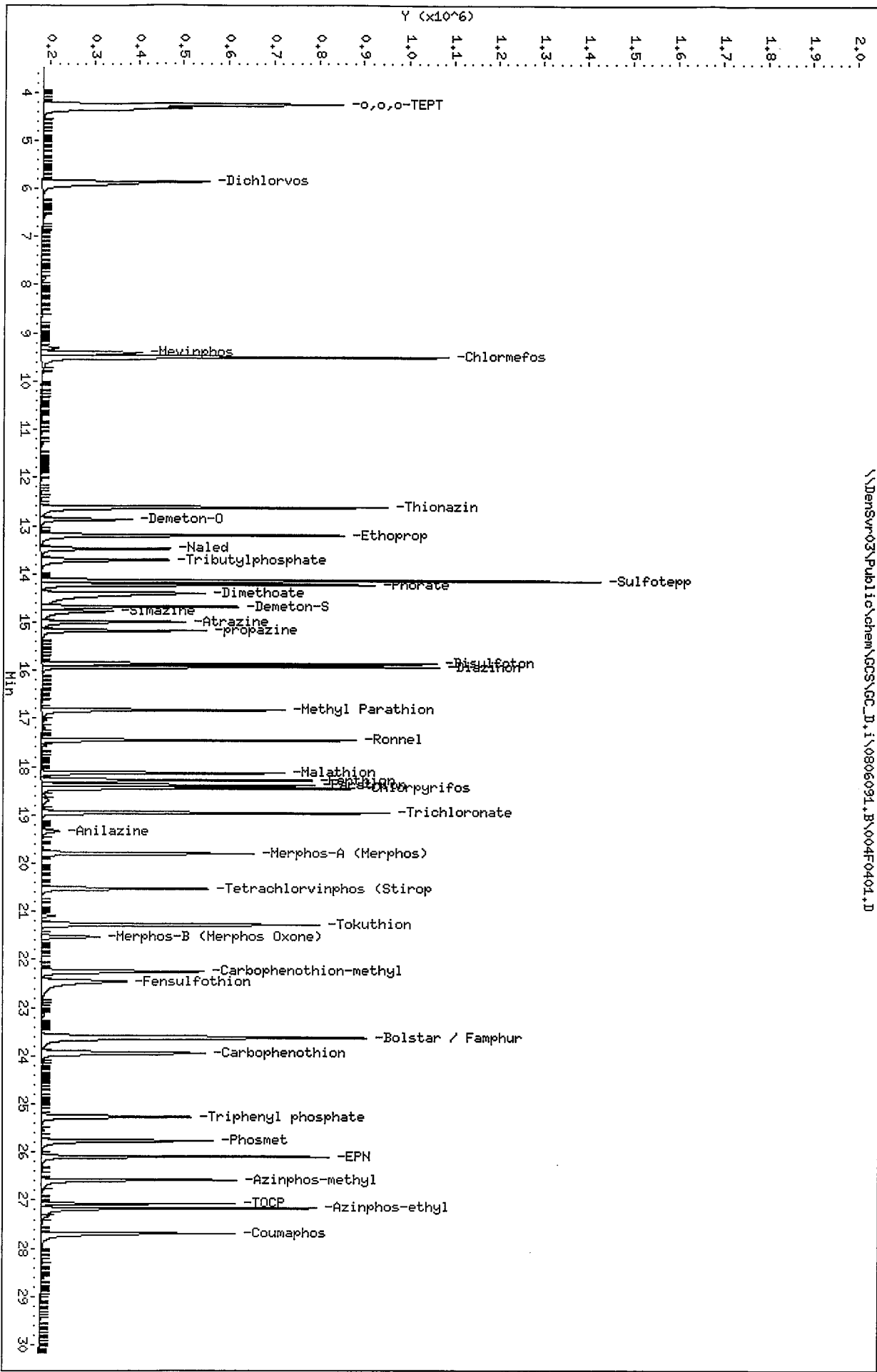
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	13.70	13.20	14.20	13.71	0.10
39 TOCP	27.08	26.58	27.58	27.08	-0.00

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: \\DensSvr-03\Public\chem\GC_SGC_D.i\0806091.B\004F0401.D
 Date: 06-RUG-2009 15:32
 Client ID: 8141 L6 GSV87009
 Sample Info: 8141 L6 GSV87009
 Column phase: RTX-1MS

Instrument: GC_D.i
 Operator: HPK/TLM
 Column diameter: 0.32

\\DensSvr-03\Public\chem\GC_SGC_D.i\0806091.B\004F0401.D



CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

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

Injection Date: 06-AUG-2009 15:32
 Lab Sample ID: 8141 L6 GSV87009
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		%D
1 o,o,o-TEPT	3.0000	3.7272	24.2	15.0 <-
2 Dichlorvos	3.0000	4.0433	34.8	15.0 <-
3 Mevinphos	3.0000	4.1986	40.0	15.0 <-
4 Chlormefos	3.0000	3.7459	24.9	15.0 <-
5 Thionazin	3.0000	3.9478	31.6	15.0 <-
6 Demeton-O	0.9750	1.1973	22.8	15.0 <-
7 Ethoprop	3.0000	3.8052	26.8	15.0 <-
8 Naled	3.0000	3.9829	32.8	15.0 <-
9 Sulfotepp	3.0000	4.0186	34.0	15.0 <-
10 Phorate	3.0000	4.0020	33.4	15.0 <-
11 Dimethoate	3.0000	4.0344	34.5	15.0 <-
12 Demeton-S	2.0400	3.2574	59.7	15.0 <-
13 Simazine	3.0000	3.9165	30.5	15.0 <-
14 Atrazine	3.0000	4.0098	33.7	15.0 <-
15 propazine	3.0000	4.0316	34.4	15.0 <-
17 Disulfoton	3.0000	4.0431	34.8	15.0 <-
16 Diazinon	3.0000	3.6165	20.5	15.0 <-
18 Methyl Parathion	3.0000	4.0079	33.6	15.0 <-
19 Ronnel	3.0000	4.0651	35.5	15.0 <-
20 Malathion	3.0000	4.1529	38.4	15.0 <-
21 Fenthion	3.0000	4.0455	34.9	15.0 <-
22 Parathion	3.0000	4.0375	34.6	15.0 <-
23 Chlorpyrifos	3.0000	4.0299	34.3	15.0 <-
24 Trichloronate	3.0000	4.0755	35.8	15.0 <-
25 Anilazine	3.0000	4.0456	34.9	15.0 <-
148 Merphos-A (Merphos)	3.0000	4.1603	38.7	999.0
26 Tetrachlorvinphos (Stiropfos)	3.0000	4.0360	34.5	15.0 <-
28 Tokuthion	3.0000	4.1080	36.9	15.0 <-
149 Merphos-B (Merphos Oxone)	3.0000	2.6792	10.7	999.0
29 Carbophenothion-methyl	3.0000	3.9176	30.6	15.0 <-
29 Fensulfothion	3.0000	4.0266	34.2	15.0 <-
30 Bolstar / Famphur	6.0000	9.6457	60.8	15.0 <-
32 Carbophenothion	3.0000	4.0246	34.2	15.0 <-
31 Triphenyl phosphate	3.0000	4.1371	37.9	15.0 <-
34 Phosmet	3.0000	5.7287	91.0	15.0 <-
32 EPN	3.0000	4.0029	33.4	15.0 <-
33 Azinphos-methyl	3.0000	4.0338	34.5	15.0 <-
38 Azinphos-ethyl	3.0000	4.0493	35.0	15.0 <-
36 Coumaphos	3.0000	5.0072	66.9	15.0 <-

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\004F0401.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

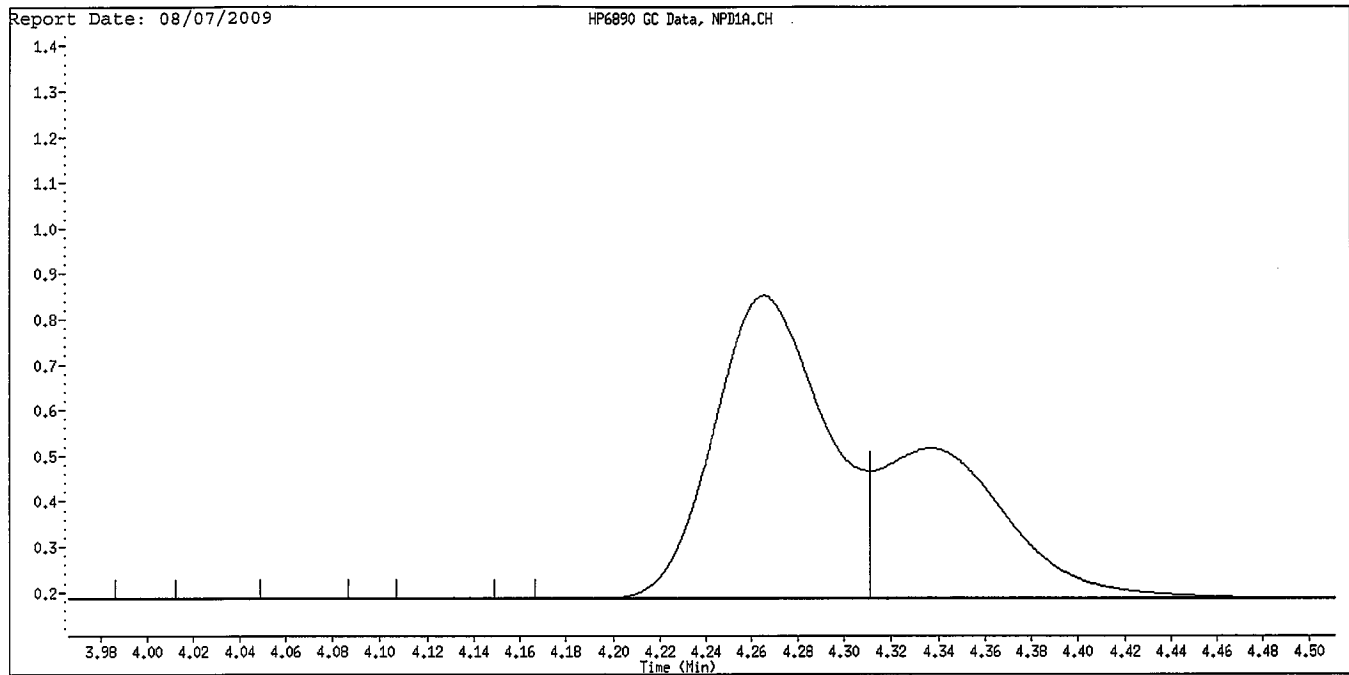
Instrument ID: GC_D.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 06-AUG-2009 15:32
Lab Sample ID: 8141 L6 GSV87009
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

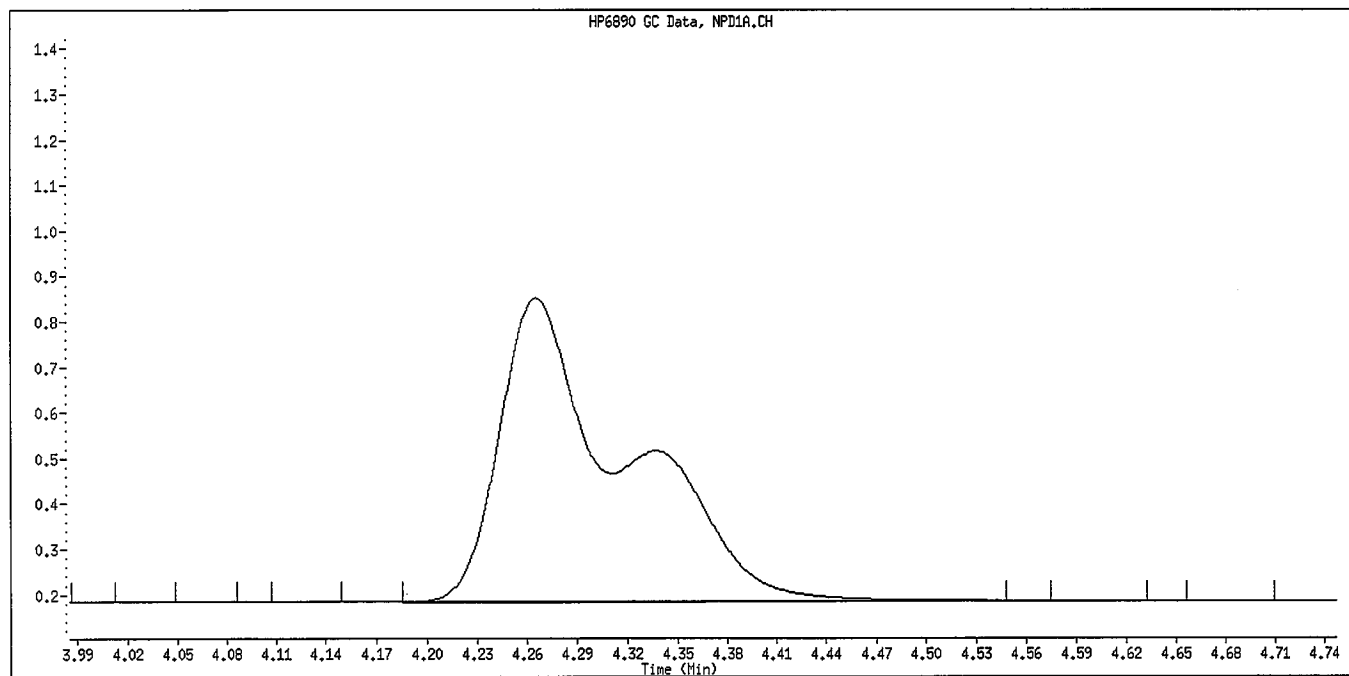
COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	3.0000	4.4546	48.5	15.0<-
27 Merphos	3.0000	3.9712	32.4	15.0<-

Average %D = 36.5

Data File Name: 004F0401.D
Inj. Date and Time: 06-AUG-2009 15:32
Instrument ID: GC_D.i
Client ID: 8141 L6 GSV87009
Compound Name: o,o,o-TEPT
CAS #:



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D
 Lab Smp Id: 8141 L5 GSV87109 Client Smp ID: 8141 L5 GSV87109
 Inj Date : 06-AUG-2009 16:08
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L5 GSV87109
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 15:32 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	4.266	4.267	(0.311)	2678940	3.00000	2.919 (M)
2 Dichlorvos	5.864	5.865	(0.428)	1231344	3.00000	2.932
3 Mevinphos	9.406	9.407	(0.686)	596188	3.00000	2.948
\$ 4 Chlorfepos	9.501	9.502	(0.693)	2173979	3.00000	2.826
5 Thionazin	12.624	12.625	(0.921)	1718412	3.00000	2.963
6 Demeton-O	12.875	12.876	(0.939)	460549	0.97500	0.9780
7 Ethoprop	13.204	13.205	(0.963)	1510941	3.00000	2.896
8 Naled	13.482	13.482	(0.983)	602529	3.00000	3.034
* 9 Tributylphosphate	13.714	13.714	(1.000)	997831	2.00000	
10 Sulfotepp	14.143	14.143	(1.031)	2351109	3.00000	3.010
11 Phorate	14.227	14.227	(1.037)	1492108	3.00000	2.901
12 Dimethoate	14.415	14.416	(1.051)	1446366	3.00000	2.981
13 Demeton-S	14.681	14.682	(1.071)	888508	2.04000	2.085
14 Simazine	14.783	14.783	(1.078)	493520	3.00000	2.956
15 Atrazine	14.997	14.997	(1.094)	667495	3.00000	2.931
16 propazine	15.178	15.178	(1.107)	680031	3.00000	3.092
17 Disulfoton	15.865	15.866	(0.586)	1440699	3.00000	2.977
18 Diazinon	15.934	15.934	(0.588)	1526415	3.00000	2.998
19 Methyl Parathion	16.829	16.829	(0.622)	1132305	3.00000	3.012
20 Ronnel	17.455	17.456	(0.645)	1224497	3.00000	3.129
21 Malathion	18.134	18.134	(0.670)	1068194	3.00000	3.128
22 Fenthion	18.284	18.284	(0.675)	1222175	3.00000	3.040
23 Parathion	18.392	18.392	(0.679)	1232087	3.00000	3.008
24 Chlorpyrifos	18.450	18.451	(0.681)	1387727	3.00000	2.963
25 Trichloronate	18.958	18.958	(0.700)	1482082	3.00000	3.046
26 Anilazine	19.344	19.345	(0.714)	109906	3.00000	2.897
27 Merphos-A (Merphos)	19.804	19.804	(0.731)	975630	3.00000	3.016
28 Tetrachlorvinphos (Stirophos)	20.531	20.532	(0.758)	821547	3.00000	3.003
29 Tokuthion	21.278	21.278	(0.786)	1405740	3.00000	3.038
30 Merphos-B (Merphos Oxone)	21.535	21.536	(0.795)	371990	3.00000	3.077
31 Carbophenothion-methyl	22.254	22.254	(0.822)	972242	3.00000	3.017
32 Fensulfothion	22.464	22.465	(0.830)	876396	3.00000	2.966
33 Bolstar / Famphur	23.626	23.627	(0.873)	2416510	6.00000	6.031

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.946	23.947	(0.884)	1134170	3.00000	3.029
\$ 35 Triphenyl phosphate	25.269	25.270	(0.933)	921466	3.00000	3.096 (A)
36 Phosmet	25.769	25.769	(0.952)	916951	3.00000	2.989
37 EPN	26.097	26.097	(0.964)	1143331	3.00000	2.968
38 Azinphos-methyl	26.584	26.584	(0.982)	862799	3.00000	2.974
* 39 TOCP	27.075	27.076	(1.000)	682079	2.00000	
40 Azinphos-ethyl	27.172	27.172	(1.004)	1051907	3.00000	2.968
41 Coumaphos	27.694	27.694	(1.023)	895805	3.00000	3.022
M 42 Total Demeton				1349057	3.00000	3.063
M 43 Merphos				1347620	3.00000	2.991

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_D.i
 Lab File ID: 005F0501.D
 Lab Smp Id: 8141 L5 GSV87109
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 L5 GSV8710
 Level:
 Sample Type:

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	1034306	517153	2068612	997831	-3.53
39 TOCP	695324	347662	1390648	682079	-1.90

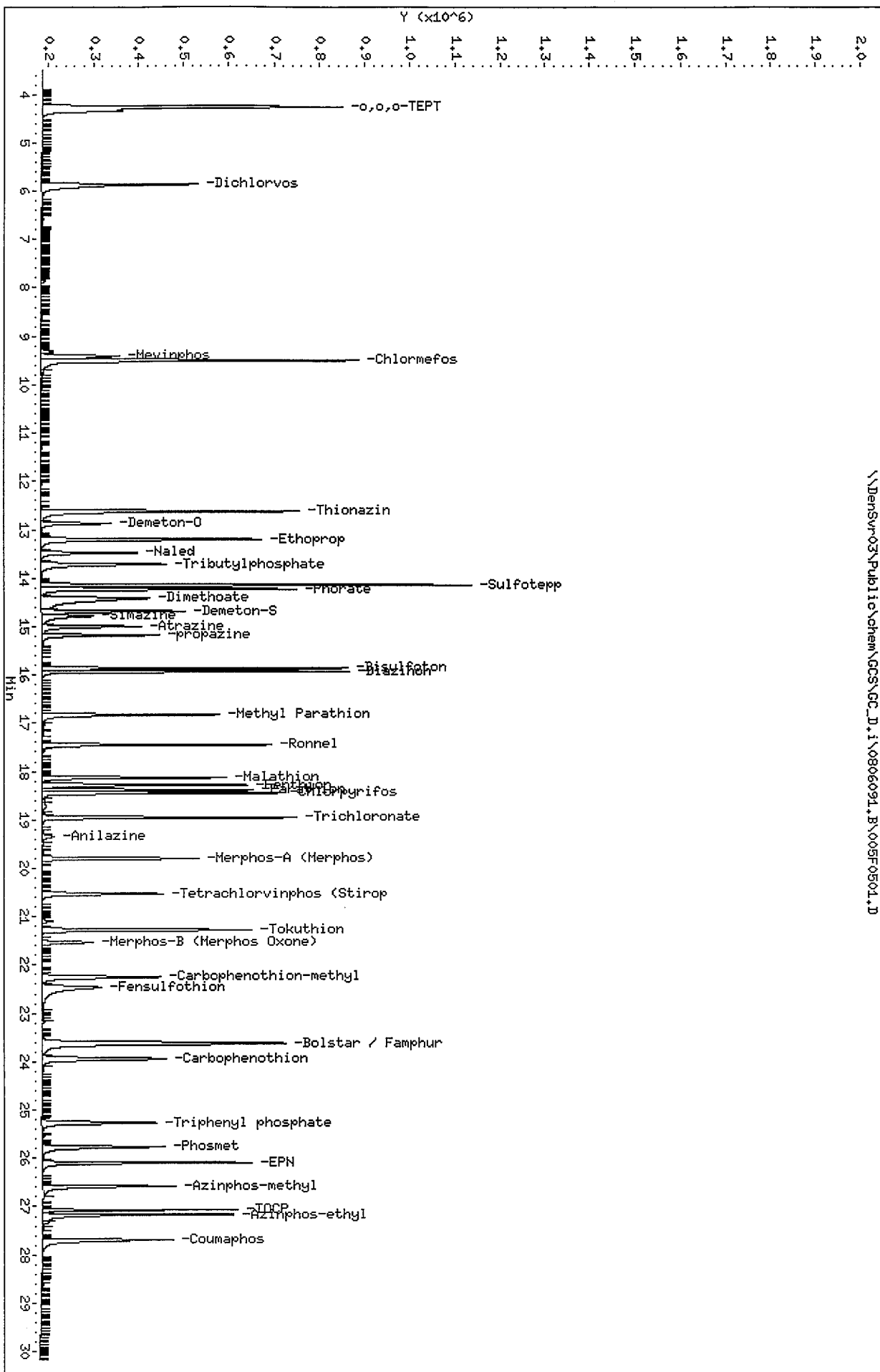
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	13.70	13.20	14.20	13.71	0.11
39 TOCP	27.08	26.58	27.58	27.08	-0.00

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: \\Densv03\Public\chem\GCs\GC_D.1\0806091.B\005F0501.D
 Date: 06-AUG-2009 16:08
 Client ID: 8141 L5 GSV87109
 Sample Info: 8141 L5 GSV87109
 Column phase: RTX-1MS

Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32

\\Densv03\Public\chem\GCs\GC_D.1\0806091.B\005F0501.D



Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D
 Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 005F0501.D
 Analysis Type: NONE

Injection Date: 06-AUG-2009 16:08
 Lab Sample ID: 8141 L5 GSV87109
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		%D
1 o,o,o-TEPT	3.0000	2.7636	7.9	15.0
2 Dichlorvos	3.0000	2.9290	2.4	15.0
3 Mevinphos	3.0000	3.0125	0.4	15.0
4 Chlormefos	3.0000	2.7879	7.1	15.0
5 Thionazin	3.0000	2.9596	1.3	15.0
6 Demeton-O	0.9750	0.9278	4.8	15.0
7 Ethoprop	3.0000	2.8961	3.5	15.0
8 Naled	3.0000	3.0574	1.9	15.0
9 Sulfotepp	3.0000	3.0223	0.7	15.0
10 Phorate	3.0000	2.9926	0.2	15.0
11 Dimethoate	3.0000	3.0085	0.3	15.0
12 Demeton-S	2.0400	2.4547	20.3	15.0 <-
13 Simazine	3.0000	3.0267	0.9	15.0
14 Atrazine	3.0000	2.9854	0.5	15.0
15 propazine	3.0000	2.9986	0.0	15.0
17 Disulfoton	3.0000	3.0245	0.8	15.0
16 Diazinon	3.0000	2.7242	9.2	15.0
18 Methyl Parathion	3.0000	3.0262	0.9	15.0
19 Ronnel	3.0000	2.9794	0.7	15.0
20 Malathion	3.0000	3.1262	4.2	15.0
21 Fenthion	3.0000	3.0366	1.2	15.0
22 Parathion	3.0000	3.0160	0.5	15.0
23 Chlorpyrifos	3.0000	2.9344	2.2	15.0
24 Trichloronate	3.0000	3.0033	0.1	15.0
25 Anilazine	3.0000	3.0359	1.2	15.0
148 Merphos-A (Merphos)	3.0000	2.9498	1.7	999.0
26 Tetrachlorvinphos (Stirophos)	3.0000	2.9549	1.5	15.0
28 Tokuthion	3.0000	3.0365	1.2	15.0
149 Merphos-B (Merphos Oxone)	3.0000	2.2946	23.5	999.0
29 Carbophenothion-methyl	3.0000	2.9308	2.3	15.0
29 Fensulfothion	3.0000	2.9992	0.0	15.0
30 Bolstar / Famphur	6.0000	7.2483	20.8	15.0 <-
32 Carbophenothion	3.0000	3.0304	1.0	15.0
31 Triphenyl phosphate	3.0000	3.0967	3.2	15.0
34 Phosmet	3.0000	4.1916	39.7	15.0 <-
32 EPN	3.0000	2.9730	0.9	15.0
33 Azinphos-methyl	3.0000	2.9802	0.7	15.0
38 Azinphos-ethyl	3.0000	3.0463	1.5	15.0
36 Coumaphos	3.0000	3.6741	22.5	15.0 <-

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\005F0501.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

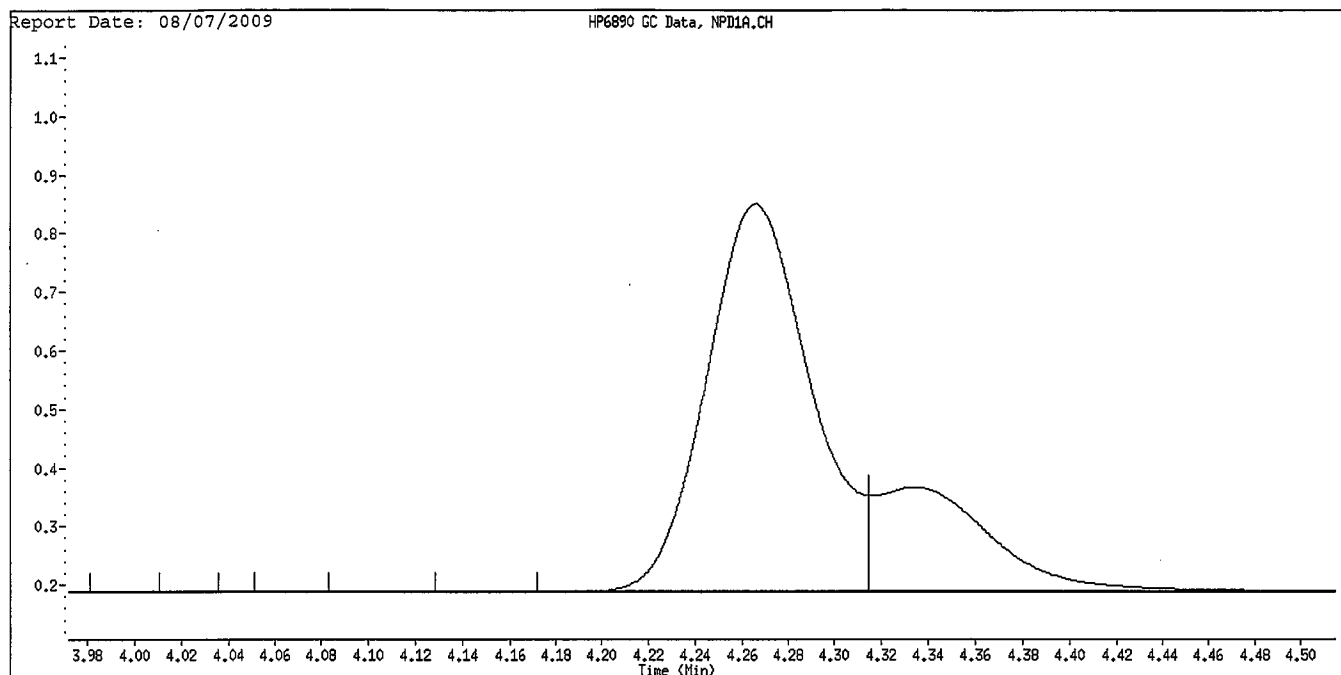
Instrument ID: GC_D.i
Lab File ID: 005F0501.D
Analysis Type: NONE

Injection Date: 06-AUG-2009 16:08
Lab Sample ID: 8141 L5 GSV87109
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

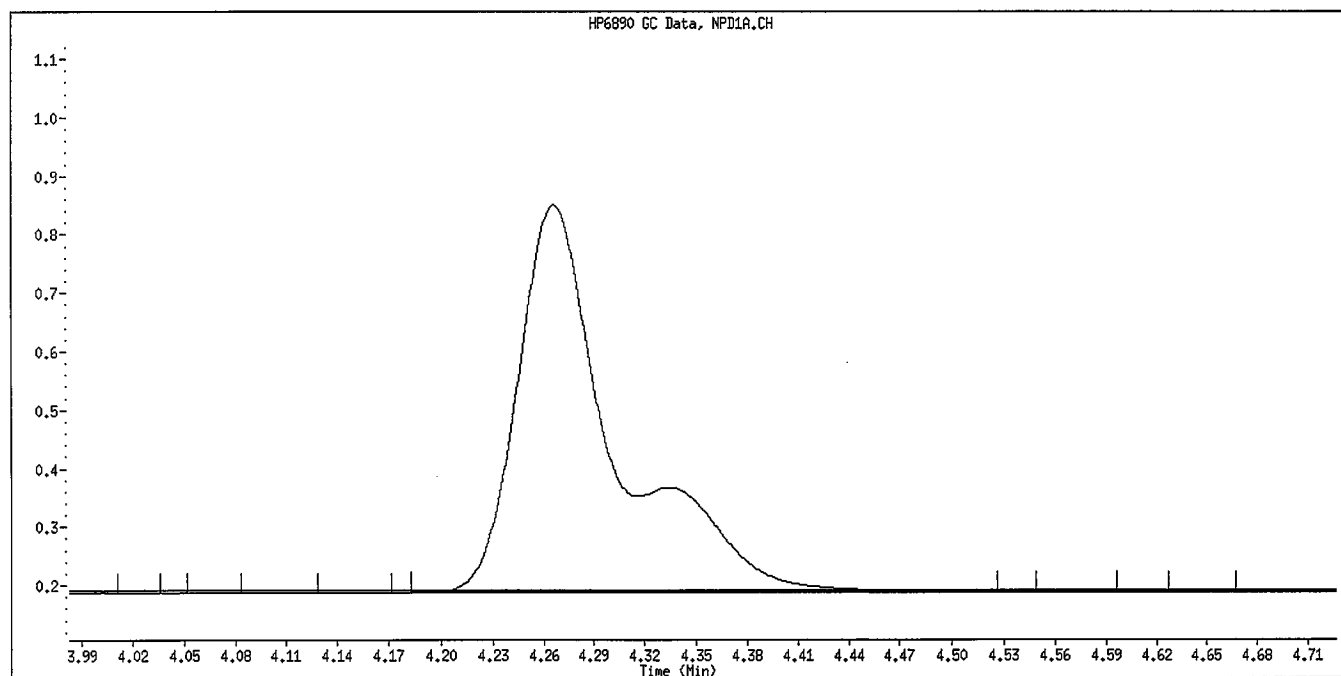
COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	3.0000	3.3824	12.7	15.0
27 Merphos	3.0000	2.9860	0.5	15.0

Average %D = 5.05

Data File Name: 005F0501.D
Inj. Date and Time: 06-AUG-2009 16:08
Instrument ID: GC_D.i
Client ID: 8141 L5 GSV87109
Compound Name: o,o,o-TEPT
CAS #:



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature/initials

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\006F0601.D
 Lab Smp Id: 8141 L4 GSV87209 Client Smp ID: 8141 L4 GSV87209
 Inj Date : 06-AUG-2009 16:45
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L4 GSV87209
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 16:08 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	4.266	4.267	(0.311)	1806303	2.00000	2.027 (M)
2 Dichlorvos	5.871	5.865	(0.428)	806939	2.00000	2.062
3 Mevinphos	9.425	9.407	(0.687)	356823	2.00000	2.037
\$ 4 Chlormefos	9.504	9.502	(0.693)	1500556	2.00000	2.093
5 Thionazin	12.627	12.625	(0.920)	1140983	2.00000	2.130
6 Demeton-O	12.879	12.876	(0.939)	301922	0.65000	0.6820
7 Ethoprop	13.210	13.205	(0.963)	1004283	2.00000	2.091
8 Naled	13.485	13.482	(0.983)	361004	2.00000	2.035
* 9 Tributylphosphate	13.719	13.714	(1.000)	930125	2.00000	
10 Sulfotepp	14.145	14.143	(1.031)	1569936	2.00000	2.156
11 Phorate	14.230	14.227	(1.037)	996323	2.00000	2.078
12 Dimethoate	14.429	14.416	(1.052)	877602	2.00000	2.064
13 Demeton-S	14.688	14.682	(1.071)	598857	1.36000	1.512
14 Simazine	14.790	14.783	(1.078)	313833	2.00000	1.928
15 Atrazine	15.002	14.997	(1.094)	417568	2.00000	2.030
16 propazine	15.182	15.178	(1.107)	426561	2.00000	2.081
17 Disulfoton	15.867	15.866	(0.586)	956556	2.00000	2.118
18 Diazinon	15.935	15.934	(0.589)	1016692	2.00000	2.083
19 Methyl Parathion	16.834	16.829	(0.622)	727074	2.00000	2.071
20 Ronnel	17.457	17.456	(0.645)	776395	2.00000	2.100
21 Malathion	18.136	18.134	(0.670)	702019	2.00000	2.177
22 Fenthion	18.286	18.284	(0.675)	790291	2.00000	2.100
23 Parathion	18.393	18.392	(0.679)	780379	2.00000	2.077
24 Chlorpyrifos	18.453	18.451	(0.681)	926482	2.00000	2.031
25 Trichloronate	18.960	18.958	(0.700)	943008	2.00000	2.052
26 Anilazine	19.355	19.345	(0.715)	62364	2.00000	1.901
27 Merphos-A (Merphos)	19.804	19.804	(0.731)	619861	2.00000	2.063
28 Tetrachlorvinphos (Stirophos)	20.534	20.532	(0.758)	510754	2.00000	2.008
29 Tokuthion	21.280	21.278	(0.786)	908087	2.00000	2.078
30 Merphos-B (Merphos Oxone)	21.536	21.536	(0.795)	271041	2.00000	1.998
31 Carbophenothion-methyl	22.260	22.254	(0.822)	618555	2.00000	2.065
32 Fensulfothion	22.489	22.465	(0.831)	563535	2.00000	2.116
33 Bolstar / Famphur	23.631	23.627	(0.873)	1568236	4.00000	4.180

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.954	23.947	(0.885)	730586	2.00000	2.066
\$ 35 Triphenyl phosphate	25.274	25.270	(0.933)	612613	2.00000	2.179 (A)
36 Phosmet	25.779	25.769	(0.952)	595984	2.00000	2.091
37 EPN	26.101	26.097	(0.964)	776730	2.00000	2.135
38 Azinphos-methyl	26.591	26.584	(0.982)	545683	2.00000	2.042
* 39 TOCP	27.078	27.076	(1.000)	644188	2.00000	
40 Azinphos-ethyl	27.175	27.172	(1.004)	673342	2.00000	2.011
41 Coumaphos	27.700	27.694	(1.023)	569489	2.00000	2.058
M 42 Total Demeton				900779	2.00000	2.194
M 43 Merphos				890902	2.00000	2.094

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_D.i
 Lab File ID: 006F0601.D
 Lab Smp Id: 8141 L4 GSV87209
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 L4 GSV8720
 Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	1034306	517153	2068612	930125	-10.07
39 TOCP	695324	347662	1390648	644188	-7.35

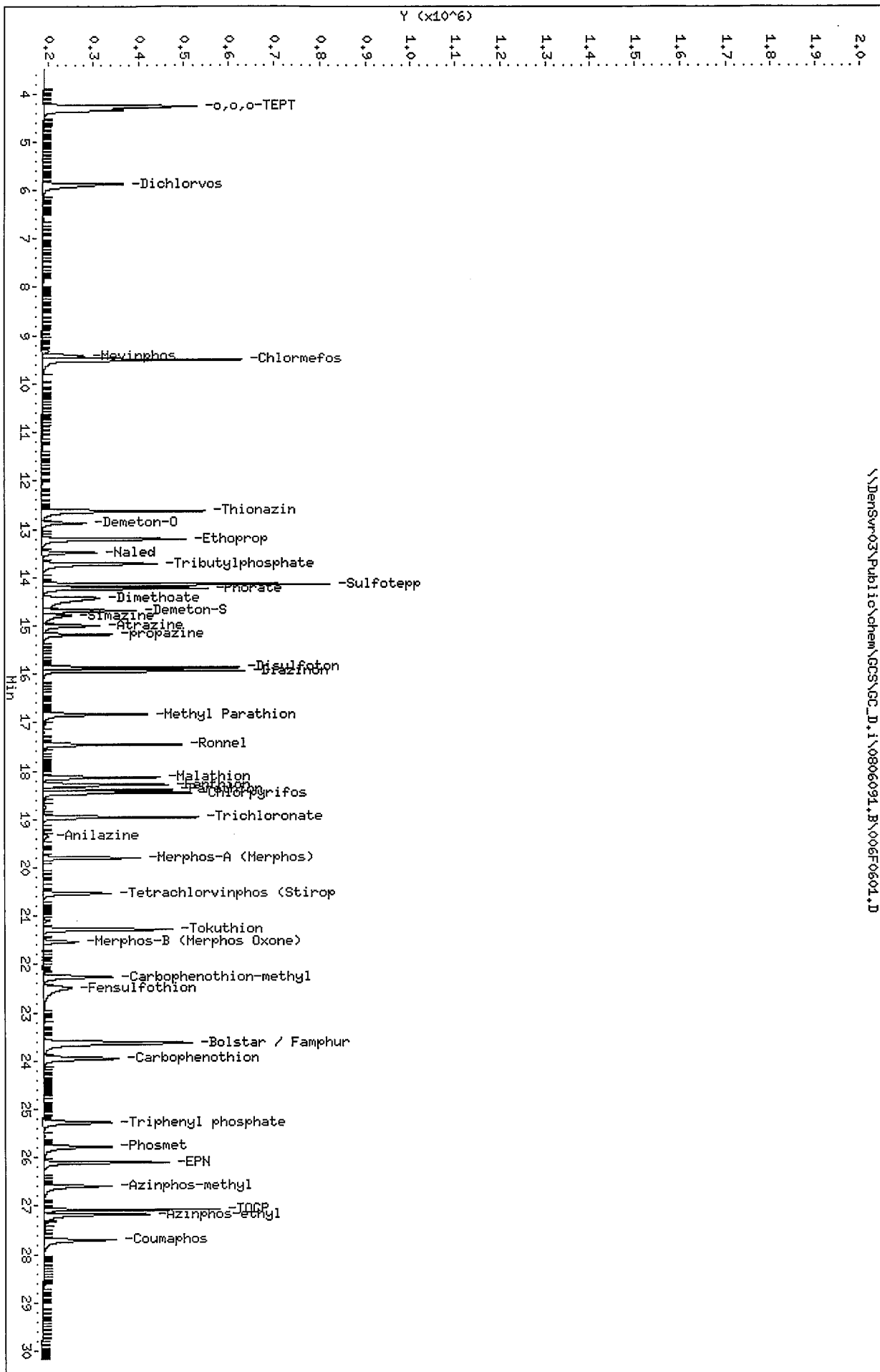
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.70	13.20	14.20	13.72	0.15
39 TOCP	27.08	26.58	27.58	27.08	0.01

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.

Data File: \\Densv03\Public\chem\GCSS\GC_D,\1\0806094,B\006F0601.D
 Date: 06-AUG-2009 16:45
 Client ID: 8144 L4 GSV87209
 Sample Info: 8144 L4 GSV87209
 Column phase: RTX-1MS

Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32

\\Densv03\Public\chem\GCSS\GC_D,\1\0806094,B\006F0601.D



CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 006F0601.D
 Analysis Type: NONE

Injection Date: 06-AUG-2009 16:45
 Lab Sample ID: 8141 L4 GSV87209
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		%D
1 o,o,o-TEPT	3.0000	1.9938	33.5	15.0 <-
2 Dichlorvos	3.0000	2.0526	31.6	15.0 <-
3 Mevinphos	3.0000	2.0152	32.8	15.0 <-
4 Chlormefos	3.0000	2.0593	31.4	15.0 <-
5 Thionazin	3.0000	2.1200	29.3	15.0 <-
6 Demeton-O	0.9750	0.6516	33.2	15.0 <-
7 Ethoprop	3.0000	2.0852	30.5	15.0 <-
8 Naled	3.0000	2.0194	32.7	15.0 <-
9 Sulfotepp	3.0000	2.1590	28.0	15.0 <-
10 Phorate	3.0000	2.1074	29.8	15.0 <-
11 Dimethoate	3.0000	2.0394	32.0	15.0 <-
12 Demeton-S	2.0400	1.7726	13.1	15.0
13 Simazine	3.0000	2.1187	29.4	15.0 <-
14 Atrazine	3.0000	2.0503	31.7	15.0 <-
15 propazine	3.0000	2.0478	31.7	15.0 <-
17 Disulfoton	3.0000	2.1468	28.4	15.0 <-
16 Diazinon	3.0000	1.9214	36.0	15.0 <-
18 Methyl Parathion	3.0000	2.0960	30.1	15.0 <-
19 Ronnel	3.0000	2.0156	32.8	15.0 <-
20 Malathion	3.0000	2.1763	27.5	15.0 <-
21 Fenthion	3.0000	2.0998	30.0	15.0 <-
22 Parathion	3.0000	2.0692	31.0	15.0 <-
23 Chlorpyrifos	3.0000	1.9760	34.1	15.0 <-
24 Trichloronate	3.0000	2.0310	32.3	15.0 <-
25 Anilazine	3.0000	2.0249	32.5	15.0 <-
148 Merphos-A (Merphos)	3.0000	1.9887	33.7	999.0
26 Tetrachlorvinphos (Stiropfos)	3.0000	2.0099	33.0	15.0 <-
28 Tokuthion	3.0000	2.0766	30.8	15.0 <-
149 Merphos-B (Merphos Oxone)	3.0000	1.7700	41.0	999.0
29 Carbophenothion-methyl	3.0000	2.0367	32.1	15.0 <-
29 Fensulfothion	3.0000	2.1116	29.6	15.0 <-
30 Bolstar / Famphur	6.0000	4.9812	17.0	15.0 <-
32 Carbophenothion	3.0000	2.0681	31.1	15.0 <-
31 Triphenyl phosphate	3.0000	2.1787	27.4	15.0 <-
34 Phosmet	3.0000	2.8772	4.1	15.0
32 EPN	3.0000	2.1359	28.8	15.0 <-
33 Azinphos-methyl	3.0000	2.0652	31.2	15.0 <-
38 Azinphos-ethyl	3.0000	2.0564	31.5	15.0 <-
36 Coumaphos	3.0000	2.4739	17.5	15.0 <-

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\006F0601.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

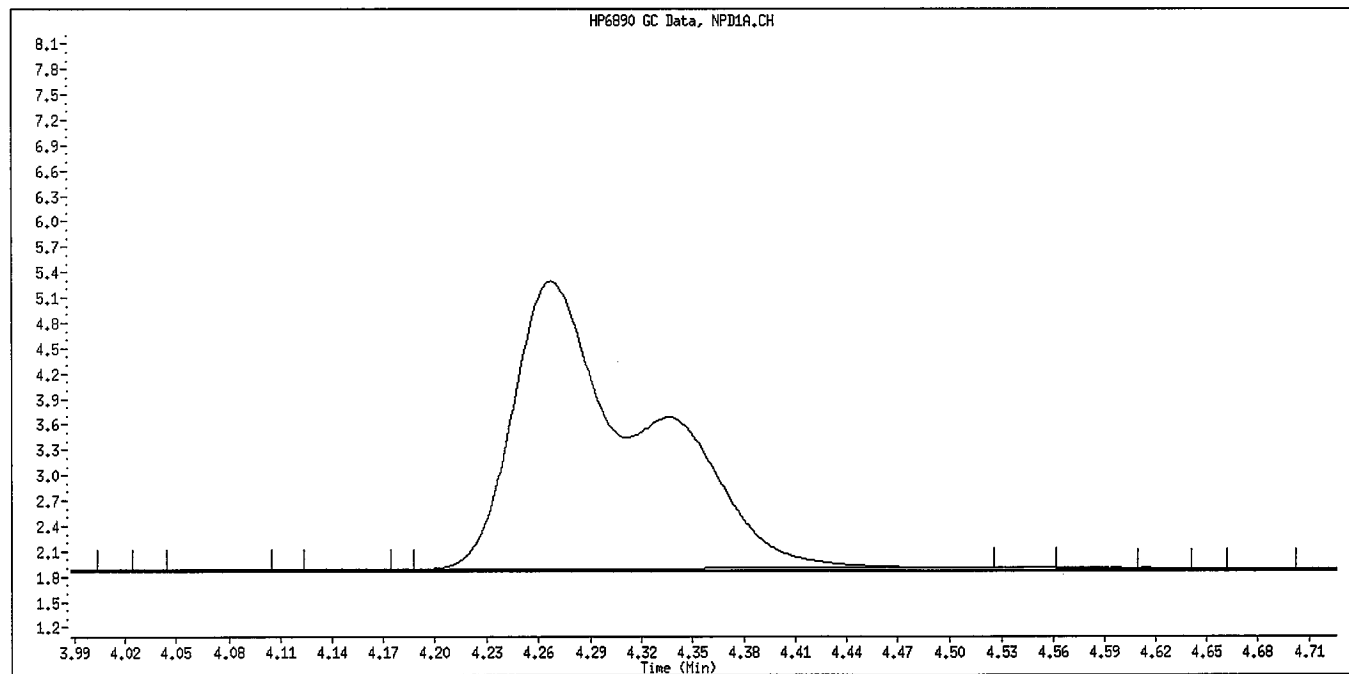
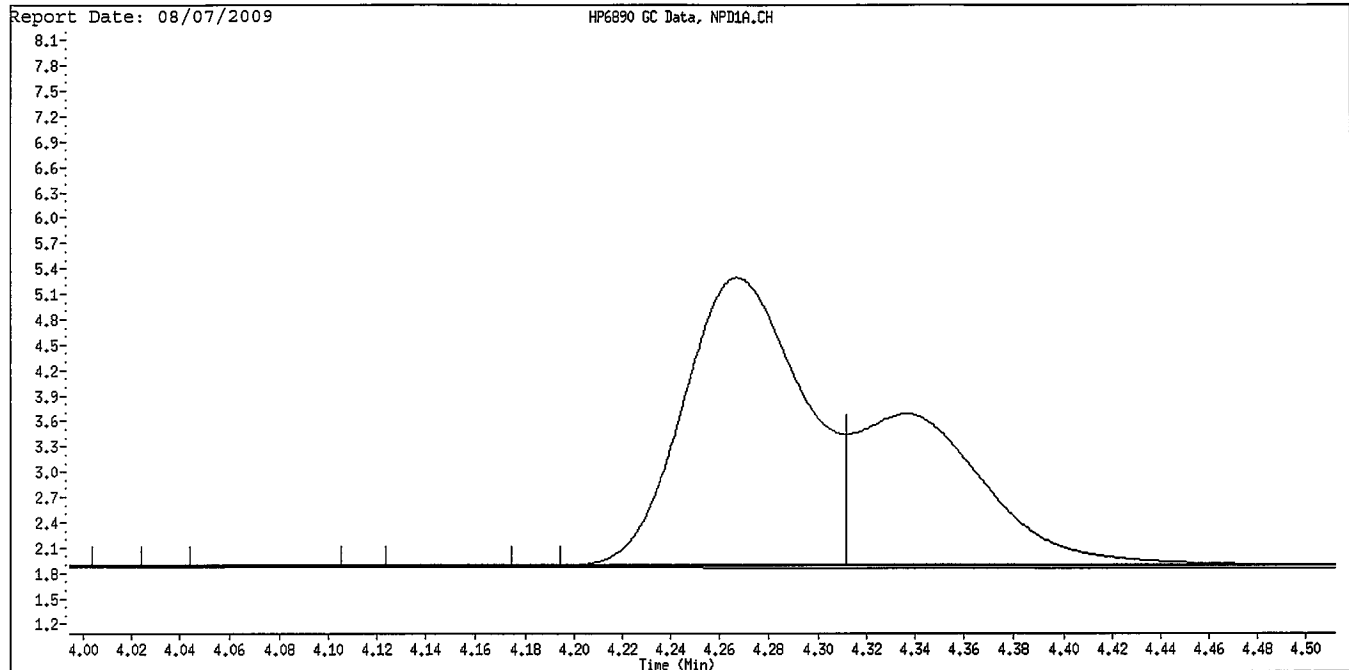
Instrument ID: GC_D.i
Lab File ID: 006F0601.D
Analysis Type: NONE

Injection Date: 06-AUG-2009 16:45
Lab Sample ID: 8141 L4 GSV87209
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	3.0000	2.4243	19.2	15.0
27 Merphos	3.0000	2.0898	30.3	15.0

Average %D = 29.4

Data File Name: 006F0601.D
Inj. Date and Time: 06-AUG-2009 16:45
Instrument ID: GC_D.i
Client ID: 8141 L4 GSV87209
Compound Name: o,o,o-TEPT
CAS #:



Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\007F0701.D
 Lab Smp Id: 8141 L3 GSV87309 Client Smp ID: 8141 L3 GSV87309
 Inj Date : 06-AUG-2009 17:21
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L3 GSV87309
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 16:45 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.266	4.267	(0.311)	908197	1.00000	0.9830 (M)
2 Dichlorvos	5.871	5.865	(0.428)	383146	1.00000	0.9976
3 Mevinphos	9.426	9.407	(0.687)	111446	1.00000	0.9222
\$ 4 Chlormefos	9.501	9.502	(0.692)	746730	1.00000	1.062
5 Thionazin	12.631	12.625	(0.920)	544011	1.00000	1.070
6 Demeton-O	12.879	12.876	(0.938)	157798	0.32500	0.3542
7 Ethoprop	13.218	13.205	(0.963)	491981	1.00000	1.088
8 Naled	13.491	13.482	(0.983)	162318	1.00000	1.037
* 9 Tributylphosphate	13.726	13.714	(1.000)	912600	2.00000	
10 Sulfotepp	14.145	14.143	(1.030)	756152	1.00000	1.058
11 Phorate	14.230	14.227	(1.037)	520383	1.00000	1.106
12 Dimethoate	14.479	14.416	(1.055)	356039	1.00000	1.061
13 Demeton-S	14.703	14.682	(1.071)	285098	0.68000	0.7421
14 Simazine	14.806	14.783	(1.079)	174622	1.00000	1.104
15 Atrazine	15.012	14.997	(1.094)	206785	1.00000	1.120
16 propazine	15.190	15.178	(1.107)	215077	1.00000	1.069
17 Disulfoton	15.870	15.866	(0.586)	445811	1.00000	1.059
18 Diazinon	15.940	15.934	(0.589)	519628	1.00000	1.045
19 Methyl Parathion	16.843	16.829	(0.622)	334656	1.00000	1.019
20 Ronnel	17.463	17.456	(0.645)	356993	1.00000	0.9943
21 Malathion	18.142	18.134	(0.670)	337515	1.00000	1.077
22 Fenthion	18.292	18.284	(0.675)	363139	1.00000	1.025
23 Parathion	18.402	18.392	(0.680)	333400	1.00000	1.015
24 Chlorpyrifos	18.453	18.451	(0.681)	506108	1.00000	1.046
25 Trichloronate	18.963	18.958	(0.700)	440136	1.00000	0.9860
26 Anilazine	19.375	19.345	(0.715)	23197	1.00000	0.9765
27 Merphos-A (Merphos)	19.806	19.804	(0.731)	274971	1.00000	0.9986
28 Tetrachlorvinphos (Stirophos)	20.544	20.532	(0.759)	229899	1.00000	0.9789
29 Tokuthion	21.287	21.278	(0.786)	431780	1.00000	1.017
30 Merphos-B (Merphos Oxone)	21.546	21.536	(0.796)	159629	1.00000	0.9349
31 Carbophenothion-methyl	22.274	22.254	(0.823)	280480	1.00000	1.017
32 Fensulfothion	22.535	22.465	(0.832)	214899	1.00000	1.015
33 Bolstar / Famphur	23.638	23.627	(0.873)	741469	2.00000	2.093

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.958	23.947	(0.885)	360929	1.00000	1.051
\$ 35 Triphenyl phosphate	25.290	25.270	(0.934)	294744	1.00000	1.079
36 Phosmet	25.796	25.769	(0.953)	268843	1.00000	1.029
37 EPN	26.110	26.097	(0.964)	382286	1.00000	1.082
38 Azinphos-methyl	26.602	26.584	(0.982)	233826	1.00000	0.9852
* 39 TOCP	27.080	27.076	(1.000)	625742	2.00000	
40 Azinphos-ethyl	27.185	27.172	(1.004)	334585	1.00000	1.029
41 Coumaphos	27.712	27.694	(1.023)	261325	1.00000	1.011
M 42 Total Demeton				442896	1.00000	1.096
M 43 Merphos				434600	1.00000	1.052

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC D.i
 Lab File ID: 007F0701.D
 Lab Smp Id: 8141 L3 GSV87309
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 L3 GSV8730
 Level:
 Sample Type:

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	1034306	517153	2068612	912600	-11.77
39 TOCP	695324	347662	1390648	625742	-10.01

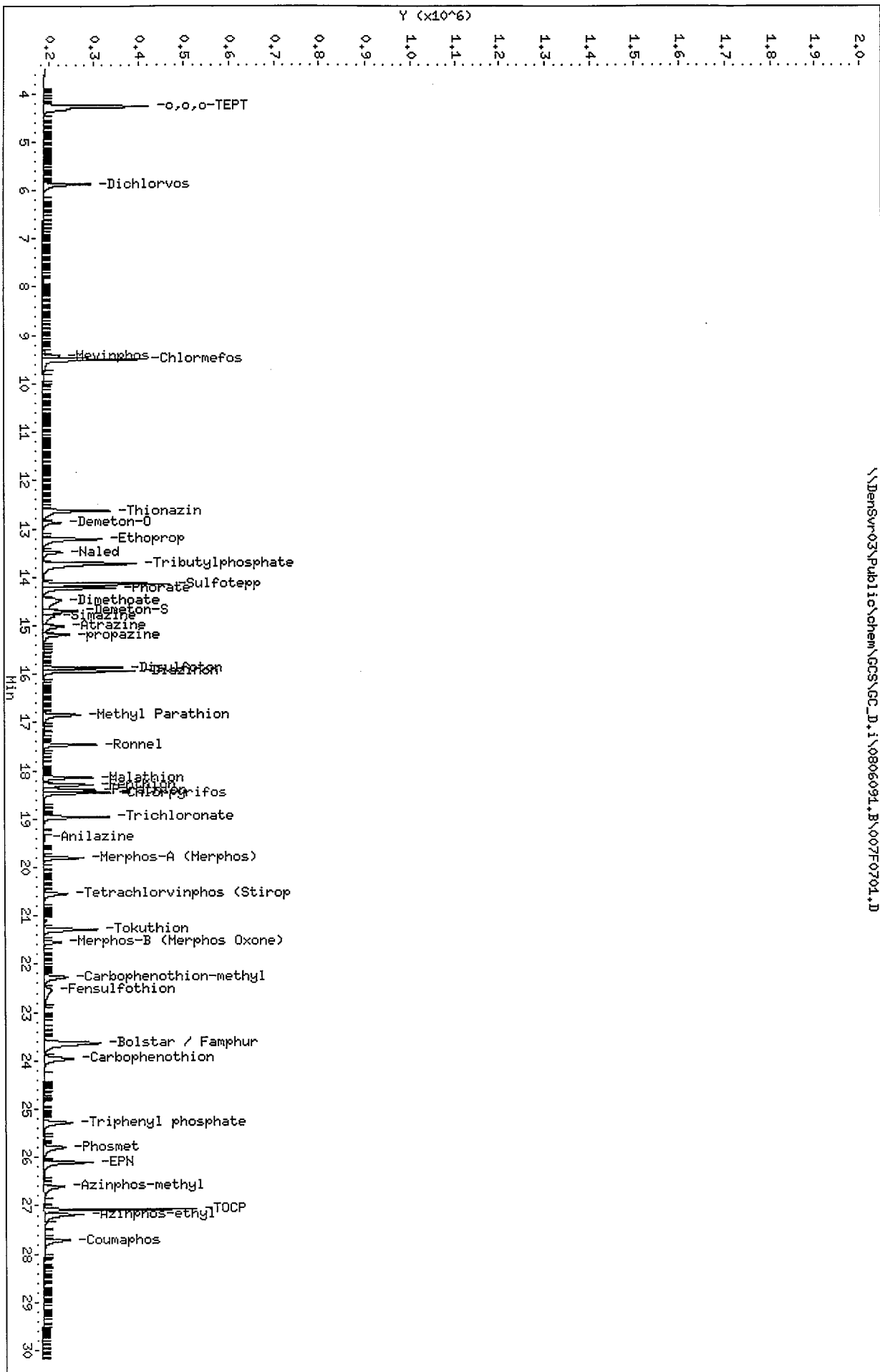
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
9 Tributylphosphate	13.70	13.20	14.20	13.73	0.20
39 TOCP	27.08	26.58	27.58	27.08	0.01

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.

Data File: \\Densyr03\Public\chem\SCS\GC_D,\1\0806091,B\007F0701.D
 Date: 06-AUG-2009 17:21
 Client ID: 8141 L3 GSV87309
 Sample Info: 8141 L3 GSV87309
 Column phase: RTX-1HS

Instrument: GC.D.1
 Operator: HPK/TLM
 Column diameter: 0.32

\\Densyr03\Public\chem\SCS\GC_D,\1\0806091,B\007F0701.D



CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 007F0701.D
 Analysis Type: NONE

Injection Date: 06-AUG-2009 17:21
 Lab Sample ID: 8141 L3 GSV87309
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	3.0000	1.0210	66.0	15.0 <-
2 Dichlorvos	3.0000	0.9935	66.9	15.0 <-
3 Mevinphos	3.0000	0.8088	73.0	15.0 <-
4 Chlorfepos	3.0000	1.0451	65.2	15.0 <-
5 Thionazin	3.0000	1.0649	64.5	15.0 <-
6 Demeton-O	0.9750	0.3464	64.5	15.0 <-
7 Ethoprop	3.0000	1.0846	63.8	15.0 <-
8 Naled	3.0000	1.0092	66.4	15.0 <-
9 Sulfotepp	3.0000	1.0593	64.7	15.0 <-
10 Phorate	3.0000	1.0691	64.4	15.0 <-
11 Dimethoate	3.0000	0.9789	67.4	15.0 <-
12 Demeton-S	2.0400	0.8594	57.9	15.0 <-
13 Simazine	3.0000	1.2619	57.9	15.0 <-
14 Atrazine	3.0000	1.1022	63.3	15.0 <-
15 propazine	3.0000	1.0880	63.7	15.0 <-
17 Disulfoton	3.0000	1.0668	64.4	15.0 <-
16 Diazinon	3.0000	1.0123	66.3	15.0 <-
18 Methyl Parathion	3.0000	1.0577	64.7	15.0 <-
19 Ronnel	3.0000	0.9790	67.4	15.0 <-
20 Malathion	3.0000	1.0769	64.1	15.0 <-
21 Fenthion	3.0000	1.0244	65.9	15.0 <-
22 Parathion	3.0000	0.9861	67.1	15.0 <-
23 Chlorpyrifos	3.0000	0.9598	68.0	15.0 <-
24 Trichloronate	3.0000	0.9814	67.3	15.0 <-
25 Anilazine	3.0000	0.9337	68.9	15.0 <-
148 Merphos-A (Merphos)	3.0000	0.9686	67.7	999.0
26 Tetrachlorvinphos (Stirophos)	3.0000	1.0308	65.6	15.0 <-
28 Tokuthion	3.0000	1.0171	66.1	15.0 <-
149 Merphos-B (Merphos Oxone)	3.0000	1.0771	64.1	999.0
29 Carbophenothion-methyl	3.0000	1.0574	64.8	15.0 <-
29 Fensulfothion	3.0000	0.9968	66.8	15.0 <-
30 Bolstar / Famphur	6.0000	2.4229	59.6	15.0 <-
32 Carbophenothion	3.0000	1.0500	65.0	15.0 <-
31 Triphenyl phosphate	3.0000	1.0793	64.0	15.0 <-
34 Phosmet	3.0000	1.3381	55.4	15.0 <-
32 EPN	3.0000	1.0834	63.9	15.0 <-
33 Azinphos-methyl	3.0000	1.0322	65.6	15.0 <-
38 Azinphos-ethyl	3.0000	1.0390	65.4	15.0 <-
36 Coumaphos	3.0000	1.1700	61.0	15.0 <-

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\007F0701.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

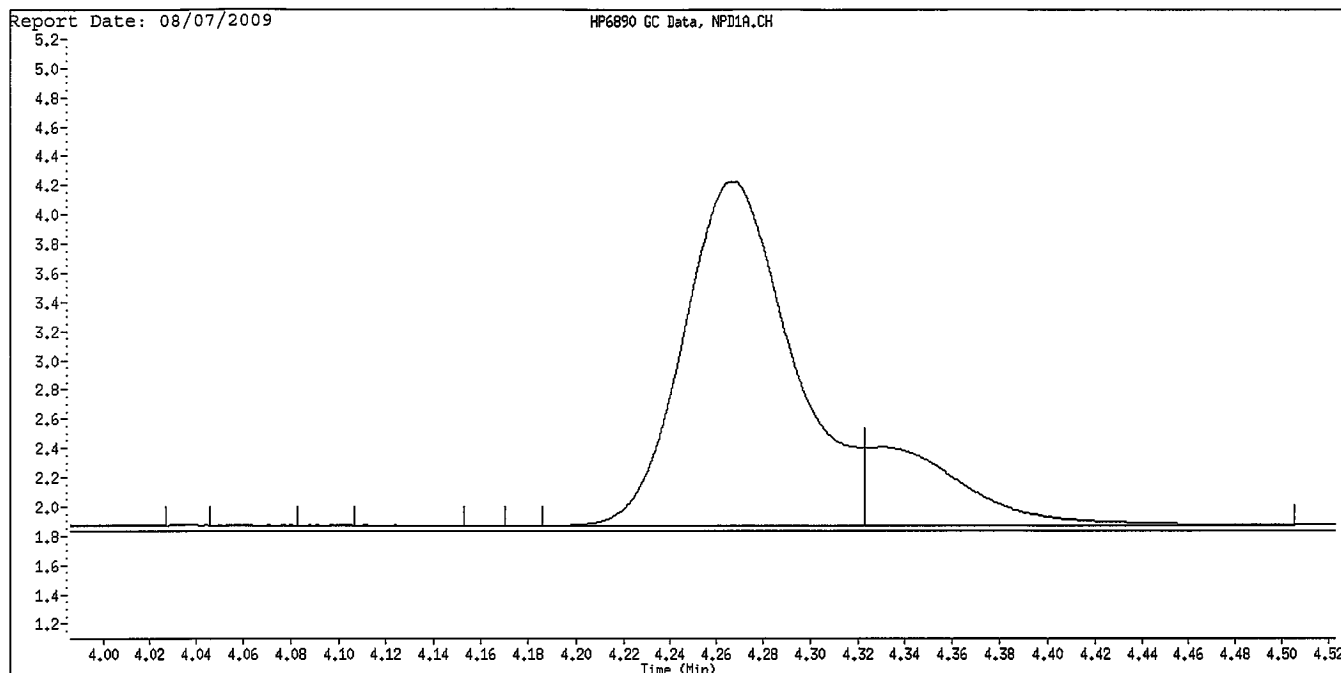
Instrument ID: GC_D.i
Lab File ID: 007F0701.D
Analysis Type: NONE

Injection Date: 06-AUG-2009 17:21
Lab Sample ID: 8141 L3 GSV87309
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

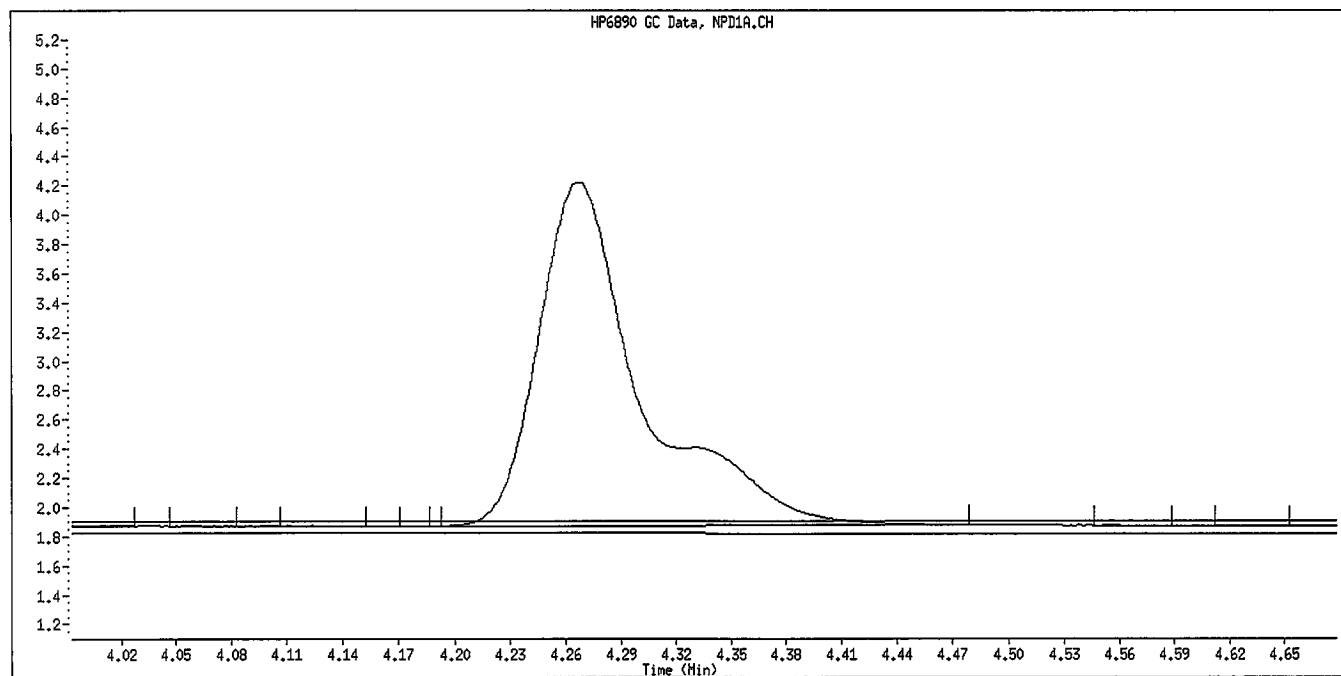
COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	3.0000	1.2058	59.8	15.0<-
27 Merphos	3.0000	1.0508	65.0	15.0<-

Average %D = 64.7

Data File Name: 007F0701.D
Inj. Date and Time: 06-AUG-2009 17:21
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV87309
Compound Name: o,o,o-TEPT
CAS #:



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature: WJ

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\008F0801.D
 Lab Smp Id: 8141 L2 GSV87409 Client Smp ID: 8141 L2 GSV87409
 Inj Date : 06-AUG-2009 17:58
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L2 GSV87409
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 17:21 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.269	4.267	(0.311)	420455	0.50000	0.4867
2 Dichlorvos	5.877	5.865	(0.428)	170191	0.50000	0.4895
3 Mevinphos	9.457	9.407	(0.688)	31592	0.50000	0.5647 (M)
\$ 4 Chlormefos	9.500	9.502	(0.692)	320391	0.50000	0.5030 (M)
5 Thionazin	12.635	12.625	(0.920)	194202	0.50000	0.4628
6 Demeton-O	12.879	12.876	(0.938)	63511	0.16250	0.1466
7 Ethoprop	13.227	13.205	(0.963)	199533	0.50000	0.5361
8 Naled	13.501	13.482	(0.983)	41661	0.50000	0.4198
* 9 Tributylphosphate	13.737	13.714	(1.000)	826235	2.00000	
10 Sulfotepp	14.148	14.143	(1.030)	298517	0.50000	0.4615
11 Phorate	14.231	14.227	(1.036)	197124	0.50000	0.4628 (M)
12 Dimethoate	14.585	14.416	(1.062)	59892	0.50000	0.4848 (M)
13 Demeton-S	14.721	14.682	(1.072)	101878	0.34000	0.3027
14 Simazine	14.825	14.783	(1.079)	48256	0.50000	0.4620
15 Atrazine	15.038	14.997	(1.095)	56963	0.50000	0.4745
16 propazine	15.207	15.178	(1.107)	73519	0.50000	0.4037
17 Disulfoton	15.877	15.866	(0.586)	167271	0.50000	0.4726
18 Diazinon	15.946	15.934	(0.589)	248611	0.50000	0.4801
19 Methyl Parathion	16.864	16.829	(0.623)	137375	0.50000	0.4864
20 Ronnel	17.474	17.456	(0.645)	149779	0.50000	0.4441
21 Malathion	18.154	18.134	(0.670)	134273	0.50000	0.4564
22 Fenthion	18.305	18.284	(0.676)	134570	0.50000	0.4405
23 Parathion	18.434	18.392	(0.681)	117278	0.50000	0.4936 (M)
24 Chlorpyrifos	18.462	18.451	(0.682)	265889	0.50000	0.4890 (M)
25 Trichloronate	18.973	18.958	(0.701)	189950	0.50000	0.4531
26 Anilazine	19.389	19.345	(0.716)	937	0.50000	0.4274
27 Merphos-A (Merphos)	19.814	19.804	(0.732)	102703	0.50000	0.4597
28 Tetrachlorvinphos (Stirophos)	20.572	20.532	(0.760)	86949	0.50000	0.4483
29 Tokuthion	21.301	21.278	(0.787)	180045	0.50000	0.4515
30 Merphos-B (Merphos Oxone)	21.559	21.536	(0.796)	78157	0.50000	0.4227
31 Carbophenothion-methyl	22.303	22.254	(0.824)	99151	0.50000	0.4450
32 Fensulfothion	22.660	22.465	(0.837)	53776	0.50000	0.4927 (M)
33 Bolstar / Famphur	23.664	23.627	(0.874)	282731	1.00000	0.9177

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.989	23.947	(0.886)	152218	0.50000	0.4718
\$ 35 Triphenyl phosphate	25.306	25.270	(0.934)	120436	0.50000	0.4696
36 Phosmet	25.828	25.769	(0.954)	91979	0.50000	0.4436 (M)
37 EPN	26.119	26.097	(0.964)	166326	0.50000	0.5011
38 Azinphos-methyl	26.630	26.584	(0.983)	73949	0.50000	0.4321 (M)
* 39 TOCP	27.083	27.076	(1.000)	587714	2.00000	
40 Azinphos-ethyl	27.199	27.172	(1.004)	136716	0.50000	0.4476
41 Coumaphos	27.732	27.694	(1.024)	95853	0.50000	0.4391
M 42 Total Demeton				165389	0.50000	0.4493
M 43 Merphos				180860	0.50000	0.4659

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC D.i
 Lab File ID: 008F0801.D
 Lab Smp Id: 8141 L2 GSV87409
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 L2 GSV8740
 Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	1034306	517153	2068612	826235	-20.12
39 TOCP	695324	347662	1390648	587714	-15.48

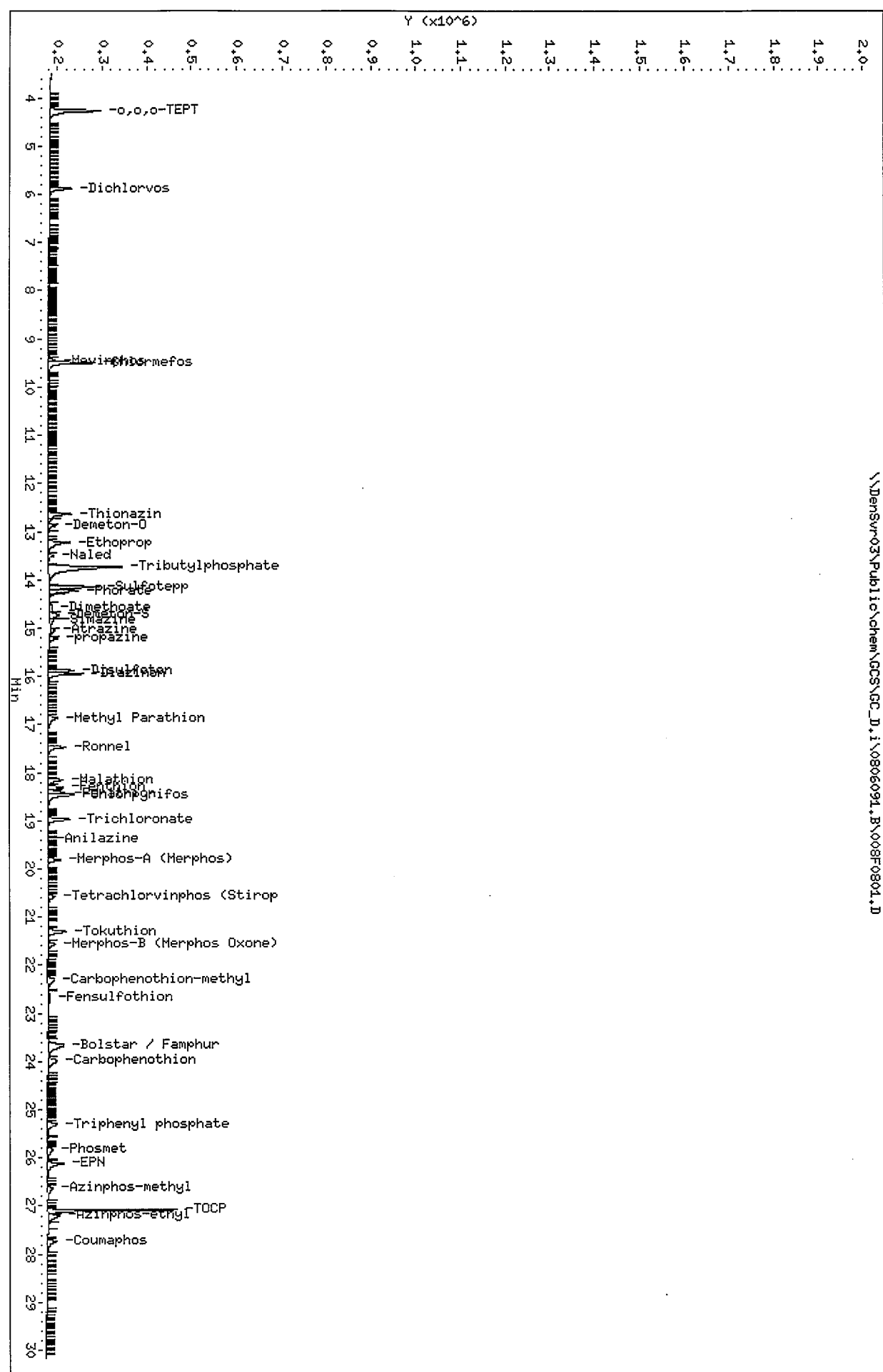
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.70	13.20	14.20	13.74	0.28
39 TOCP	27.08	26.58	27.58	27.08	0.02

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: \\Densv03\Public\chem\GCSS\GC_D,\i\0806094.B\008F0804.D
 Date : 06-AUG-2009 17:58
 Client ID: 8144 L2 GSV87409
 Sample Info: 8144 L2 GSV87409
 Column phase: RTX-1HS

Instrument: GC_D.i
 Operator: HPK/TLM
 Column diameter: 0.32

\\Densv03\Public\chem\GCSS\GC_D,\i\0806094.B\008F0804.D



CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 008F0801.D
 Analysis Type: NONE

Injection Date: 06-AUG-2009 17:58
 Lab Sample ID: 8141 L2 GSV87409
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	3.0000	0.5224	82.6	15.0 <-
2 Dichlorvos	3.0000	0.4895	83.7	15.0 <-
3 Mevinphos	3.0000	0.4029	86.6	15.0 <-
4 Chlormefos	3.0000	0.5031	83.2	15.0 <-
5 Thionazin	3.0000	0.4628	84.6	15.0 <-
6 Demeton-O	0.9750	0.1544	84.2	15.0 <-
7 Ethoprop	3.0000	0.5361	82.1	15.0 <-
8 Naled	3.0000	0.3978	86.7	15.0 <-
9 Sulfotepp	3.0000	0.4615	84.6	15.0 <-
10 Phorate	3.0000	0.3876	87.1	15.0 <-
11 Dimethoate	3.0000	0.4615	84.6	15.0 <-
12 Demeton-S	2.0400	0.3345	83.6	15.0 <-
13 Simazine	3.0000	0.4714	84.3	15.0 <-
14 Atrazine	3.0000	0.4306	85.6	15.0 <-
15 propazine	3.0000	0.4543	84.9	15.0 <-
17 Disulfoton	3.0000	0.4683	84.4	15.0 <-
16 Diazinon	3.0000	0.5148	82.8	15.0 <-
18 Methyl Parathion	3.0000	0.5302	82.3	15.0 <-
19 Ronnel	3.0000	0.4635	84.6	15.0 <-
20 Malathion	3.0000	0.4564	84.8	15.0 <-
21 Fenthion	3.0000	0.4405	85.3	15.0 <-
22 Parathion	3.0000	0.4936	83.5	15.0 <-
23 Chlorpyrifos	3.0000	0.4548	84.8	15.0 <-
24 Trichloronate	3.0000	0.4588	84.7	15.0 <-
25 Anilazine	3.0000	0.3635	87.9	15.0 <-
148 Merphos-A (Merphos)	3.0000	0.4768	84.1	999.0
26 Tetrachlorvinphos (Stirophos)	3.0000	0.5256	82.5	15.0 <-
28 Tokuthion	3.0000	0.4515	84.9	15.0 <-
149 Merphos-B (Merphos Oxone)	3.0000	0.5592	81.4	999.0
29 Carbophenothion-methyl	3.0000	0.5189	82.7	15.0 <-
29 Fensulfothion	3.0000	0.4752	84.2	15.0 <-
30 Bolstar / Famphur	6.0000	0.9830	83.6	15.0 <-
32 Carbophenothion	3.0000	0.4707	84.3	15.0 <-
31 Triphenyl phosphate	3.0000	0.4696	84.3	15.0 <-
34 Phosmet	3.0000	0.4280	85.7	15.0 <-
32 EPN	3.0000	0.5011	83.3	15.0 <-
33 Azinphos-methyl	3.0000	0.4583	84.7	15.0 <-
38 Azinphos-ethyl	3.0000	0.4369	85.4	15.0 <-
36 Coumaphos	3.0000	0.4554	84.8	15.0 <-

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\008F0801.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

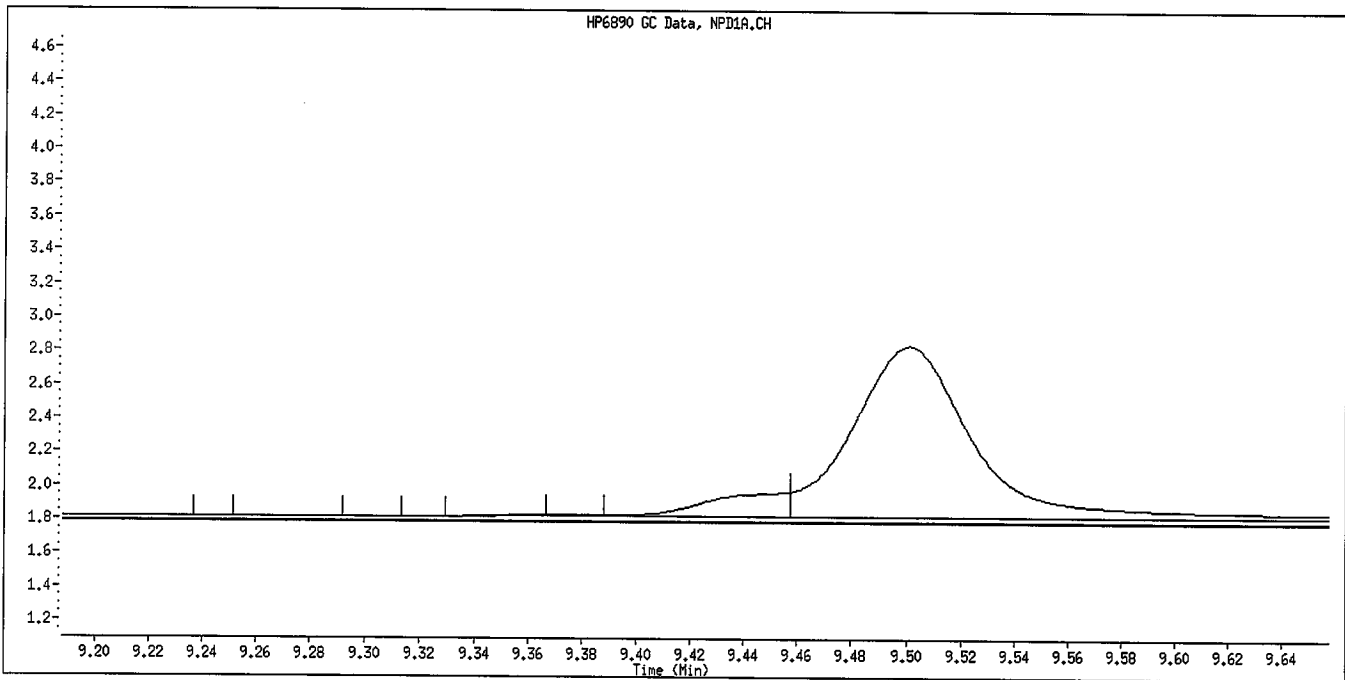
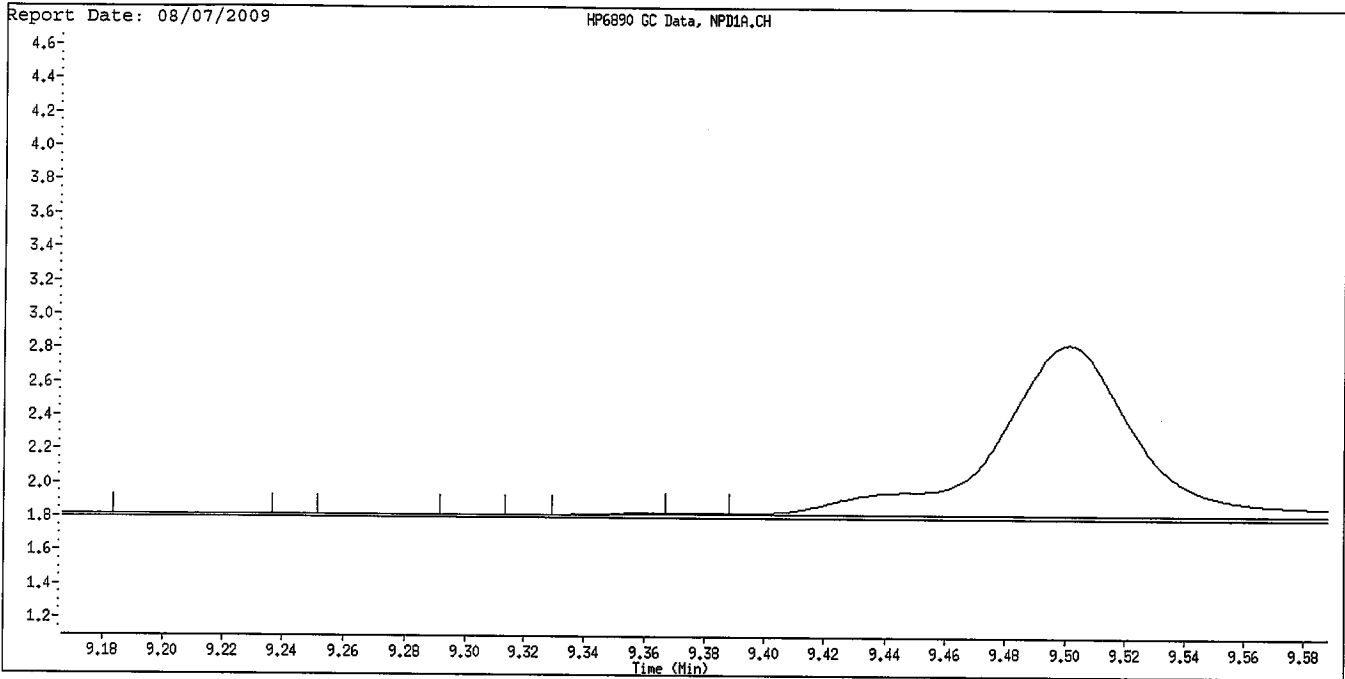
Instrument ID: GC_D.i
Lab File ID: 008F0801.D
Analysis Type: NONE

Injection Date: 06-AUG-2009 17:58
Lab Sample ID: 8141 L2 GSV87409
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	3.0000	0.4889	83.7	15.0
27 Merphos	3.0000	0.4704	84.3	15.0

Average %D = 84.3

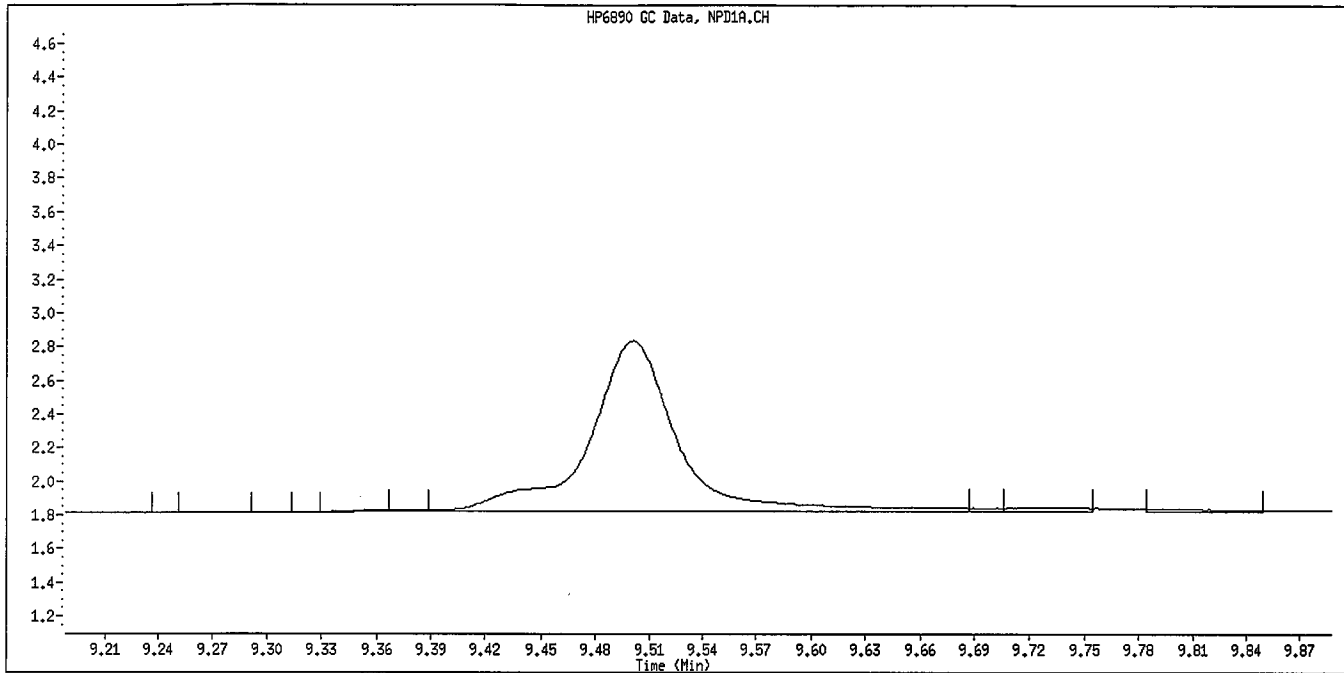
Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Mevinphos
CAS #:



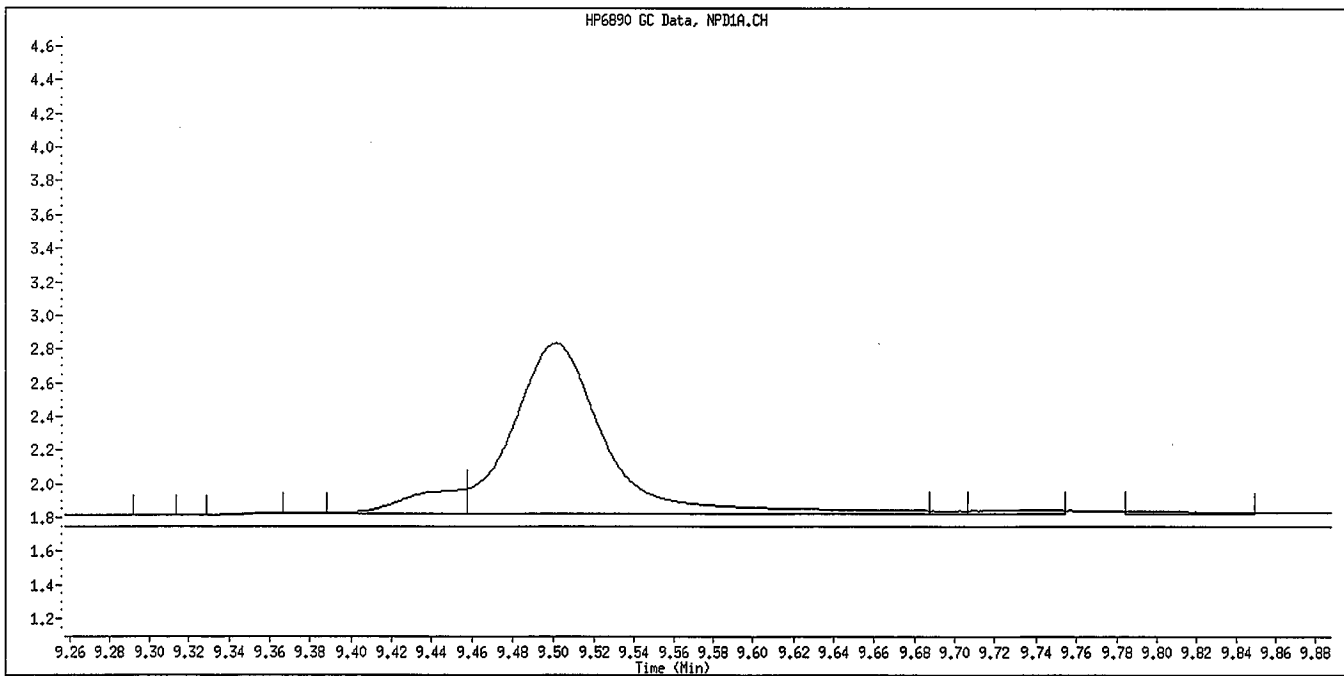
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Chlormefos
CAS #: 24934-91-6
Report Date: 08/07/2009



Original Integration

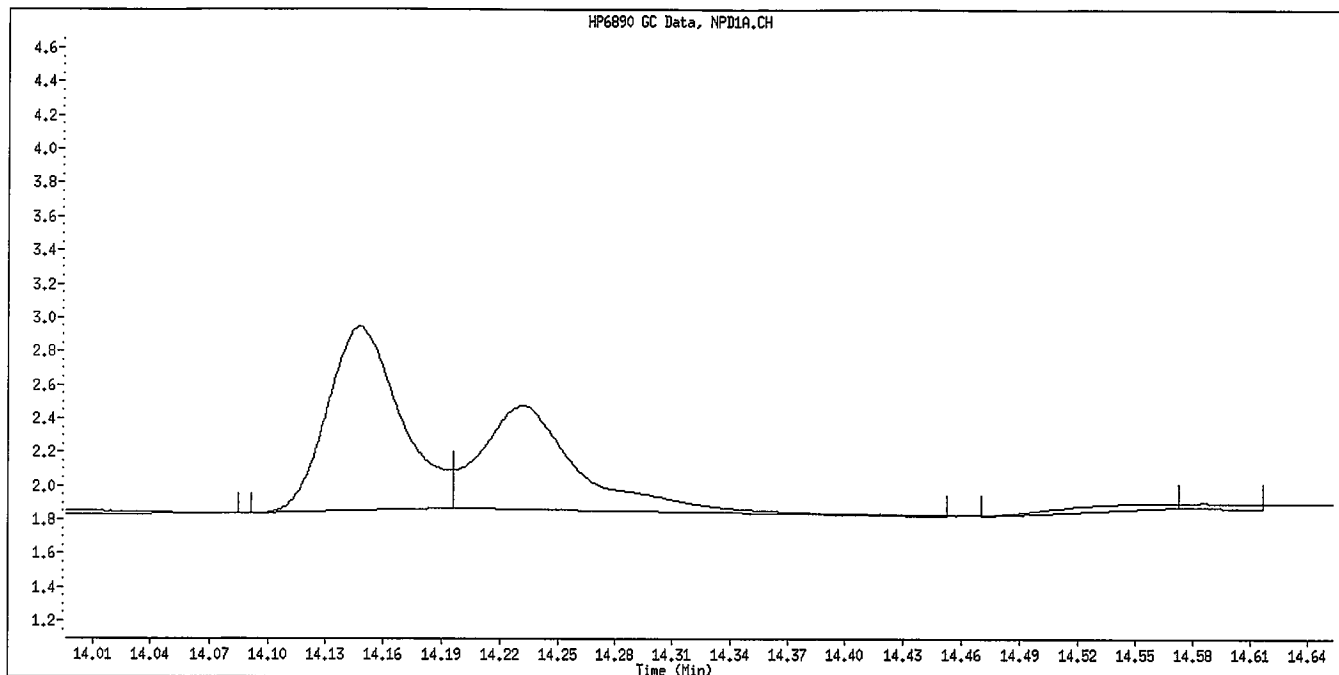


Manual Integration

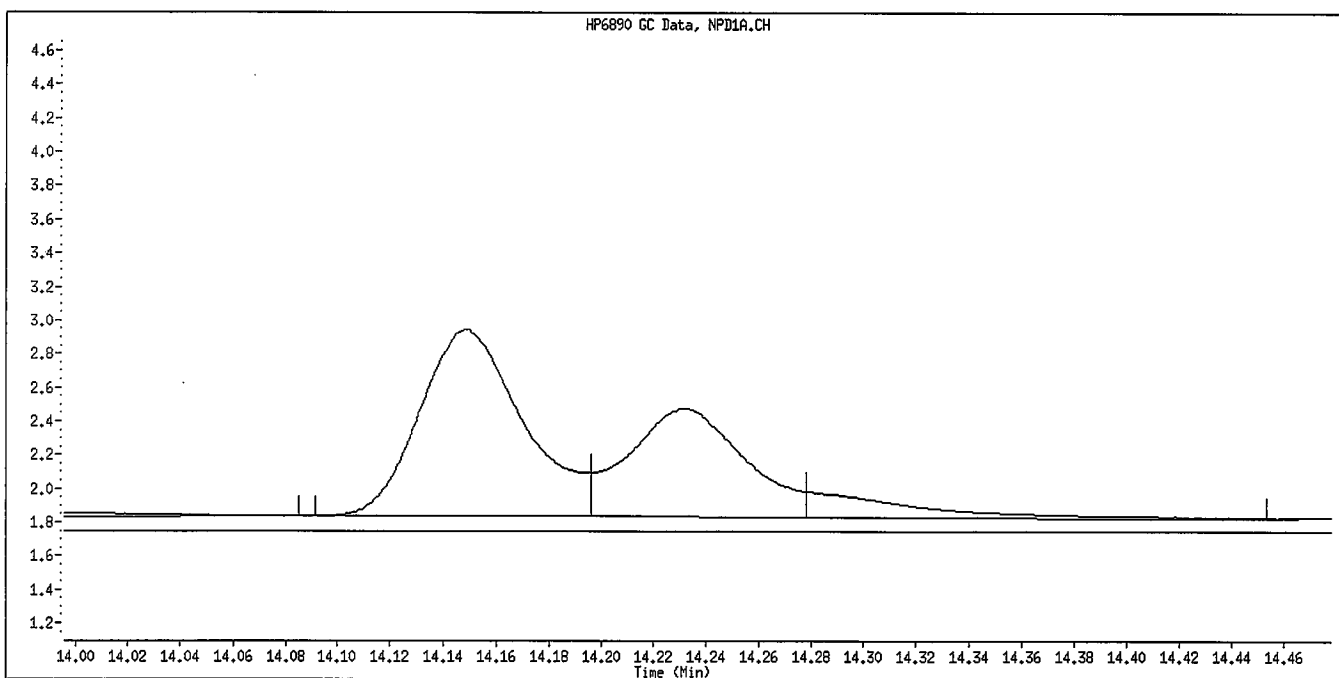
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Phorate
CAS #: 298-02-2
Report Date: 08/07/2009



Original Integration

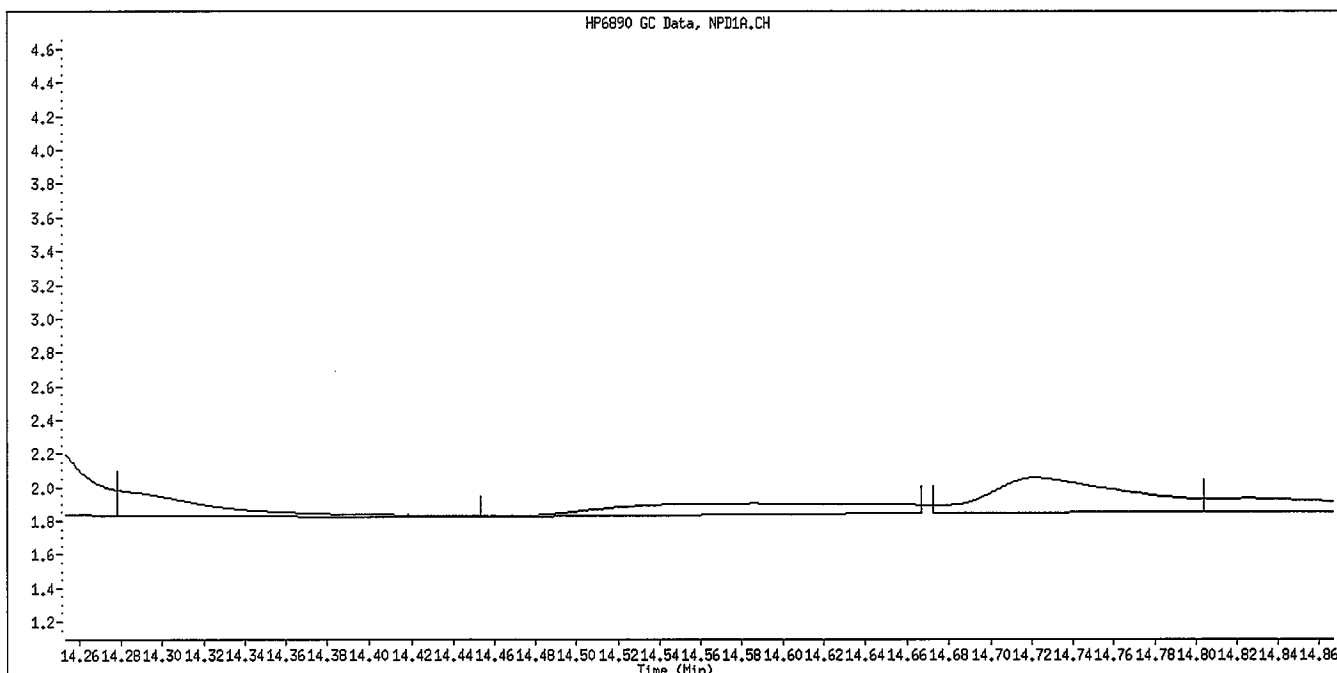
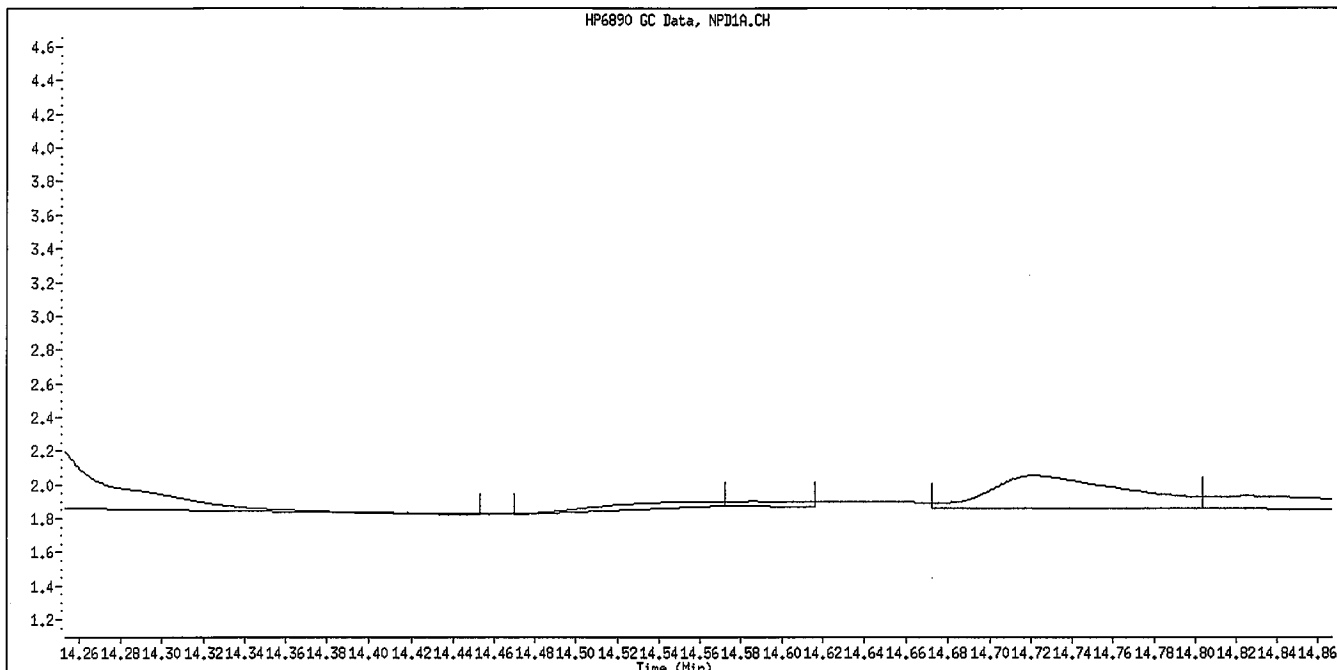


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

CFDLW

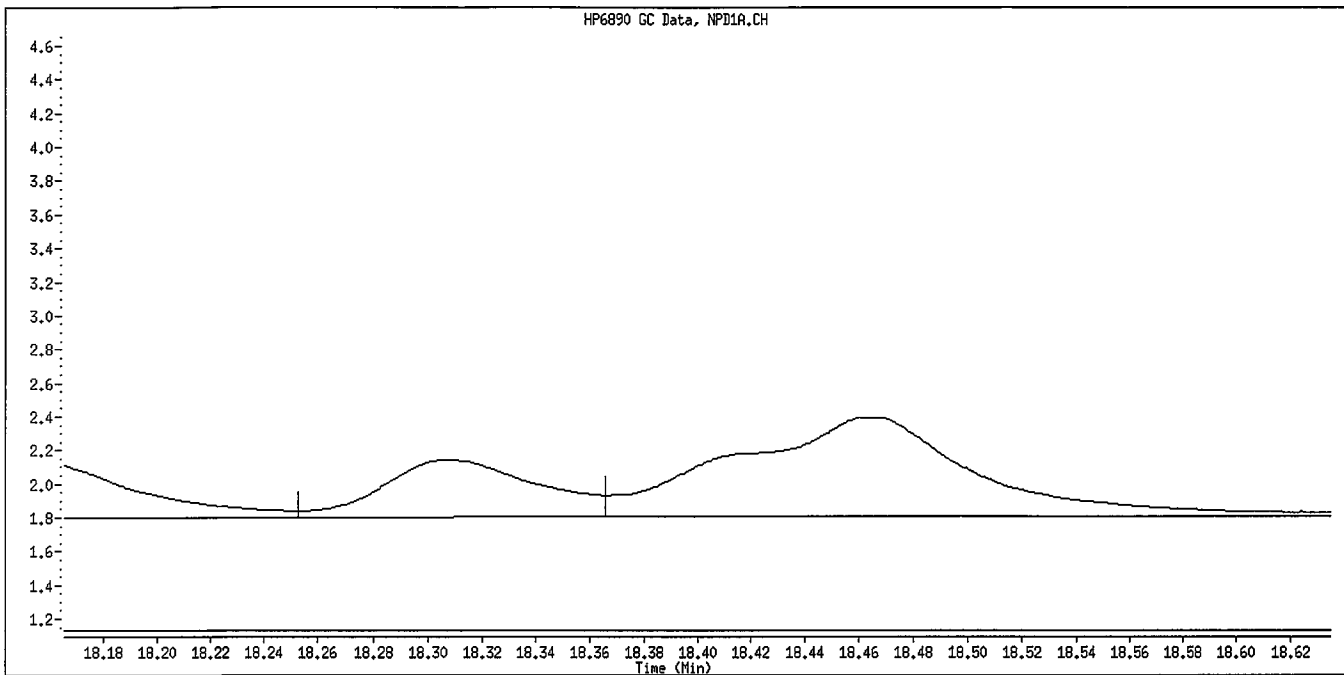
Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Dimethoate
CAS #:
Report Date: 08/07/2009



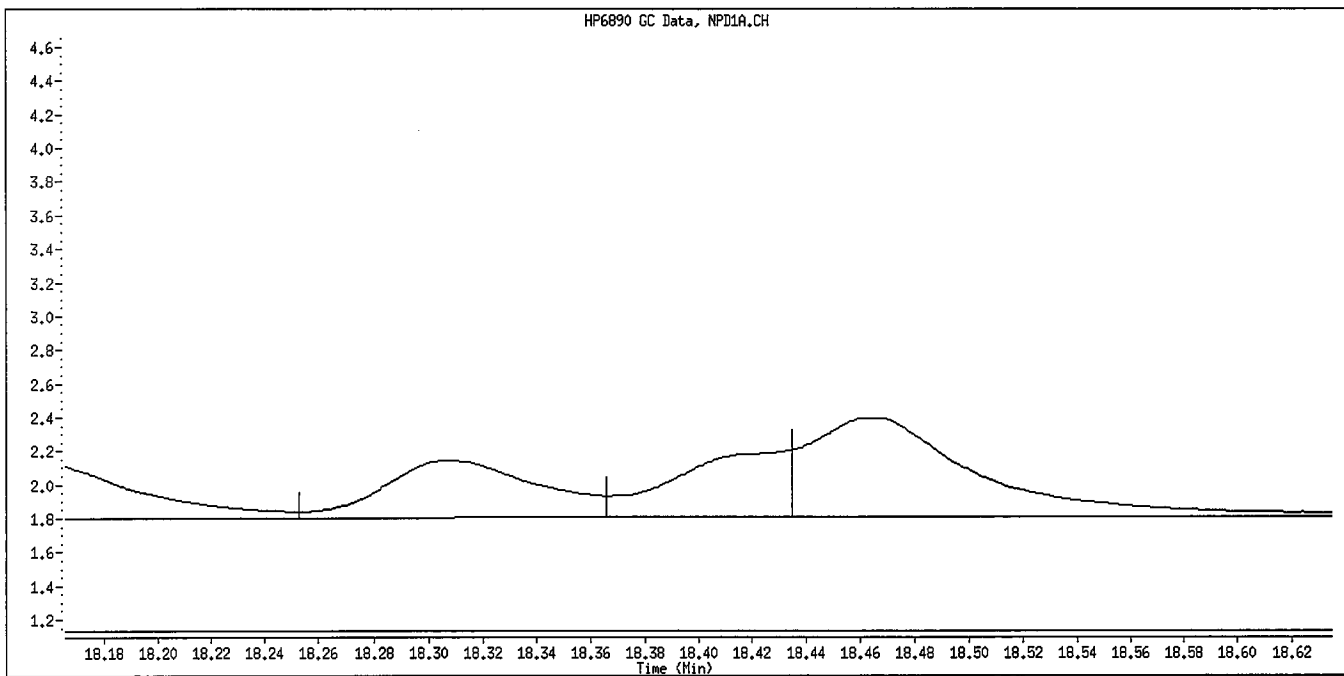
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

WFSR

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Parathion
CAS #:
Report Date: 08/07/2009



Original Integration

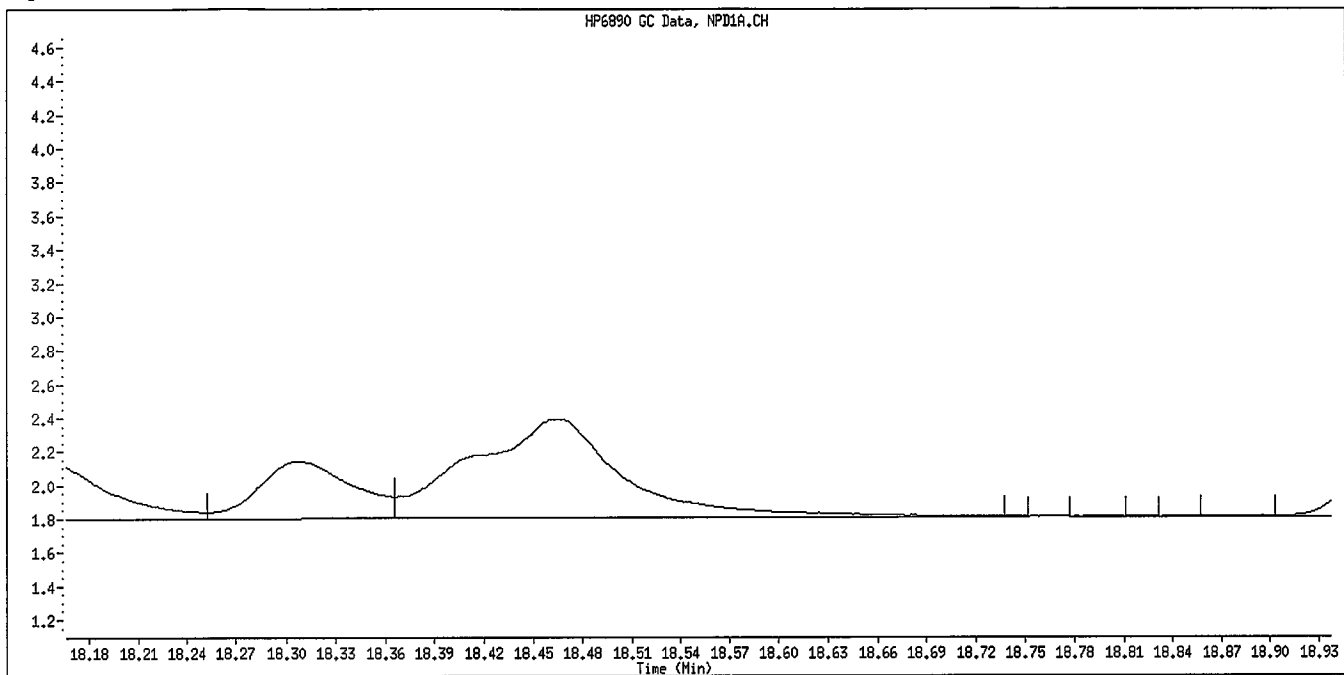


Manual Integration

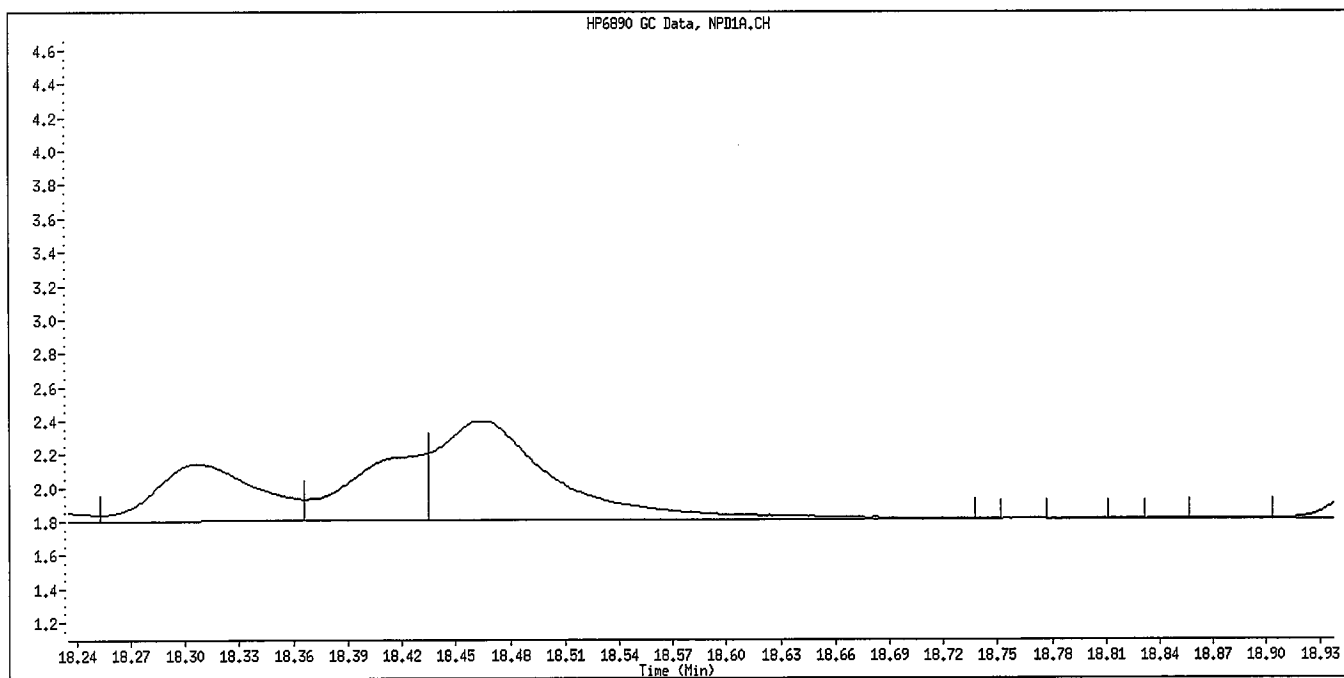
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Chlorpyrifos
CAS #:
Report Date: 08/07/2009



Original Integration

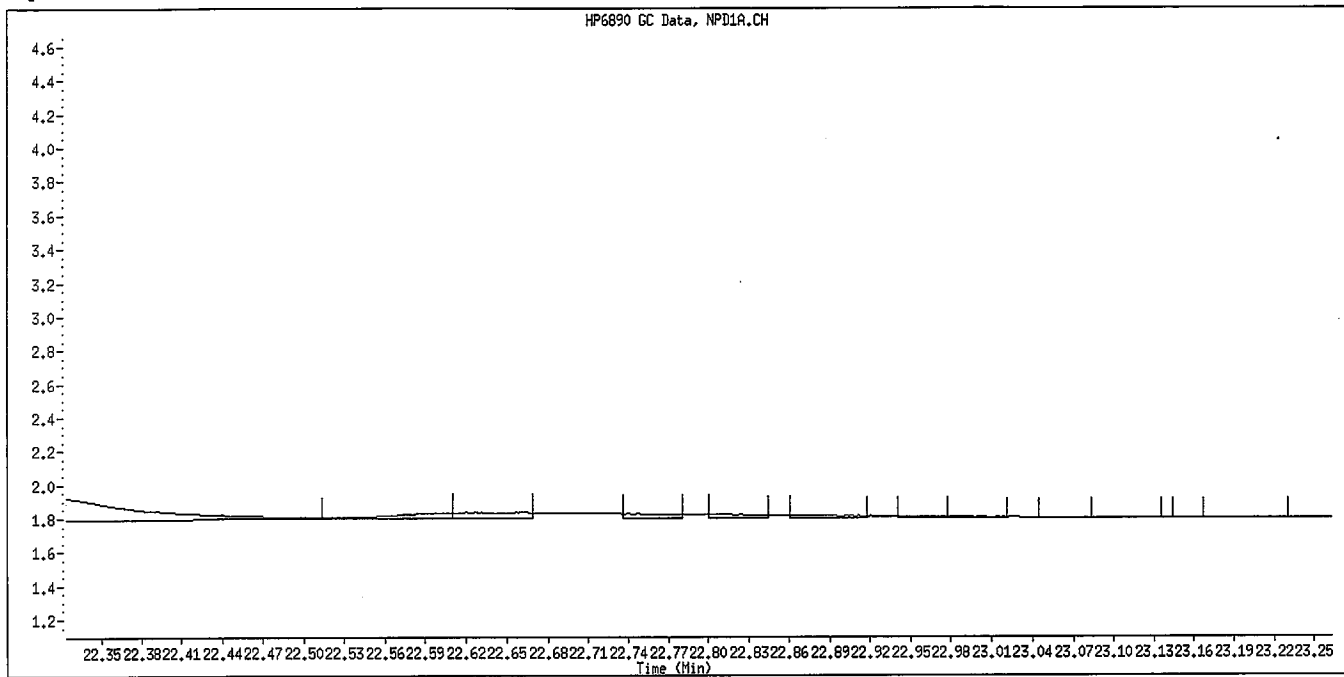


Manual Integration

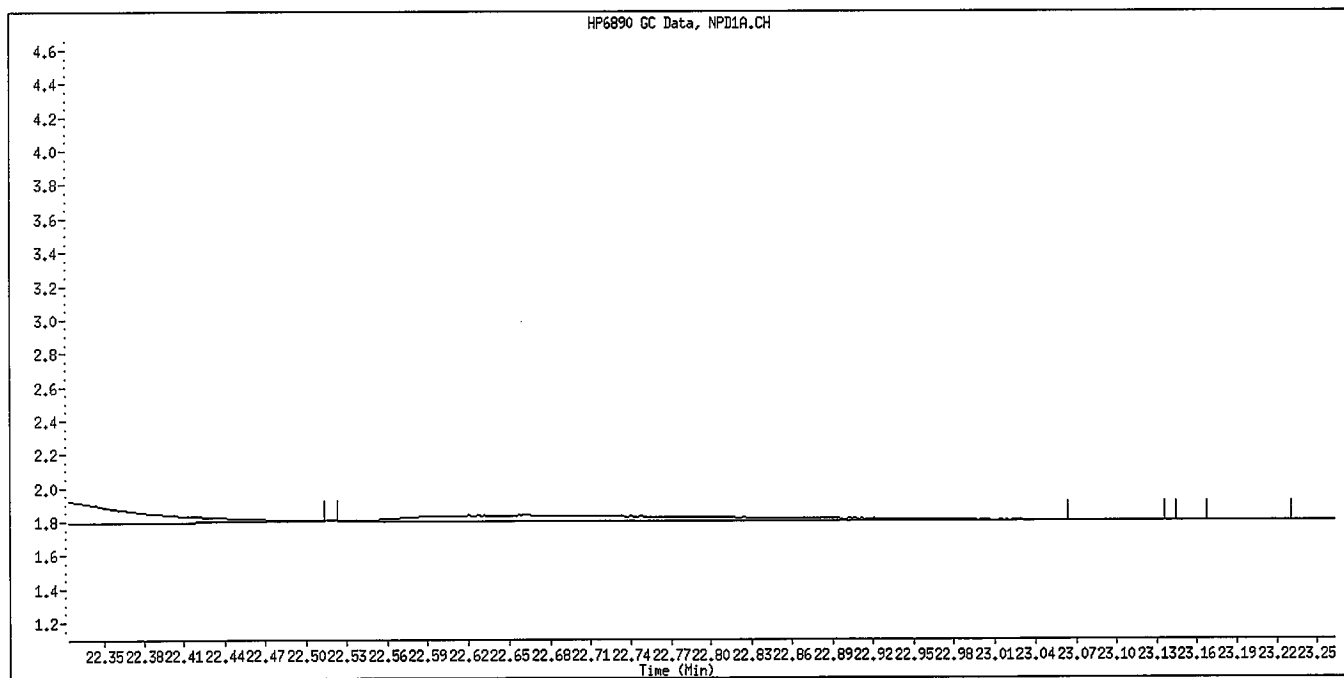
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Fensulfothion
CAS #:
Report Date: 08/07/2009



Original Integration

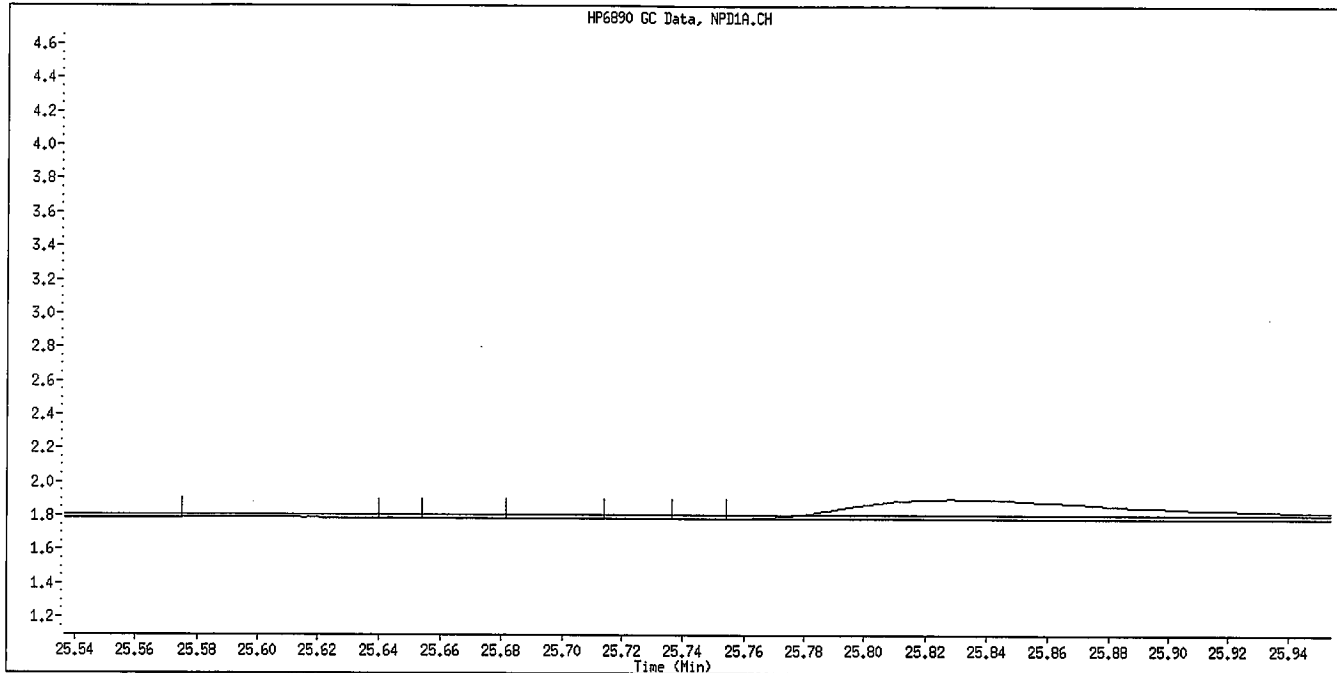


Manual Integration

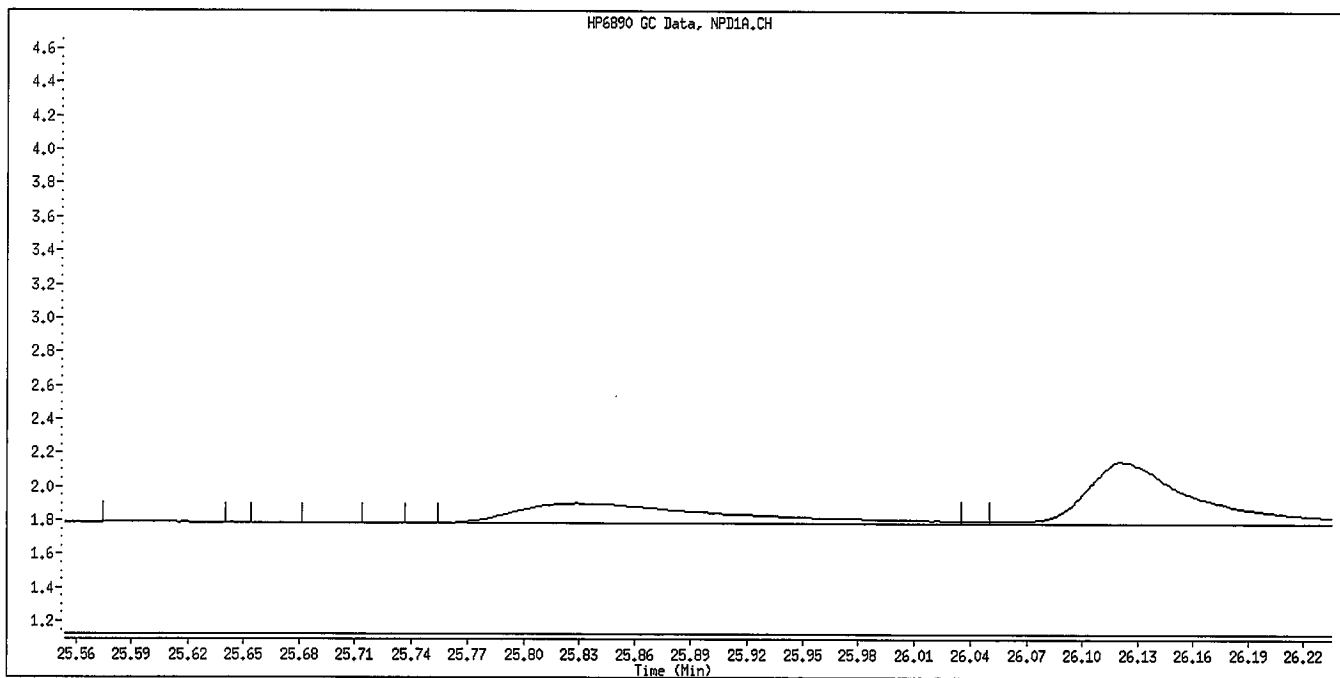
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Phosmet
CAS #:
Report Date: 08/07/2009



Original Integration

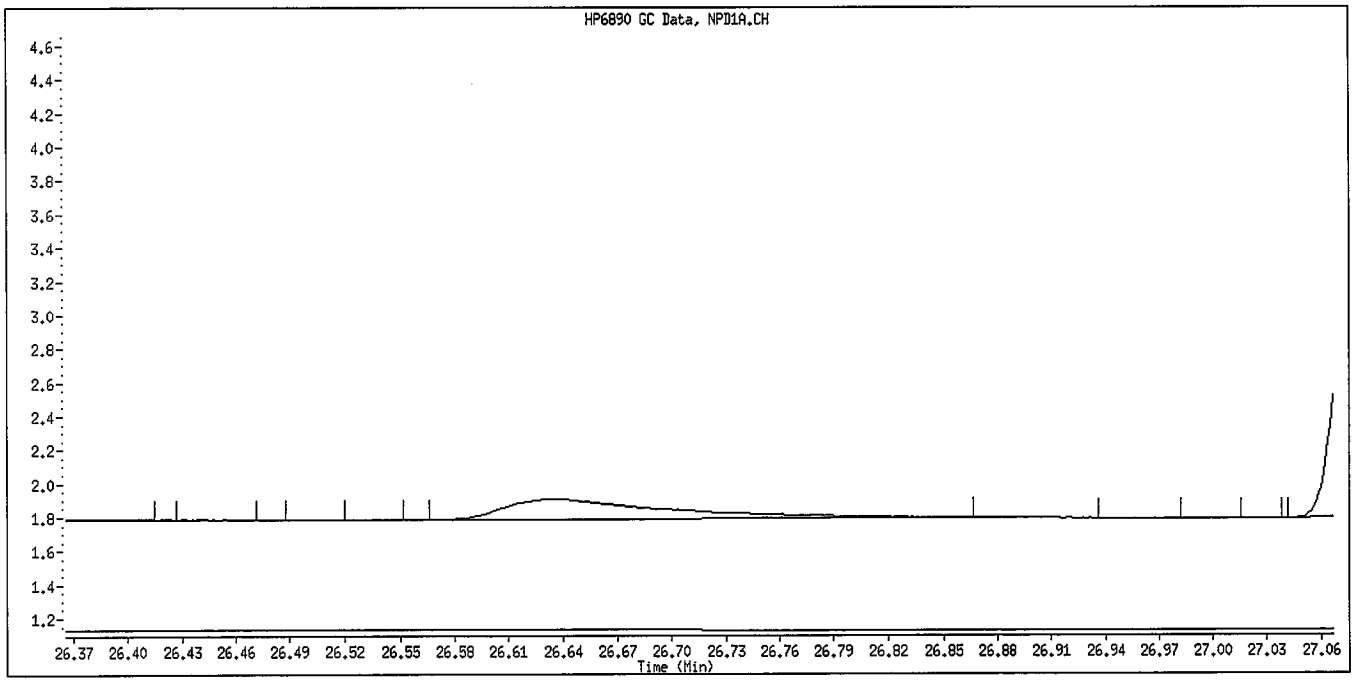
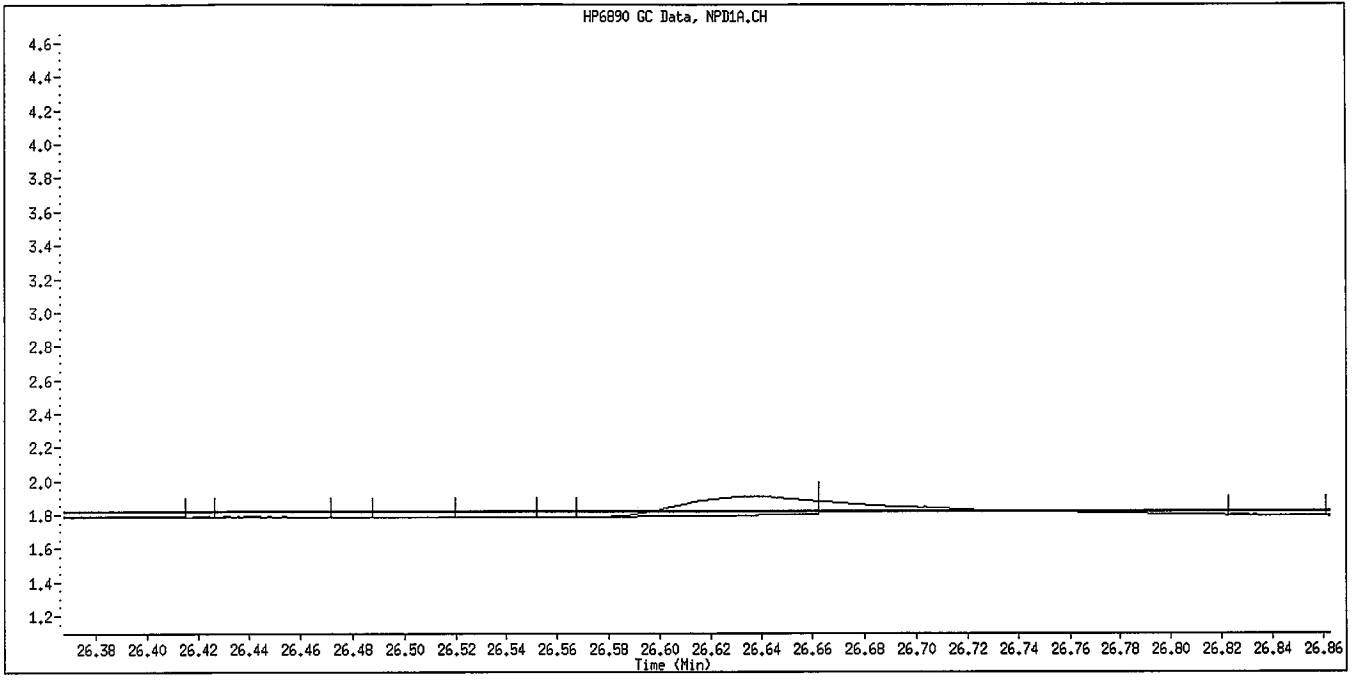


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Azinphos-methyl
CAS #:
Report Date: 08/07/2009



Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\009F0901.D
 Lab Smp Id: 8141 L1 GSV87509 Client Smp ID: 8141 L1 GSV87509
 Inj Date : 06-AUG-2009 18:34
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L1 GSV87509
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 17:58 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	4.270	4.267	(0.311)	182432	0.20000	0.2229
2 Dichlorvos	5.885	5.865	(0.428)	67759	0.20000	0.2109
3 Mevinphos	9.401	9.407	(0.684)	91	0.20000	0.4022
\$ 4 Chlormefos	9.501	9.502	(0.691)	130407	0.20000	0.2216
5 Thionazin	12.642	12.625	(0.919)	61338	0.20000	0.2027
6 Demeton-O	12.879	12.876	(0.937)	30299	0.06500	0.06629
7 Ethoprop	13.241	13.205	(0.963)	42588	0.20000	0.1917
8 Naled	13.512	13.482	(0.983)	9478	0.20000	0.2341
* 9 Tributylphosphate	13.749	13.714	(1.000)	763264	2.00000	
10 Sulfotepp	14.151	14.143	(1.029)	119283	0.20000	0.1996
11 Phorate	14.230	14.227	(1.035)	86740	0.20000	0.2204 (M)
12 Dimethoate	Compound Not Detected.					
13 Demeton-S	14.678	14.682	(1.068)	421	0.13600	0.01740
14 Simazine	14.839	14.783	(1.079)	4949	0.20000	0.2397
15 Atrazine	15.066	14.997	(1.096)	12533	0.20000	0.2594
16 propazine	Compound Not Detected.					
17 Disulfoton	15.894	15.866	(0.587)	48155	0.20000	0.2016
18 Diazinon	15.954	15.934	(0.589)	122906	0.20000	0.2010
19 Methyl Parathion	16.903	16.829	(0.624)	40155	0.20000	0.2010 (M)
20 Ronnel	17.489	17.456	(0.646)	57362	0.20000	0.1804
21 Malathion	18.182	18.134	(0.671)	47746	0.20000	0.1722
22 Fenthion	18.329	18.284	(0.677)	49230	0.20000	0.2075
23 Parathion	Compound Not Detected.					
24 Chlorpyrifos	18.476	18.451	(0.682)	166108	0.20000	0.2504
25 Trichloronate	18.987	18.958	(0.701)	81341	0.20000	0.2058
26 Anilazine	19.337	19.345	(0.714)	413	0.20000	0.4143
27 Merphos-A (Merphos)	19.827	19.804	(0.732)	27686	0.20000	0.2057
28 Tetrachlorvinphos (Stirophos)	20.614	20.532	(0.761)	27000	0.20000	0.2084 (M)
29 Tokuthion	21.318	21.278	(0.787)	76330	0.20000	0.2031
30 Merphos-B (Merphos Oxone)	21.581	21.536	(0.797)	49732	0.20000	0.2966
31 Carbophenothion-methyl	22.342	22.254	(0.825)	29119	0.20000	0.2073 (M)
32 Fensulfothion	Compound Not Detected.					
33 Bolstar / Famphur	23.694	23.627	(0.875)	97513	0.40000	0.4083 (M)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	24.017	23.947	(0.887)	59933	0.20000	0.1971 (M)
\$ 35 Triphenyl phosphate	25.327	25.270	(0.935)	41538	0.20000	0.1718
36 Phosmet	25.860	25.769	(0.955)	25548	0.20000	0.2071 (M)
37 EPN	26.132	26.097	(0.965)	58024	0.20000	0.1855
38 Azinphos-methyl	26.645	26.584	(0.984)	25233	0.20000	0.2530 (M)
* 39 TOCP	27.086	27.076	(1.000)	553974	2.00000	
40 Azinphos-ethyl	27.219	27.172	(1.005)	66517	0.20000	0.2310
41 Coumaphos	27.740	27.694	(1.024)	33445	0.20000	0.2085 (M)
M 42 Total Demeton				30720	0.20000	0.08369
M 43 Merphos				77418	0.20000	0.2116

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i
 Lab File ID: 009F0901.D
 Lab Smp Id: 8141 L1 GSV87509
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 L1 GSV8750
 Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	1034306	517153	2068612	763264	-26.21
39 TOCP	695324	347662	1390648	553974	-20.33

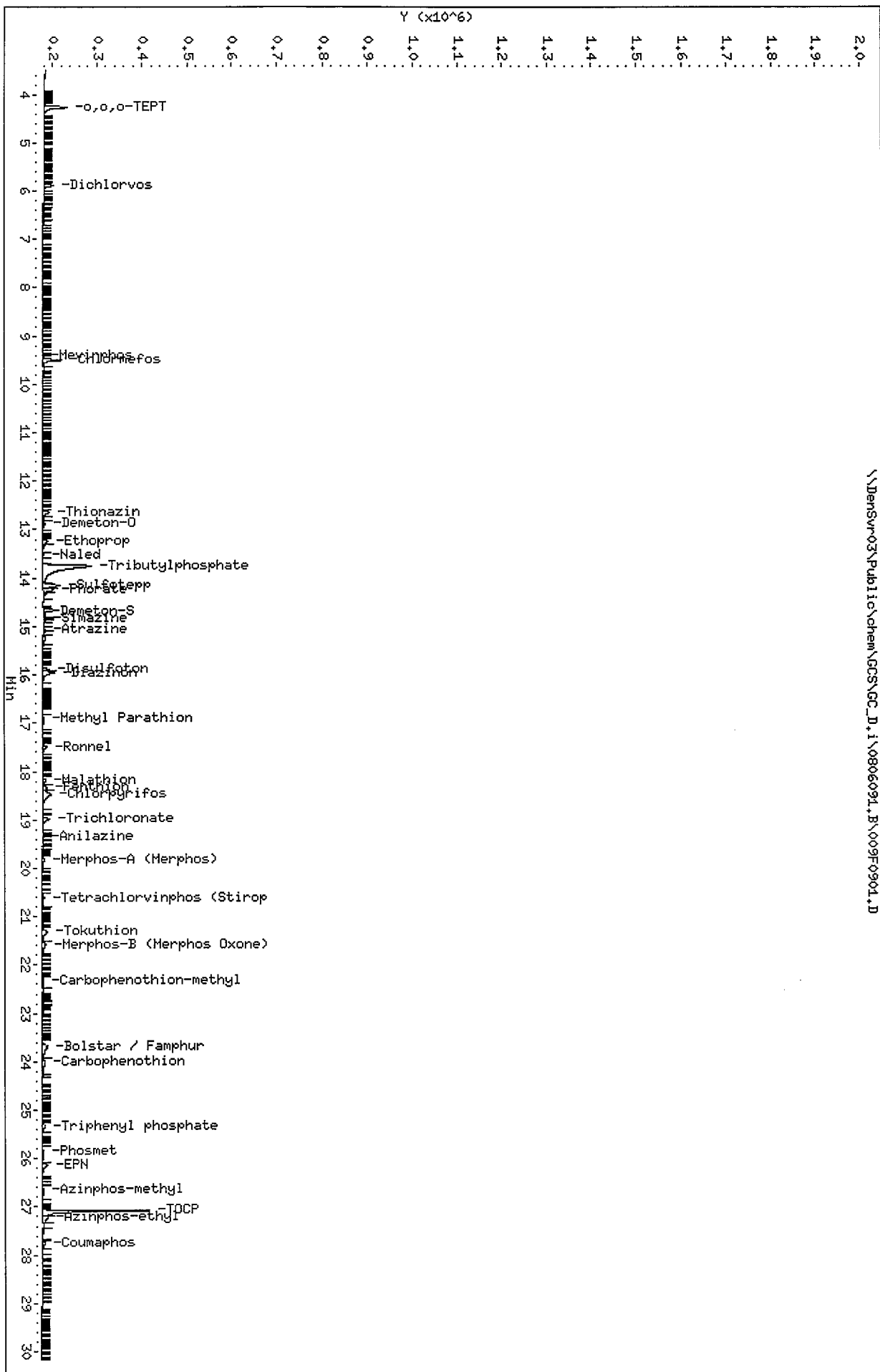
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.70	13.20	14.20	13.75	0.37
39 TOCP	27.08	26.58	27.58	27.09	0.04

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: \\Densv03\Public\chem\GCSS\GC_D,\1\0806091.B\009F0901.D
 Date: 06-AUG-2009 18:34
 Client ID: 8141 L1 GSV87509
 Sample Info: 8141 L1 GSV87509
 Column phase: RTX-1HS

Instrument: GC_D.i
 Operator: HPK/TLM
 Column diameter: 0.32

\\Densv03\Public\chem\GCSS\GC_D,\1\0806091.B\009F0901.D



CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: GC_D.i
 Lab File ID: 009F0901.D
 Analysis Type: NONE

Injection Date: 06-AUG-2009 18:34
 Lab Sample ID: 8141 L1 GSV87509
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	3.0000	0.2454	91.8	15.0 <-
2 Dichlorvos	3.0000	0.2109	93.0	15.0 <-
3 Mevinphos	3.0000	0.2214	92.6	15.0 <-
4 Chlormefos	3.0000	0.2216	92.6	15.0 <-
5 Thionazin	3.0000	0.2027	93.2	15.0 <-
6 Demeton-O	0.9750	0.0797	91.8	15.0 <-
7 Ethoprop	3.0000	0.1917	93.6	15.0 <-
8 Naled	3.0000	0.2152	92.8	15.0 <-
9 Sulfotepp	3.0000	0.1996	93.3	15.0 <-
10 Phorate	3.0000	0.2032	93.2	15.0 <-
11 Dimethoate	3.0000	0.0000	100.0	15.0 <-
12 Demeton-S	2.0400	0.0015	99.9	15.0 <-
13 Simazine	3.0000	0.1647	94.5	15.0 <-
14 Atrazine	3.0000	0.2057	93.1	15.0 <-
15 propazine	3.0000	0.0000	100.0	15.0 <-
17 Disulfoton	3.0000	0.1917	93.6	15.0 <-
16 Diazinon	3.0000	0.2700	91.0	15.0 <-
18 Methyl Parathion	3.0000	0.1960	93.5	15.0 <-
19 Ronnel	3.0000	0.2162	92.8	15.0 <-
20 Malathion	3.0000	0.1722	94.3	15.0 <-
21 Fenthion	3.0000	0.2075	93.1	15.0 <-
22 Parathion	3.0000	0.0000	100.0	15.0 <-
23 Chlorpyrifos	3.0000	0.2100	93.0	15.0 <-
24 Trichloronate	3.0000	0.2163	92.8	15.0 <-
25 Anilazine	3.0000	0.3483	88.4	15.0 <-
148 Merphos-A (Merphos)	3.0000	0.2490	91.7	999.0
26 Tetrachlorvinphos (Stirophos)	3.0000	0.2225	92.6	15.0 <-
28 Tokuthion	3.0000	0.2031	93.2	15.0 <-
149 Merphos-B (Merphos Oxone)	3.0000	0.3775	87.4	999.0
29 Carbophenothion-methyl	3.0000	0.2073	93.1	15.0 <-
29 Fensulfothion	3.0000	0.0000	100.0	15.0 <-
30 Bolstar / Famphur	6.0000	0.3188	94.7	15.0 <-
32 Carbophenothion	3.0000	0.1971	93.4	15.0 <-
31 Triphenyl phosphate	3.0000	0.1718	94.3	15.0 <-
34 Phosmet	3.0000	0.1157	96.1	15.0 <-
32 EPN	3.0000	0.1855	93.8	15.0 <-
33 Azinphos-methyl	3.0000	0.2350	92.2	15.0 <-
38 Azinphos-ethyl	3.0000	0.2128	92.9	15.0 <-
36 Coumaphos	3.0000	0.1505	95.0	15.0 <-

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\009F0901.D
Report Date: 08/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

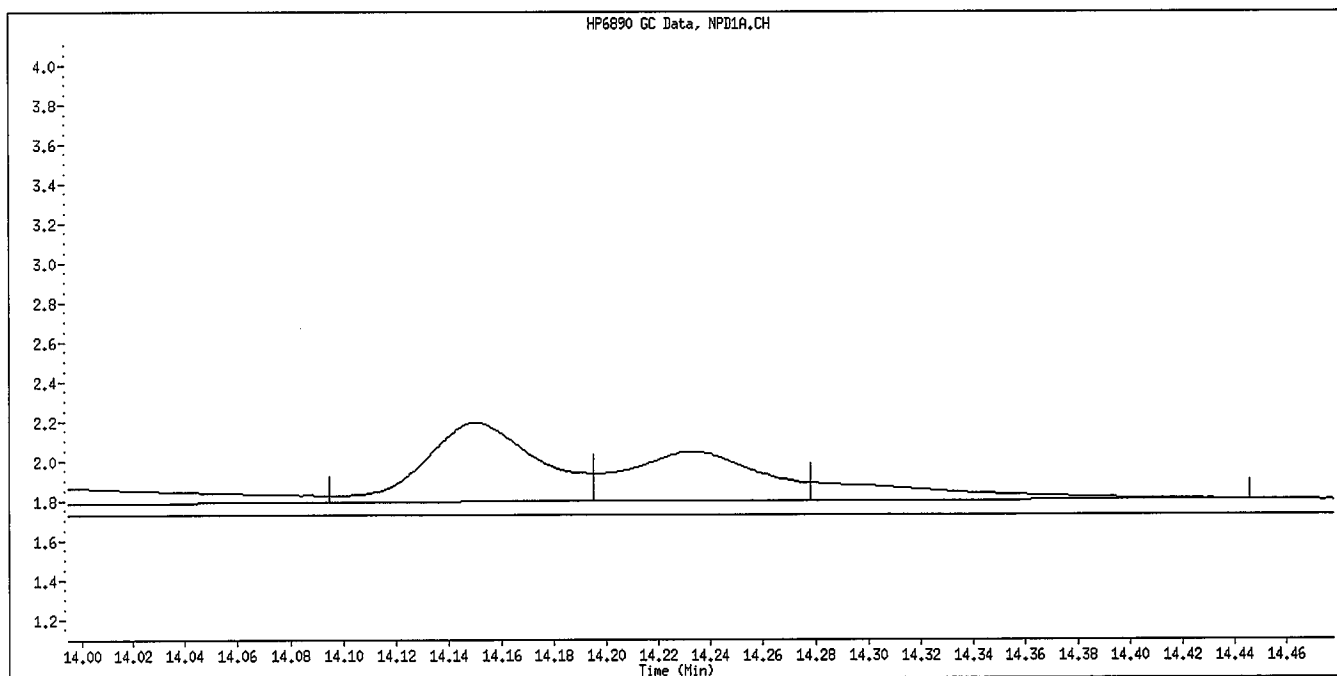
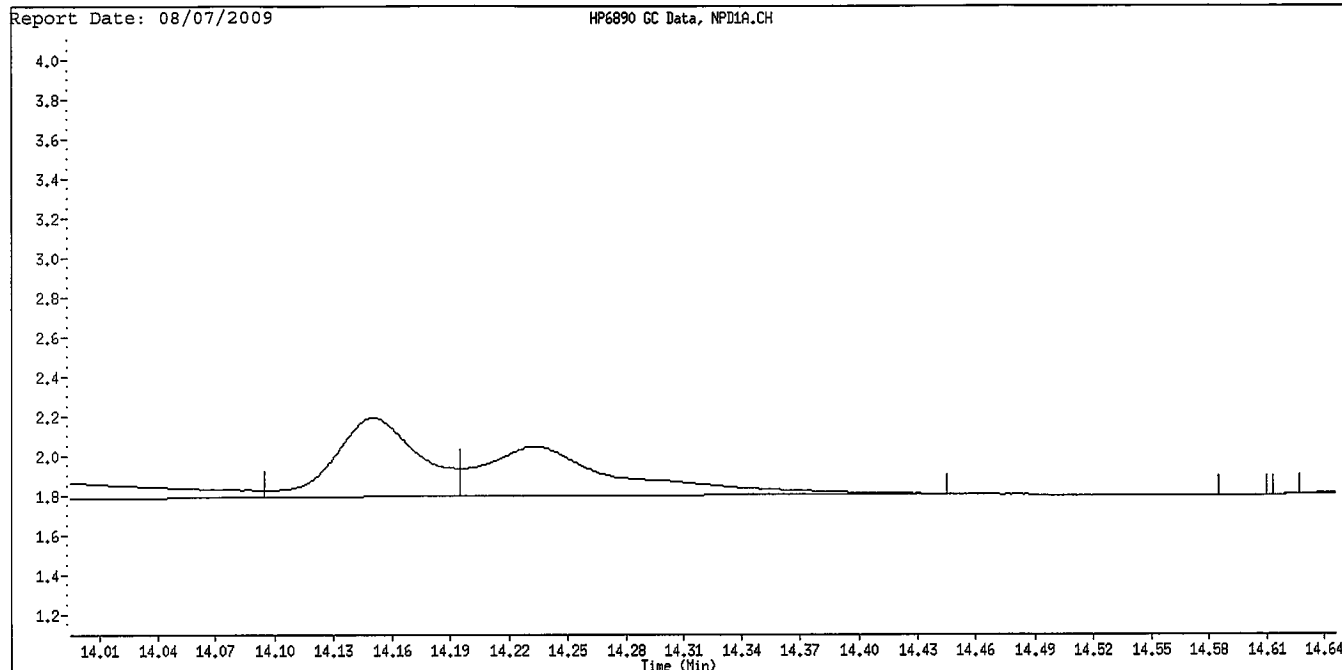
Instrument ID: GC_D.i
Lab File ID: 009F0901.D
Analysis Type: NONE

Injection Date: 06-AUG-2009 18:34
Lab Sample ID: 8141 L1 GSV87509
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	3.0000	0.0812	97.3	15.0
27 Merphos	3.0000	0.2116	92.9	15.0

Average %D = 93.9

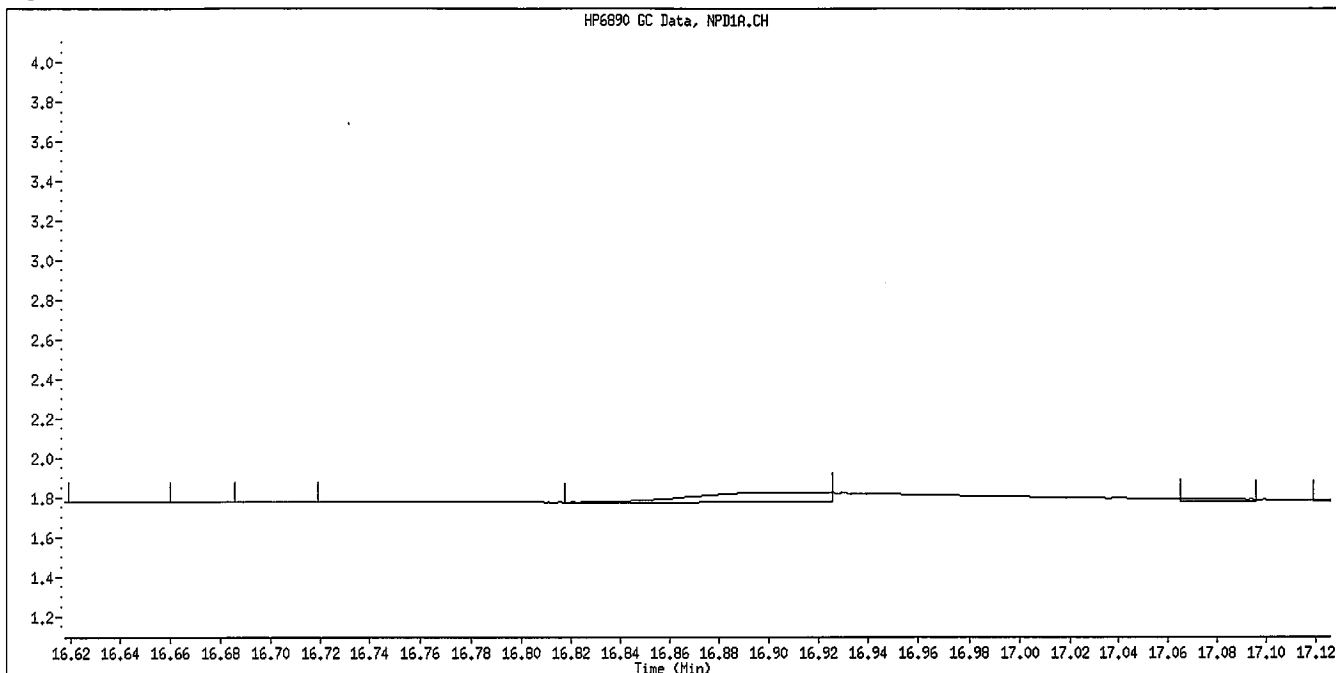
Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Phorate
CAS #: 298-02-2



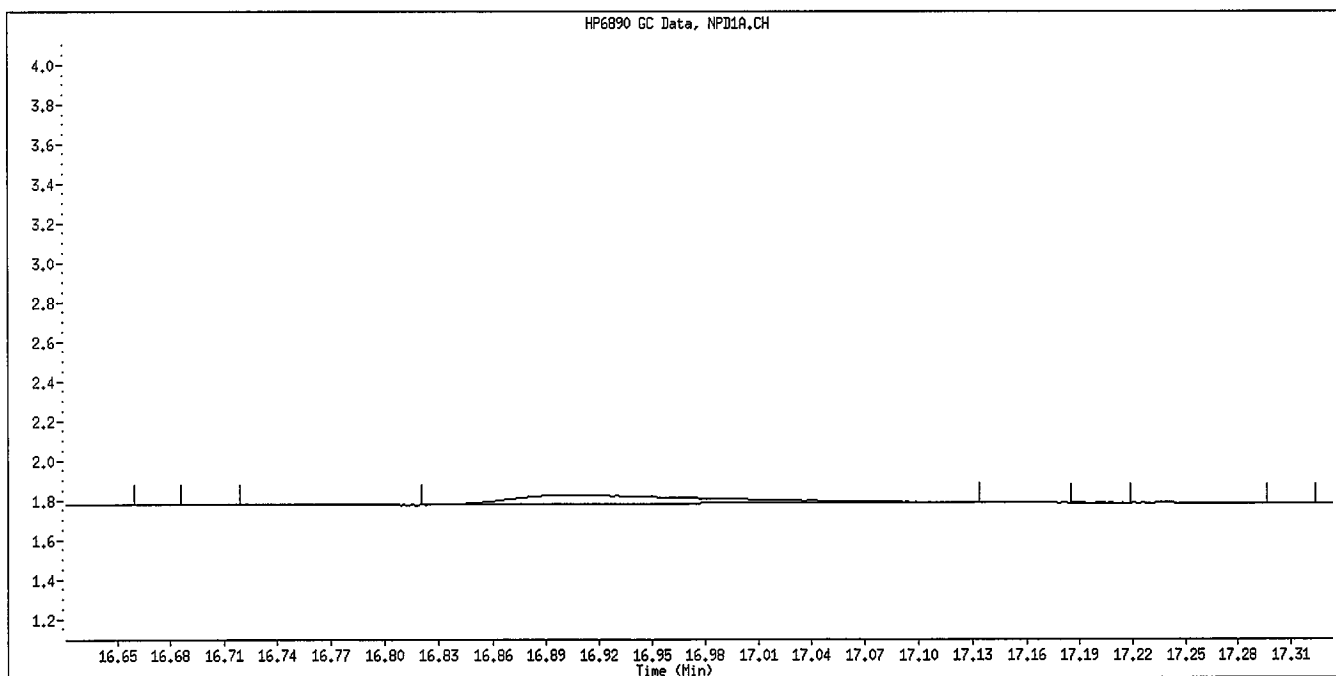
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Methyl Parathion
CAS #: 298-00-0
Report Date: 08/07/2009



Original Integration

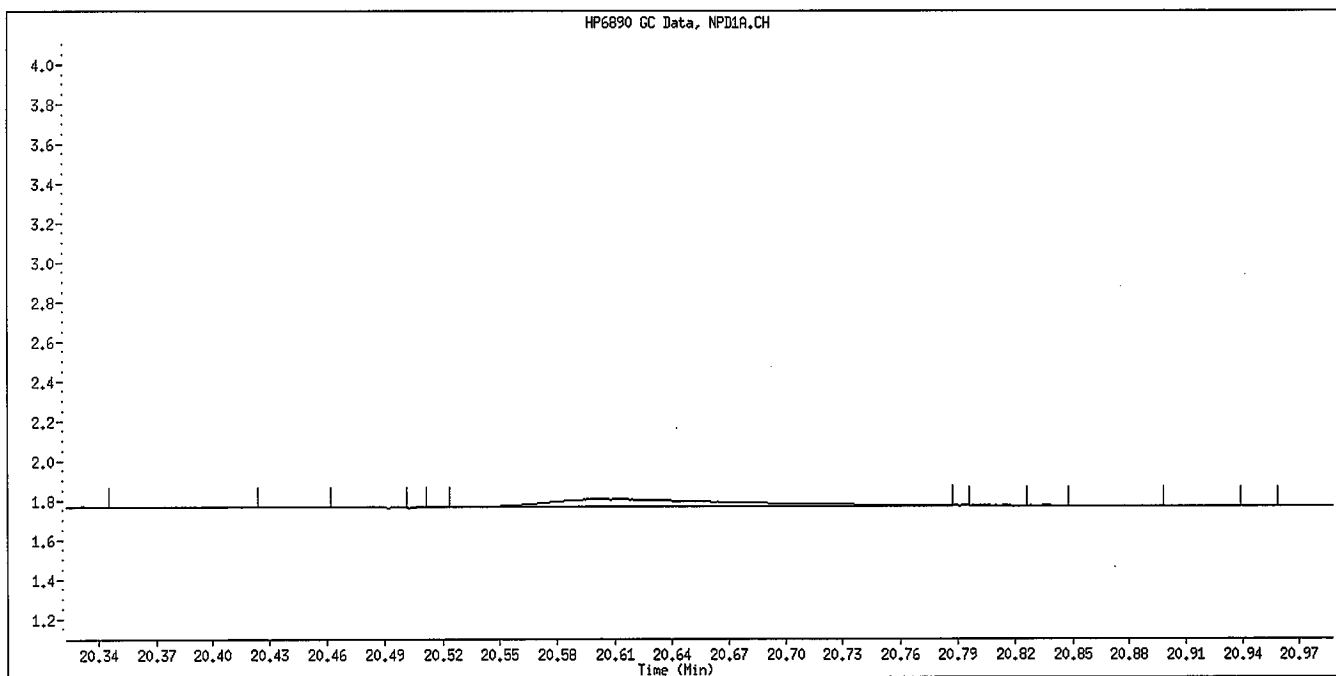
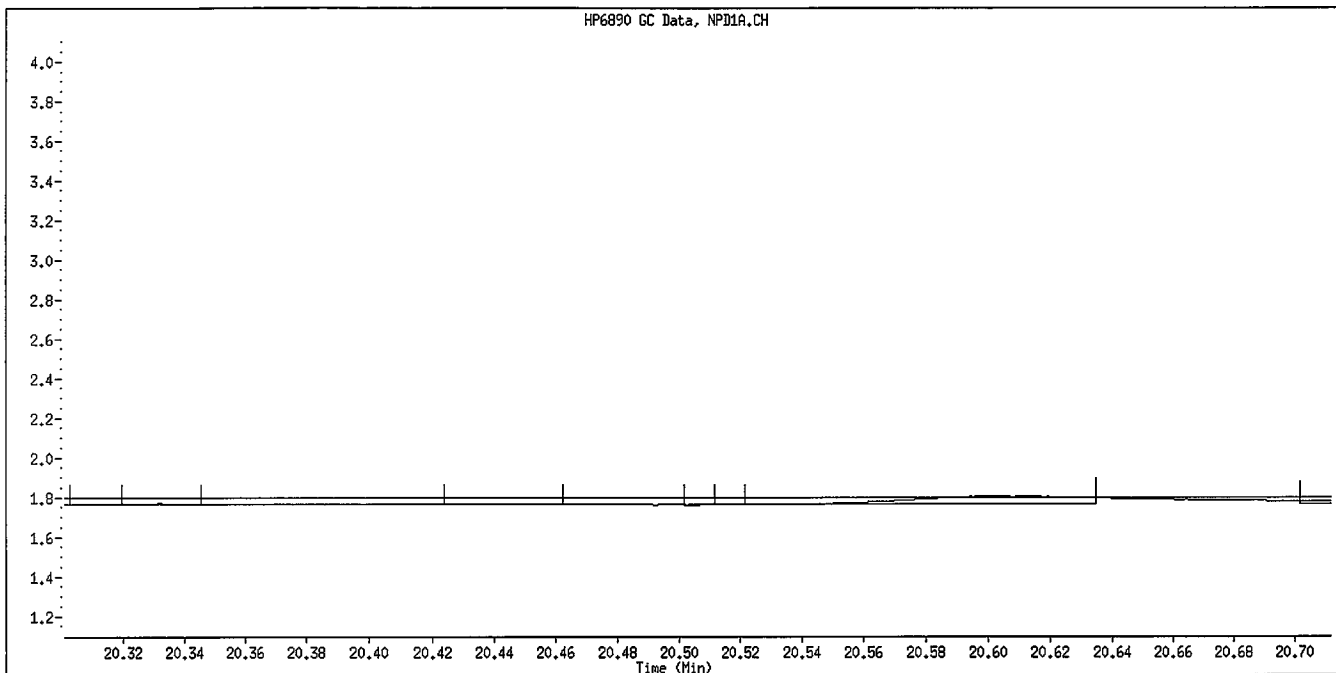


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

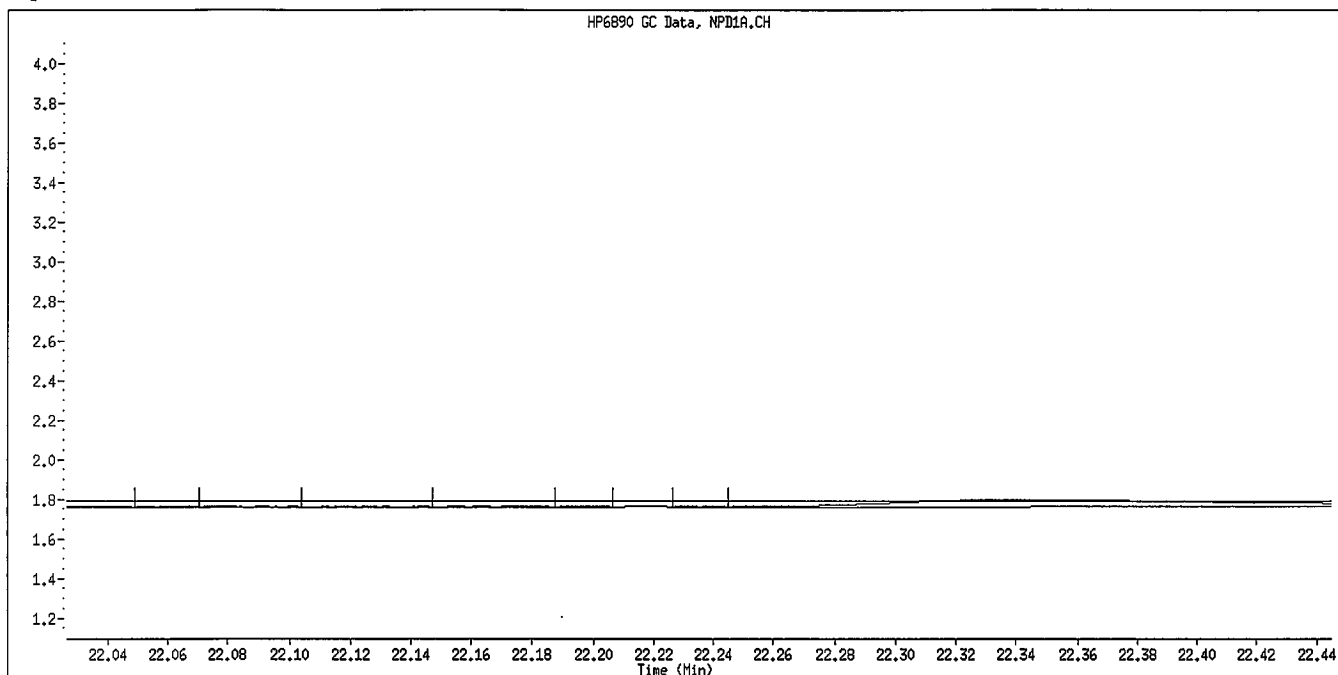
Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Tetrachlorvinphos (Stirophos)
CAS #:
Report Date: 08/07/2009



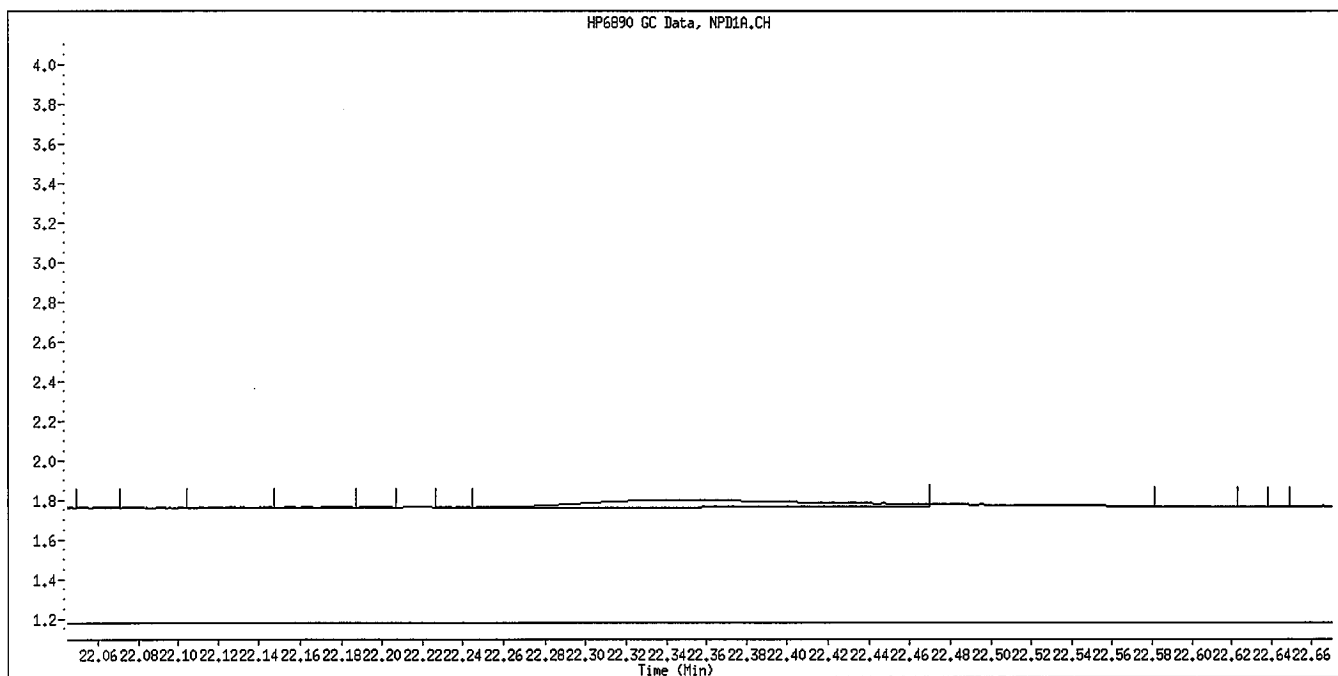
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Carbophenothion-methyl
CAS #:
Report Date: 08/07/2009



Original Integration

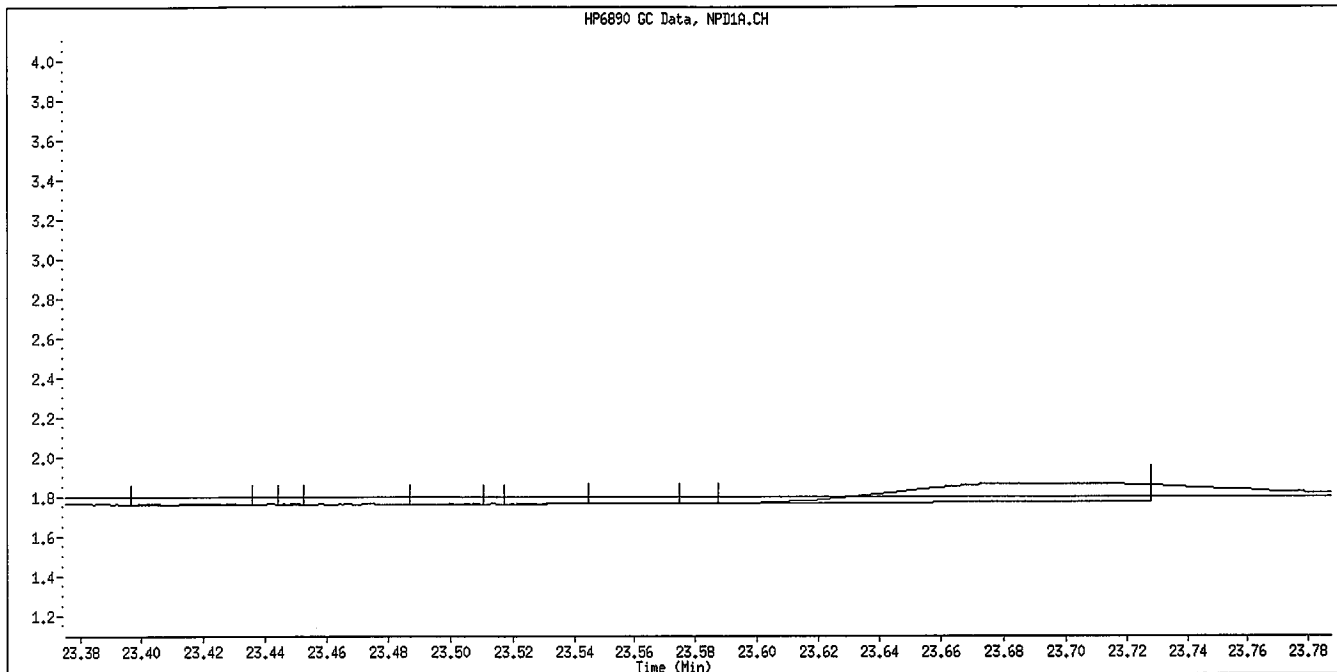


Manual Integration

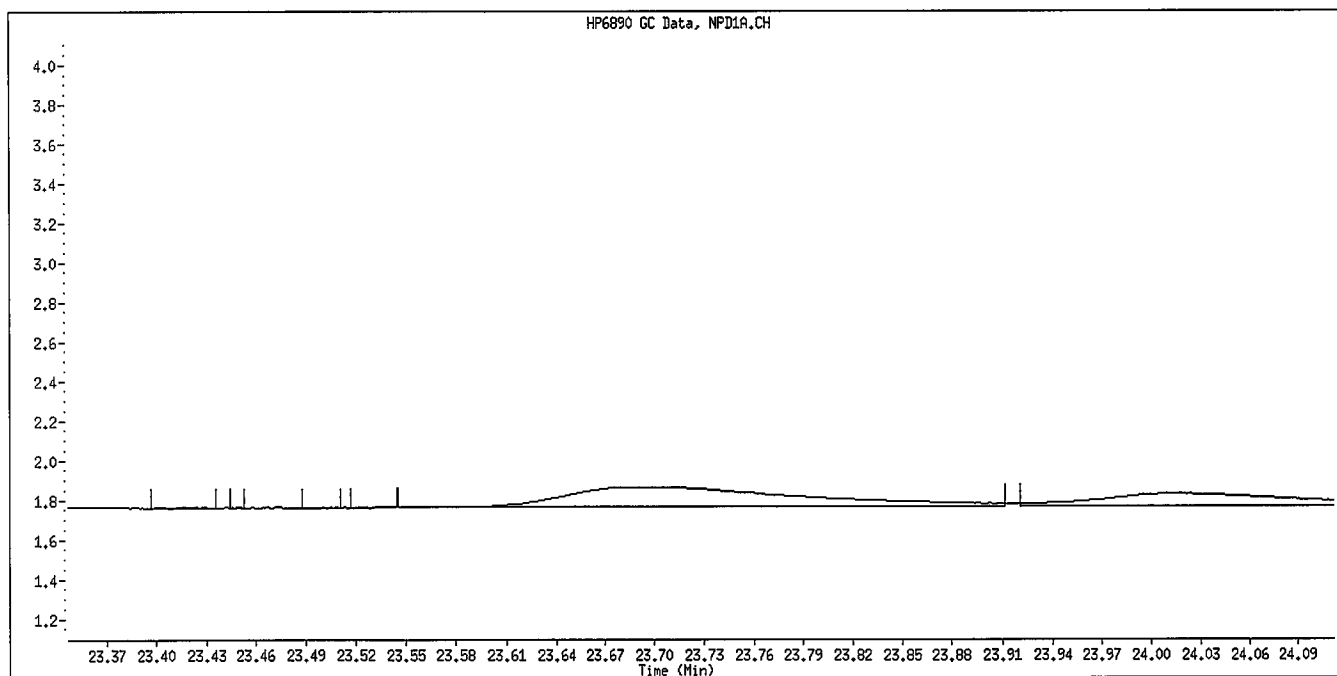
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature:
WJL
8/7/09

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Bolstar / Famphur
CAS #:
Report Date: 08/07/2009



Original Integration

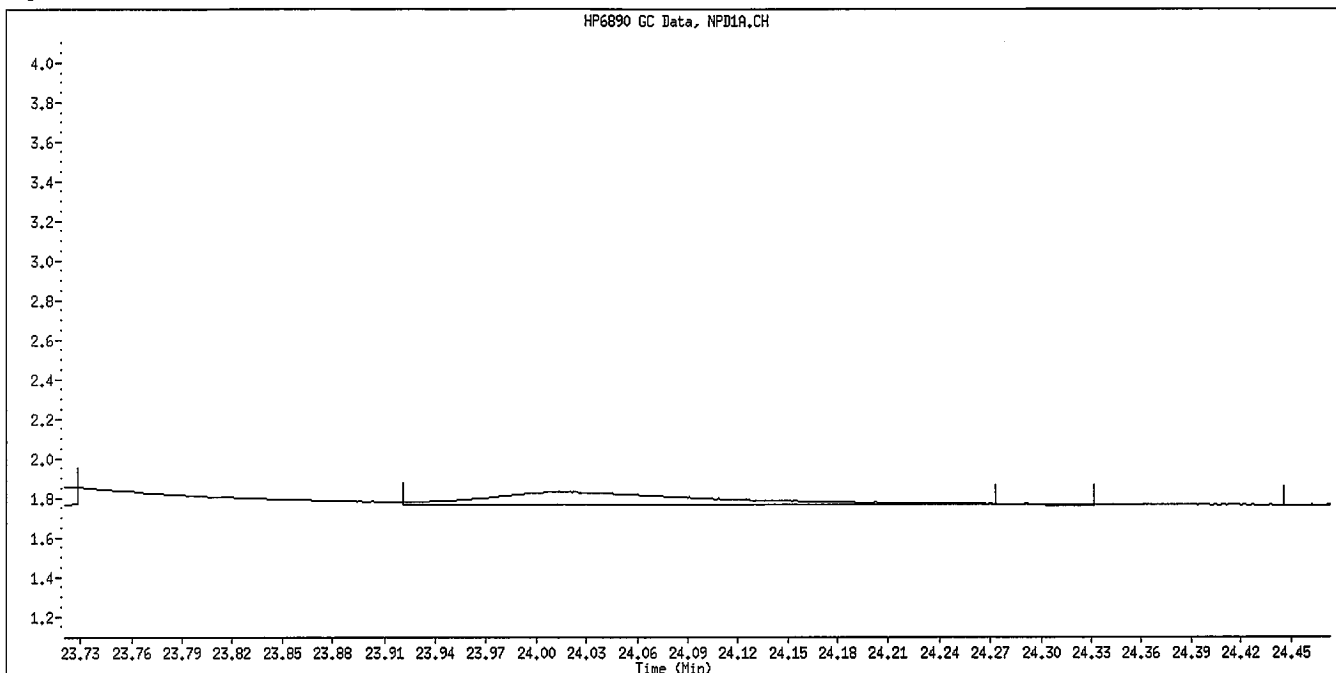


Manual Integration

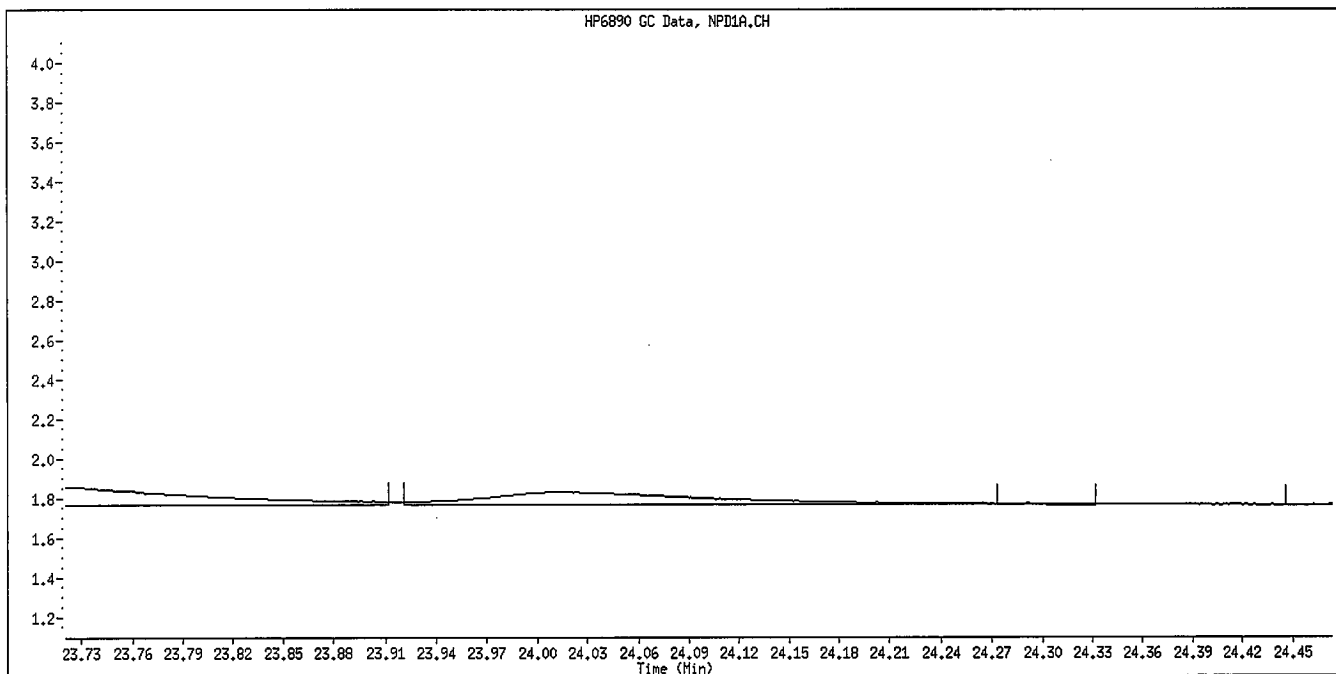
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Carbophenothion
CAS #:
Report Date: 08/07/2009



Original Integration

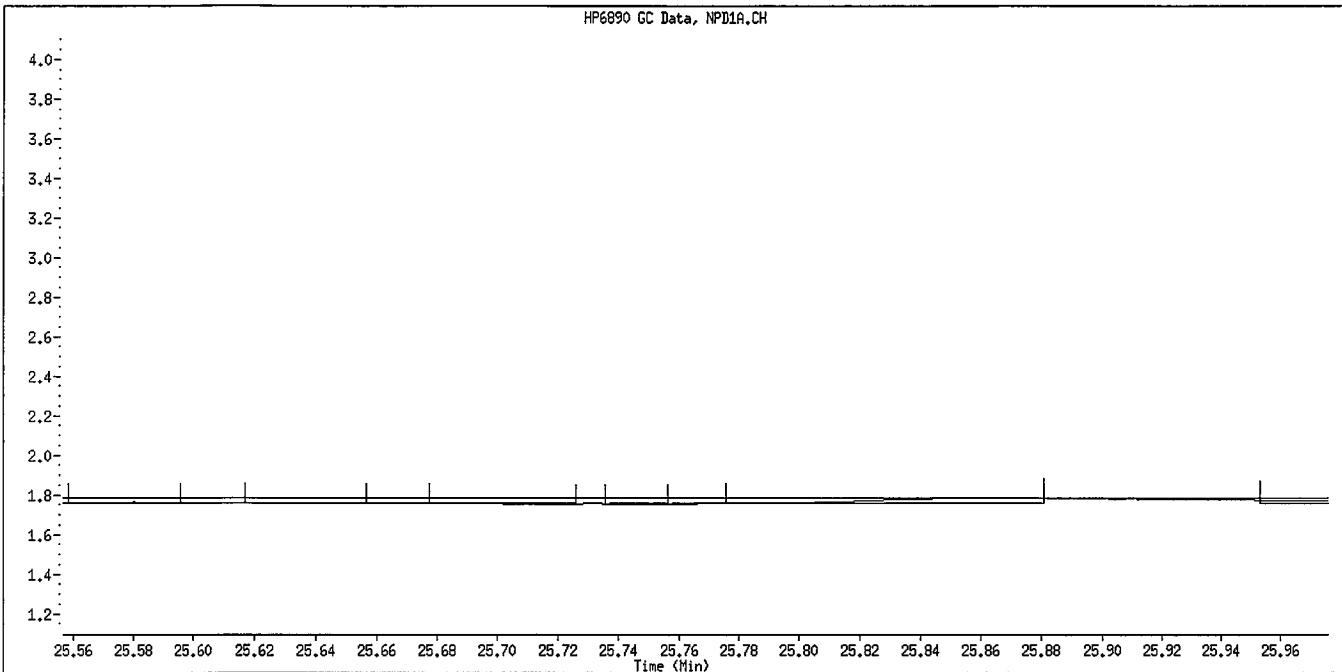


Manual Integration

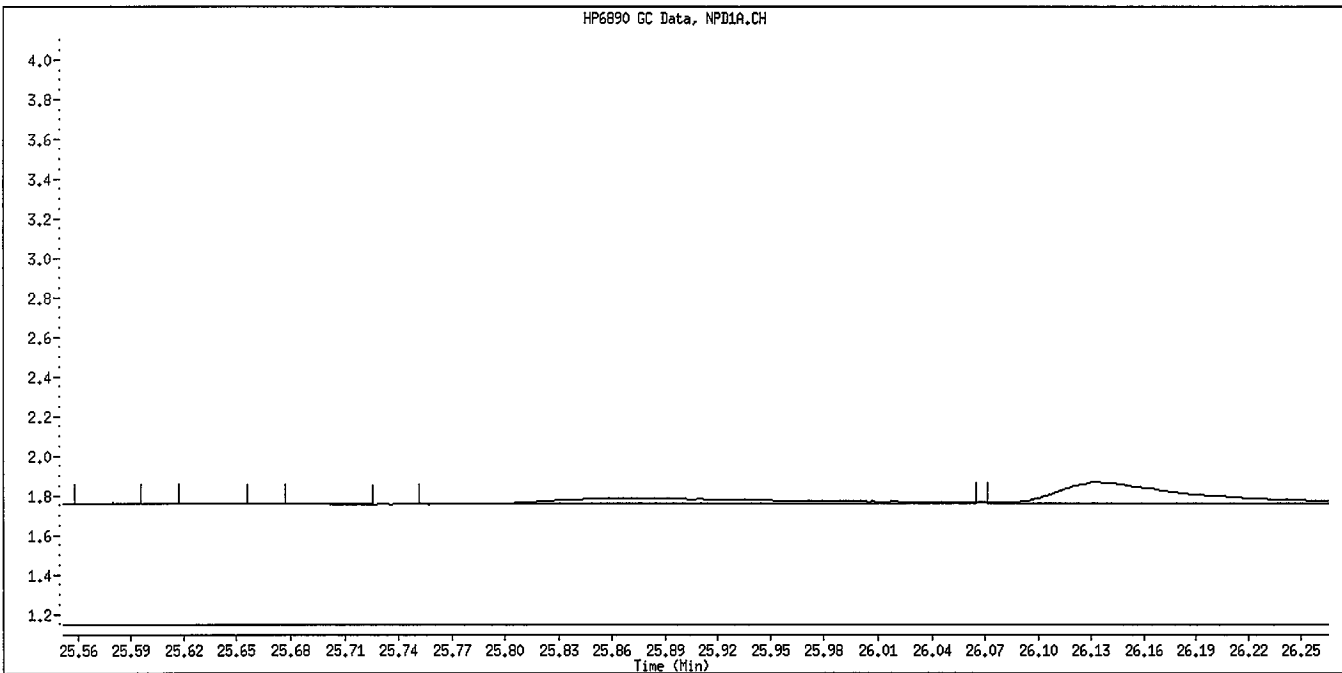
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature/initials

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Phosmet
CAS #:
Report Date: 08/07/2009



Original Integration

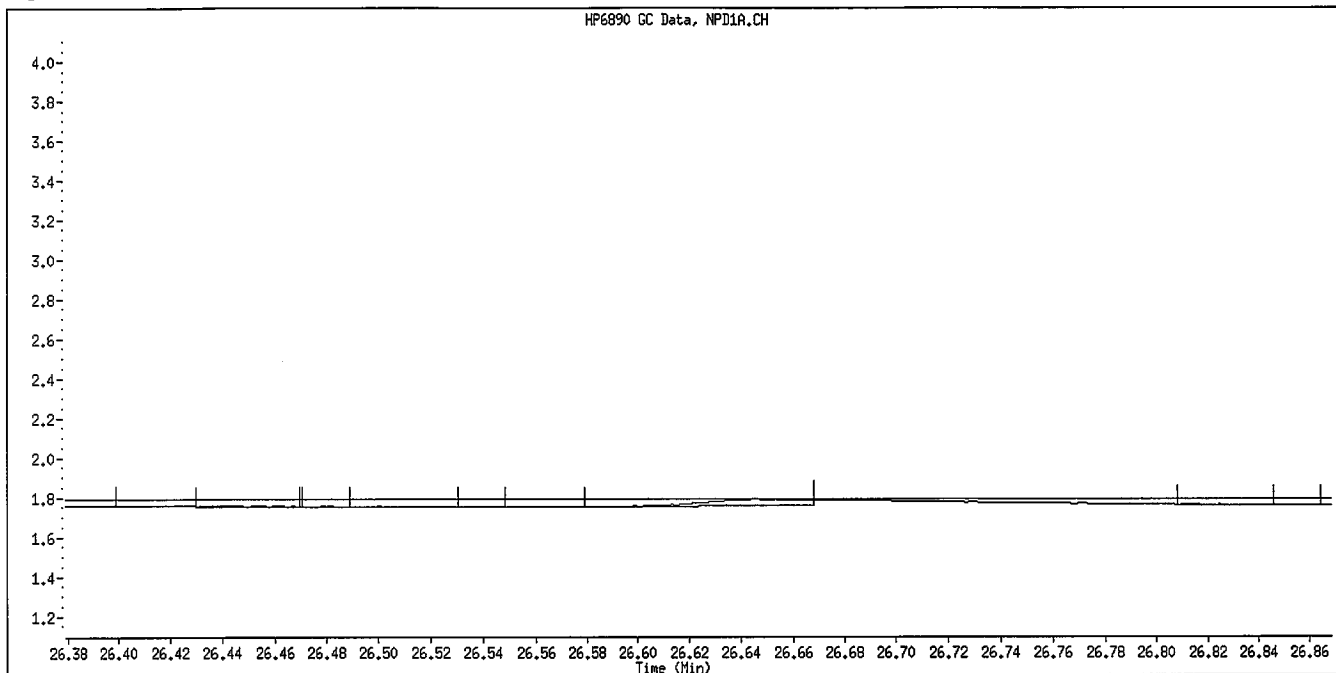


Manual Integration

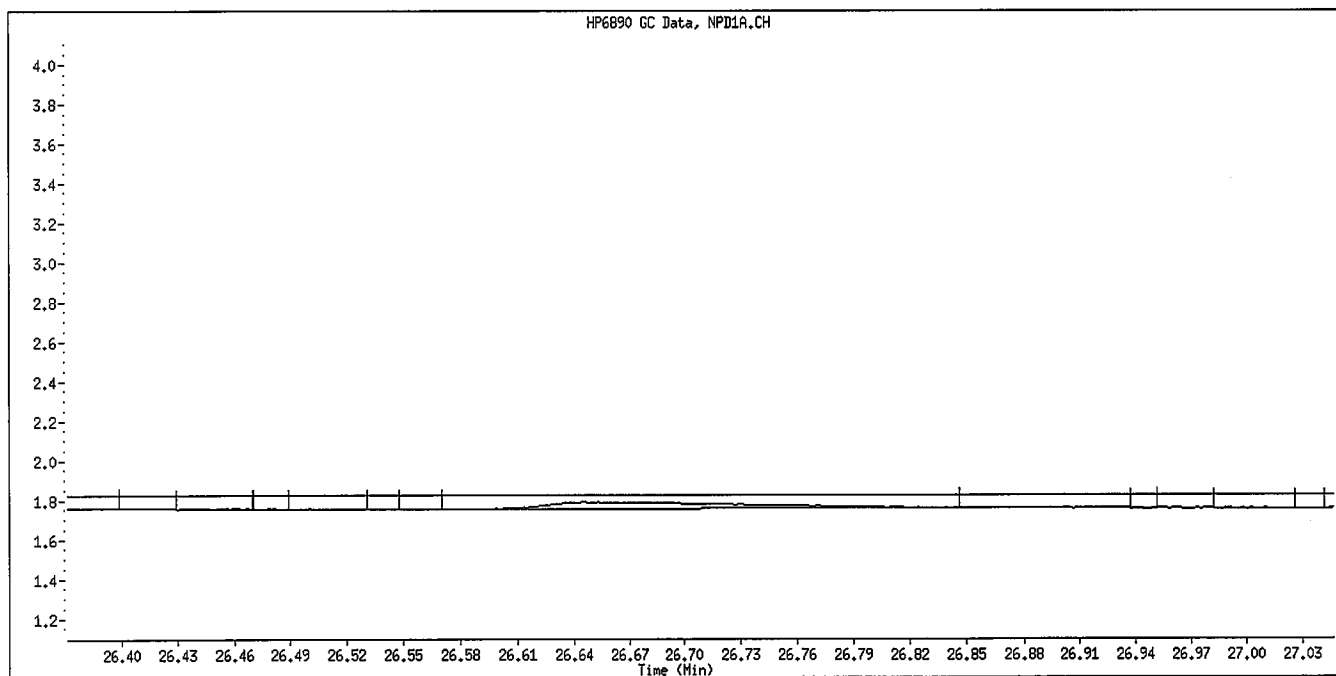
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

LF
OK

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Azinphos-methyl
CAS #:
Report Date: 08/07/2009



Original Integration

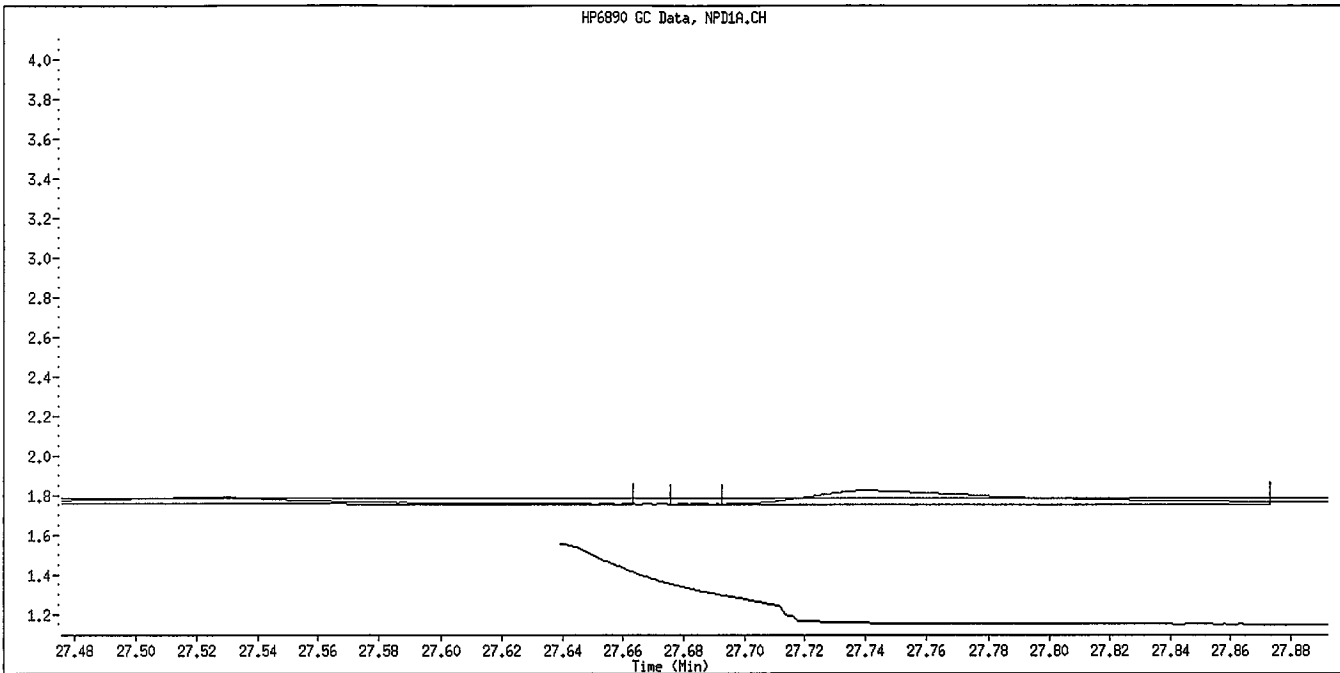


Manual Integration

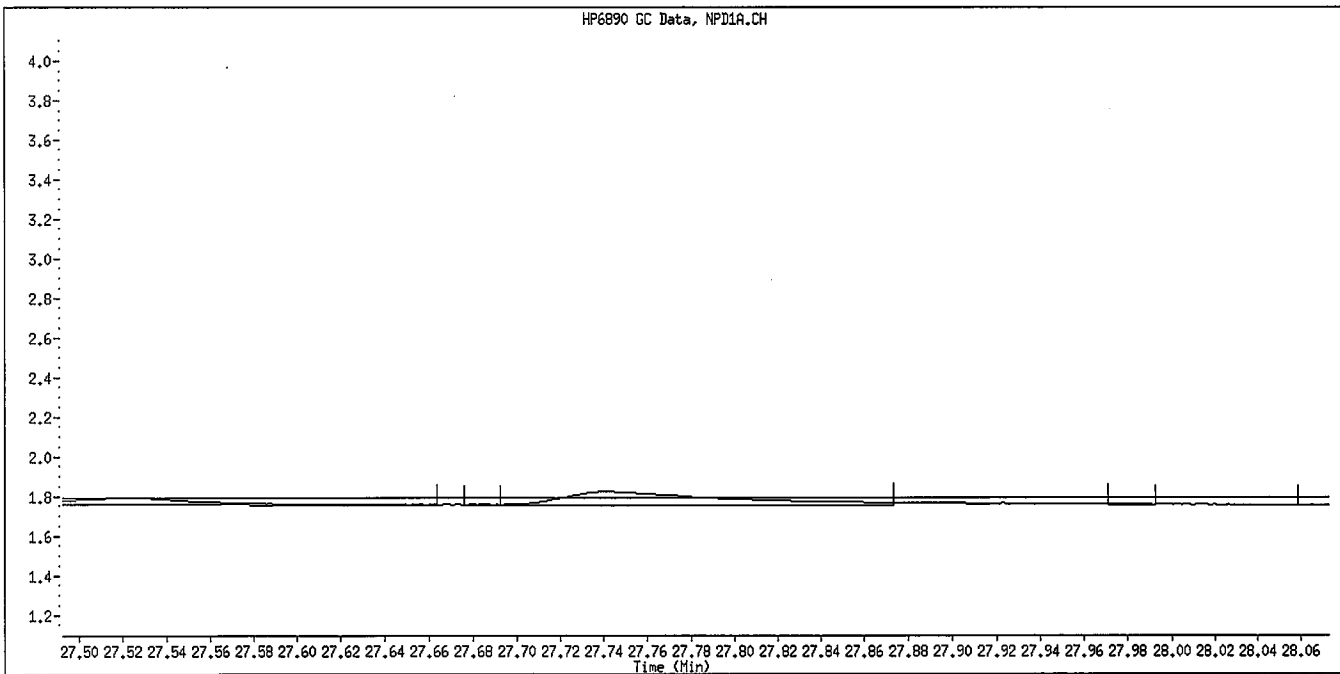
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Coumaphos
CAS #:
Report Date: 08/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

williamst

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\010F1001.D
 Lab Smp Id: 8141 SS GSV87609 Client Smp ID: 8141 SS GSV87609
 Inj Date : 06-AUG-2009 19:10
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 SS GSV87609
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Meth Date : 07-Aug-2009 13:45 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 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	4.268	4.267	(0.311)	1843004	2.00000	2.240
2 Dichlorvos	5.867	5.865	(0.428)	743410	2.00000	2.036
3 Mevinphos	9.417	9.407	(0.687)	235044	2.00000	1.556
§ 4 Chlormefos	9.499	9.502	(0.693)	1161313	2.00000	1.736
5 Thionazin	12.624	12.625	(0.920)	1118392	2.00000	2.235
6 Demeton-O	12.875	12.876	(0.939)	820859	0.65000	2.025
7 Ethoprop	13.208	13.205	(0.963)	891351	2.00000	1.994
8 Naled	13.484	13.482	(0.983)	276089	2.00000	1.706
* 9 Tributylphosphate	13.717	13.714	(1.000)	867584	2.00000	
10 Sulfotepp	14.143	14.143	(1.031)	1336752	2.00000	1.968
11 Phorate	14.226	14.227	(1.037)	730629	2.00000	1.634
12 Dimethoate	14.431	14.416	(1.052)	875203	2.00000	2.182
13 Demeton-S	14.693	14.682	(1.071)	70754	1.36000	0.2056
14 Simazine	14.788	14.783	(1.078)	366944	2.00000	2.469
15 Atrazine	15.000	14.997	(1.094)	417241	2.00000	2.161
16 propazine	15.181	15.178	(1.107)	419363	2.00000	2.193
17 Disulfoton	15.867	15.866	(0.586)	846309	2.00000	1.974
18 Diazinon	15.933	15.934	(0.588)	872162	2.00000	1.867
19 Methyl Parathion	16.833	16.829	(0.622)	657192	2.00000	1.970
20 Ronnel	17.458	17.456	(0.645)	726001	2.00000	2.064
21 Malathion	18.135	18.134	(0.670)	594268	2.00000	1.936
22 Fenthion	18.287	18.284	(0.675)	680633	2.00000	1.906
23 Parathion	18.392	18.392	(0.679)	735997	2.00000	2.060
24 Chlorpyrifos	18.450	18.451	(0.681)	860875	2.00000	1.977
25 Trichloronate	18.959	18.958	(0.700)	791359	2.00000	1.809
26 Anilazine	19.352	19.345	(0.715)	33556	2.00000	1.250
27 Merphos-A (Merphos)	19.802	19.804	(0.731)	58433	2.00000	0.2980
28 Tetrachlorvinphos (Stirophos)	20.536	20.532	(0.758)	455941	2.00000	1.889
29 Tokuthion	21.279	21.278	(0.786)	808333	2.00000	1.943
30 Merphos-B (Merphos Oxone)	21.536	21.536	(0.795)	710217	2.00000	11.88 (A)
31 Carbophenothion-methyl	22.261	22.254	(0.822)	368687	2.00000	1.330
32 Fensulfothion	22.488	22.465	(0.831)	491939	2.00000	1.966
33 Bolstar / Famphur	23.631	23.627	(0.873)	1504693	4.00000	4.213

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	23.951	23.947	(0.885)	712364	2.00000	2.116
\$ 35 Triphenyl phosphate	25.278	25.270	(0.934)	494576	2.00000	1.848
36 Phosmet	25.773	25.769	(0.952)	619156	2.00000	2.272
37 EPN	26.102	26.097	(0.964)	765092	2.00000	2.210
38 Azinphos-methyl	26.589	26.584	(0.982)	466871	2.00000	1.850
* 39 TOCP	27.076	27.076	(1.000)	613099	2.00000	
40 Azinphos-ethyl	27.176	27.172	(1.004)	654822	2.00000	2.055
41 Coumaphos	27.701	27.694	(1.023)	508925	2.00000	1.937
M 42 Total Demeton				891613	2.00000	2.231
M 43 Merphos				768650	2.00000	1.898

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i
 Lab File ID: 010F1001.D
 Lab Smp Id: 8141 SS GSV87609
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806091.B\8141A-1.m
 Misc Info:

Calibration Date: 07-AUG-2009
 Calibration Time: 06:42
 Client Smp ID: 8141 SS GSV8760
 Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	1034306	517153	2068612	867584	-16.12
39 TOCP	695324	347662	1390648	613099	-11.83

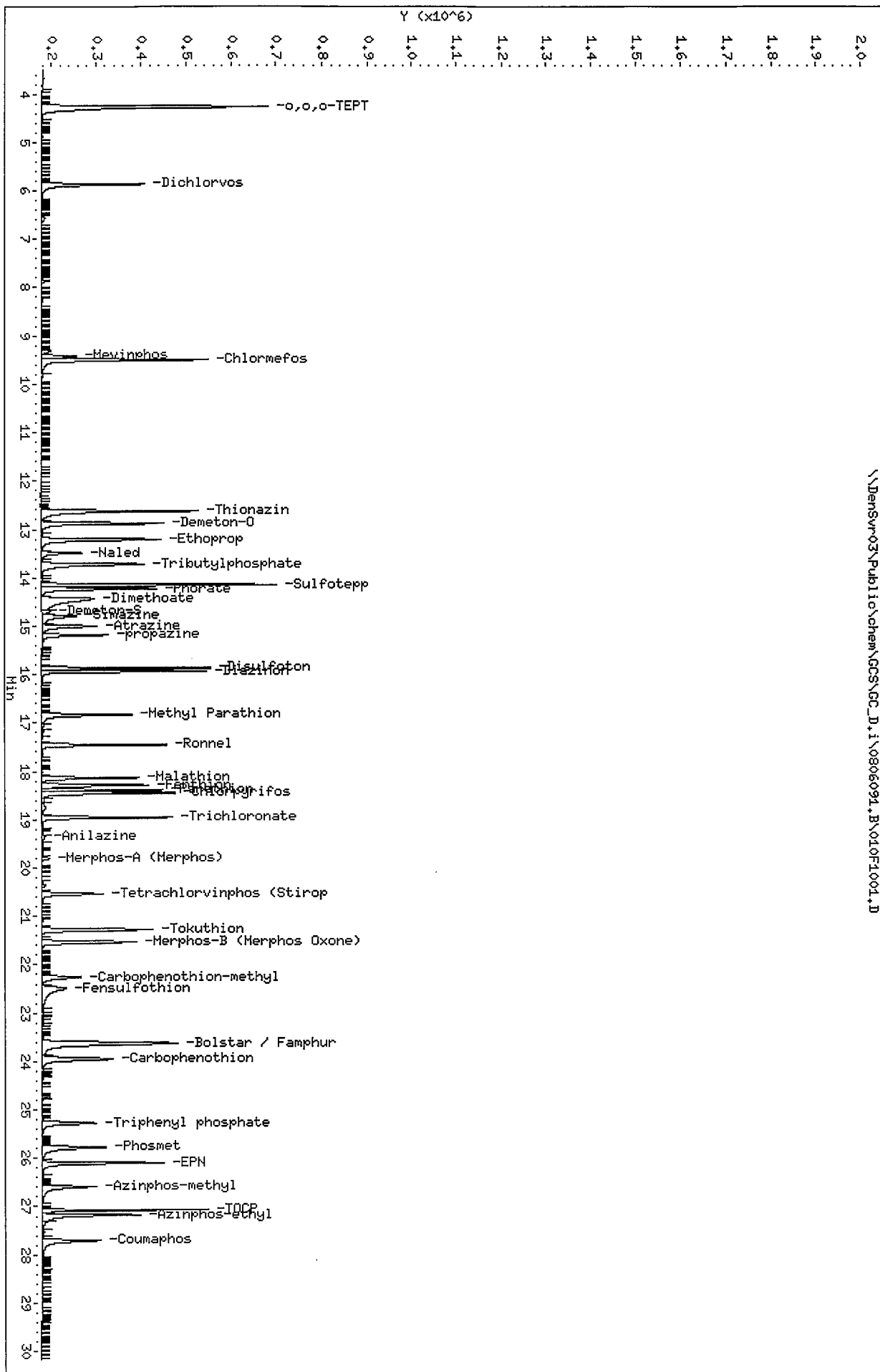
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	13.70	13.20	14.20	13.72	0.13
39 TOCP	27.08	26.58	27.58	27.08	-0.00

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: \\Densur03\Public\chem\GCSS\GC_D.1\0806091.B\010F1001.D
 Date : 06-AUG-2009 19:10
 Client ID: 8141 SS GSV87609
 Sample Info: 8141 SS GSV87609
 Column phase: RTX-1MS

Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32

\\Densur03\Public\chem\GCSS\GC_D.1\0806091.B\010F1001.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\003F0301.D
 Lab Smp Id: 8141 L7 GSV82609 Client Smp ID: 8141 L7 GSV82609
 Inj Date : 06-AUG-2009 14:56
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L7 GSV82609
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:43 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 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	AMOUNTS					ON-COL (ug/mL)
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	
1 o,o,o-TEPT	6.790	6.758	(0.419)	4502240	5.00000	4.256
2 Dichlorvos	8.964	8.952	(0.554)	2218734	5.00000	4.705
\$ 3 Chlormefos	12.887	12.885	(0.796)	3329933	5.00000	4.827
4 Mevinphos	13.005	13.006	(0.803)	1418878	5.00000	4.842
5 Demeton-O	15.939	15.939	(0.985)	687790	1.62500	1.589
6 Thionazin	16.067	16.067	(0.992)	2959832	5.00000	4.615
* 7 Tributylphosphate	16.190	16.193	(1.000)	1131223	2.00000	
8 Ethoprop	16.333	16.332	(1.009)	2583304	5.00000	4.705
9 Naled	16.921	16.921	(1.045)	1131291	5.00000	5.030 (A)
10 Sulfotepp	17.234	17.234	(1.064)	4270412	5.00000	4.519
11 Phorate	17.269	17.268	(1.067)	2084335	5.00000	4.361
12 Demeton-S	17.961	17.962	(1.109)	1474470	3.40000	3.394
13 Simazine	18.366	18.368	(1.134)	674577	5.00000	5.004 (A)
14 Atrazine / Propazine	18.434	18.434	(1.139)	2608160	10.0000	10.04 (A)
15 Dimethoate	18.566	18.569	(1.147)	2698083	5.00000	4.812
16 Diazinon	18.966	18.967	(1.171)	2467752	5.00000	4.401
17 Disulfoton	19.229	19.231	(1.188)	2617710	5.00000	4.622
18 Methyl Parathion	21.131	21.132	(0.736)	1936768	5.00000	4.722 (A)
19 Ronnel	21.220	21.222	(0.739)	2282209	5.00000	4.726
20 Malathion	22.495	22.492	(0.784)	1824966	5.00000	4.653
21 Chlorpyrifos	22.646	22.644	(0.789)	2210724	5.00000	4.848
22 Trichloronate	22.819	22.819	(0.795)	2890038	5.00000	5.071 (A)
23 Parathion	22.866	22.866	(0.797)	2140679	5.00000	4.818
24 Fenthion	22.940	22.942	(0.799)	2341329	5.00000	4.762
25 Merphos-A (Merphos)	23.475	23.472	(0.818)	1728719	5.00000	4.846
26 Anilazine	24.446	24.451	(0.852)	195793	5.00000	5.229 (A)
27 Tetrachlorvinphos (stirophos)	25.869	25.869	(0.901)	1682420	5.00000	5.160 (A)
28 Tokuthion	26.044	26.043	(0.907)	2649007	5.00000	5.009 (A)
29 Merphos-B (Merphos oxone)	26.174	26.176	(0.912)	547067	5.00000	4.927
30 Carbophenothion methyl	26.998	26.999	(0.941)	1930580	5.00000	5.222 (A)
31 Fensulfothion	27.236	27.237	(0.949)	1541611	5.00000	4.702
32 Bolstar	27.347	27.347	(0.953)	2235624	5.00000	4.416
33 Carbophenothion	27.459	27.460	(0.957)	2095716	5.00000	4.953

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.644	27.644	(0.963)	1943080	5.00000	5.026 (A)
\$ 35 Triphenyl phosphate	27.933	27.932	(0.973)	1616846	5.00000	4.469
36 EPN	28.241	28.240	(0.984)	1898338	5.00000	4.574
37 Phosmet	28.367	28.366	(0.988)	1655568	5.00000	4.808
* 38 TOCP	28.705	28.705	(1.000)	836128	2.00000	
39 Azinphos-methyl	28.816	28.816	(1.004)	1429834	5.00000	4.967
40 Azinphos-ethyl	29.128	29.127	(1.015)	1454184	5.00000	4.795
41 Coumaphos	29.454	29.453	(1.026)	1373774	5.00000	4.979
M 42 Total Demeton				2162260	5.00000	4.984
M 43 Merphos				2275786	5.00000	4.636 (A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i
 Lab File ID: 003F0301.D
 Lab Smp Id: 8141 L7 GSV82609
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Misc Info:

Calibration Date: 06-AUG-2009
 Calibration Time: 19:10
 Client Smp ID: 8141 L7 GSV8260
 Level:
 Sample Type:

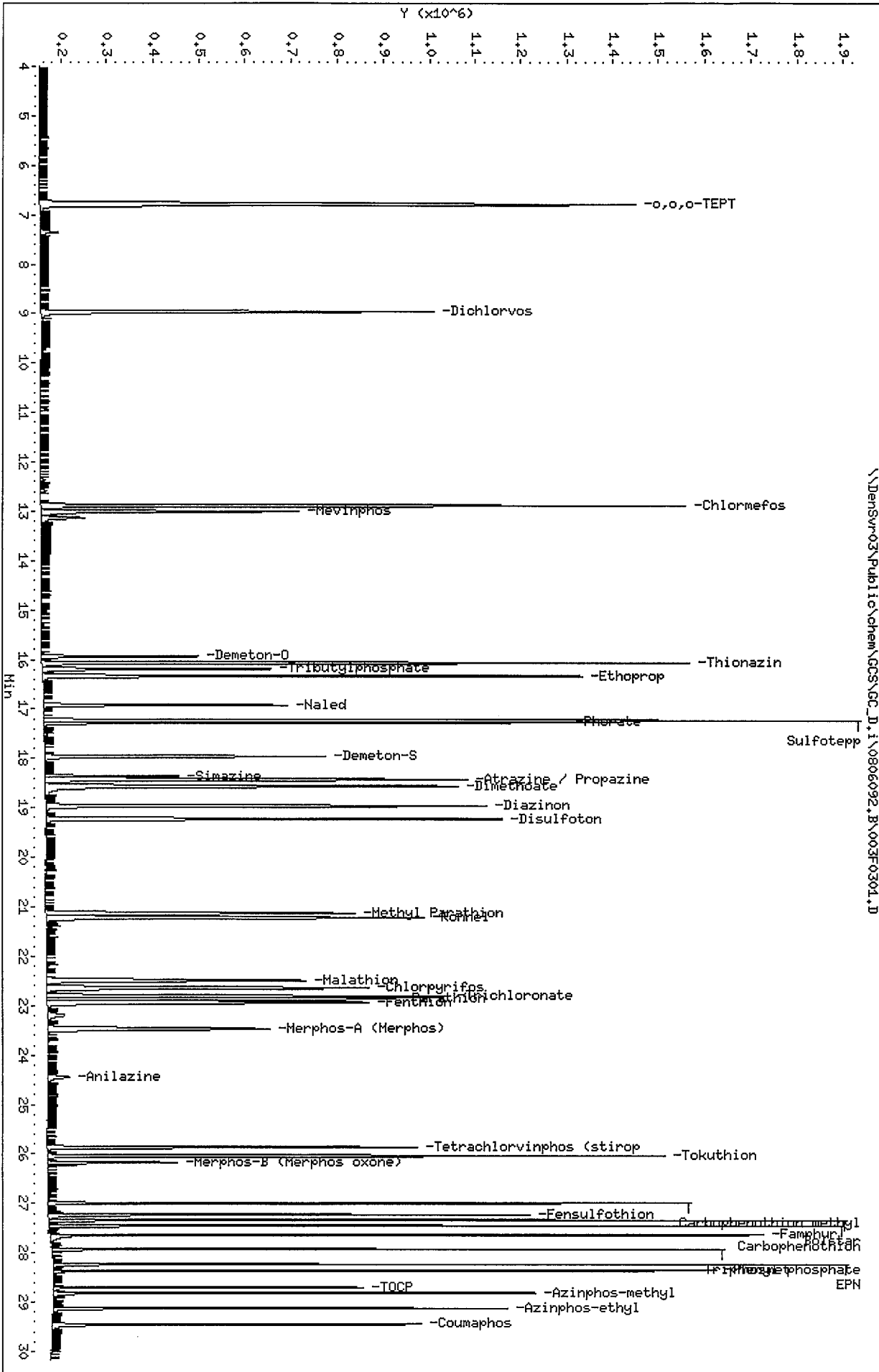
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	989795	494898	1979590	1131223	14.29
38 TOCP	732545	366273	1465090	836128	14.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.19	-0.02
38 TOCP	28.70	28.20	29.20	28.71	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_D.i\0806092.B\003F0301.D
 Date : 06-AUG-2009 14:56
 Client ID: 8141 L7 GSV82609
 Sample Info: 8141 L7 GSV82609
 Column phase: RTX-OPPest

Instrument: GC_D.i
 Operator: HPK/TLM
 Column diameter: 0.32



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\004F0401.D
 Lab Smp Id: 8141 L6 GSV87009 Client Smp ID: 8141 L6 GSV87009
 Inj Date : 06-AUG-2009 15:32
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L6 GSV87009
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:43 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 14:56 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	6.760	6.758	(0.417)	3613463	4.00000	3.720
2 Dichlorvos	8.953	8.952	(0.553)	1768273	4.00000	4.084
\$ 3 Chlormefos	12.886	12.885	(0.796)	2624051	4.00000	4.132
4 Mevinphos	13.004	13.006	(0.803)	1096662	4.00000	4.082
5 Demeton-O	15.939	15.939	(0.984)	520374	1.30000	1.309
6 Thionazin	16.067	16.067	(0.992)	2340635	4.00000	3.974
* 7 Tributylphosphate	16.192	16.193	(1.000)	1038841	2.00000	
8 Ethoprop	16.332	16.332	(1.009)	2051405	4.00000	4.045
9 Naled	16.921	16.921	(1.045)	787967	4.00000	3.918
10 Sulfotepp	17.233	17.234	(1.064)	3390840	4.00000	3.907
11 Phorate	17.269	17.268	(1.066)	1624819	4.00000	3.702
12 Demeton-S	17.961	17.962	(1.109)	1151737	2.72000	2.887
13 Simazine	18.367	18.368	(1.134)	492868	4.00000	4.040
14 Atrazine / Propazine	18.432	18.434	(1.138)	1954099	8.00000	8.196 (A)
15 Dimethoate	18.566	18.569	(1.147)	2052825	4.00000	3.997
16 Diazinon	18.967	18.967	(1.171)	1940014	4.00000	3.768
17 Disulfoton	19.229	19.231	(1.188)	2045262	4.00000	3.933
18 Methyl Parathion	21.130	21.132	(0.736)	1488025	4.00000	4.044 (A)
19 Ronnel	21.221	21.222	(0.739)	1735137	4.00000	3.993
20 Malathion	22.494	22.492	(0.784)	1406900	4.00000	3.992
21 Chlorpyrifos	22.644	22.644	(0.789)	1671357	4.00000	4.079
22 Trichloronate	22.819	22.819	(0.795)	2093978	4.00000	4.095
23 Parathion	22.865	22.866	(0.797)	1741701	4.00000	4.252
24 Fenthion	22.942	22.942	(0.799)	1789955	4.00000	4.042
25 Merphos-A (Merphos)	23.473	23.472	(0.818)	1339983	4.00000	4.192
26 Anilazine	24.451	24.451	(0.852)	129151	4.00000	3.867 (M)
27 Tetrachlorvinphos (stirophos)	25.870	25.869	(0.901)	1220938	4.00000	4.177
28 Tokuthion	26.046	26.043	(0.907)	2002622	4.00000	4.208
29 Merphos-B (Merphos oxone)	26.175	26.176	(0.912)	439795	4.00000	4.024
30 Carbophenothion methyl	26.999	26.999	(0.941)	1444721	4.00000	4.343
31 Fensulfothion	27.237	27.237	(0.949)	1195644	4.00000	4.065
32 Bolstar	27.347	27.347	(0.953)	1755208	4.00000	3.853
33 Carbophenothion	27.460	27.460	(0.957)	1586342	4.00000	4.167

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.644	27.644	(0.963)	1480451	4.00000	4.255
\$ 35 Triphenyl phosphate	27.932	27.932	(0.973)	1280032	4.00000	3.932
36 EPN	28.239	28.240	(0.984)	1483979	4.00000	3.974
37 Phosmet	28.366	28.366	(0.988)	1249688	4.00000	4.042
* 38 TOCP	28.705	28.705	(1.000)	752380	2.00000	
39 Azinphos-methyl	28.816	28.816	(1.004)	1072140	4.00000	4.148
40 Azinphos-ethyl	29.127	29.127	(1.015)	1110566	4.00000	4.069
41 Coumaphos	29.452	29.453	(1.026)	1021332	4.00000	4.121
M 42 Total Demeton				1672111	4.00000	4.196
M 43 Merphos				1779778	4.00000	4.029 (A)

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_D.i
 Lab File ID: 004F0401.D
 Lab Smp Id: 8141 L6 GSV87009
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Misc Info:

Calibration Date: 06-AUG-2009
 Calibration Time: 19:10
 Client Smp ID: 8141 L6 GSV8700
 Level:
 Sample Type:

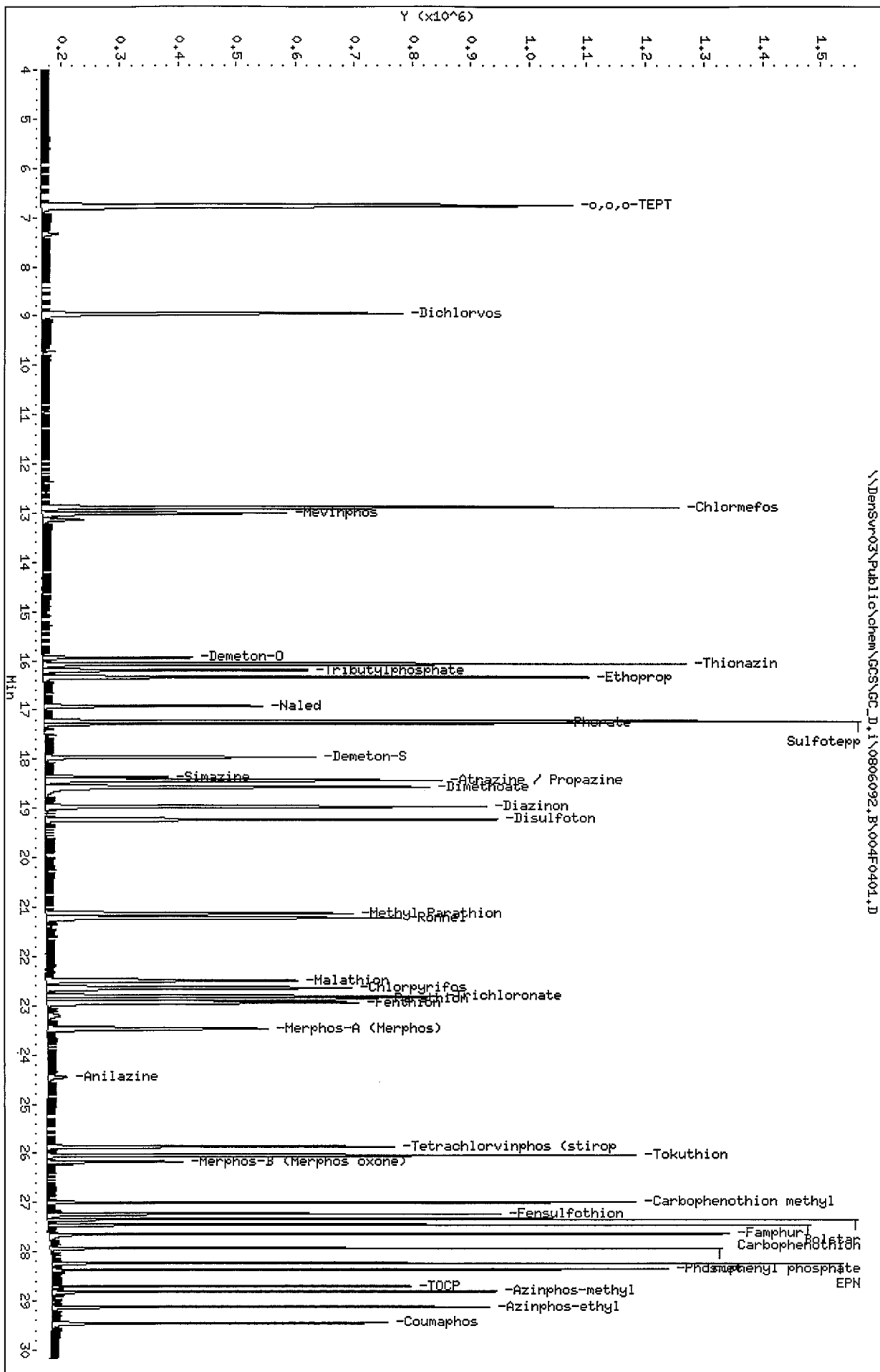
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	989795	494898	1979590	1038841	4.96
38 TOCP	732545	366273	1465090	752380	2.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.19	-0.01
38 TOCP	28.70	28.20	29.20	28.71	0.00

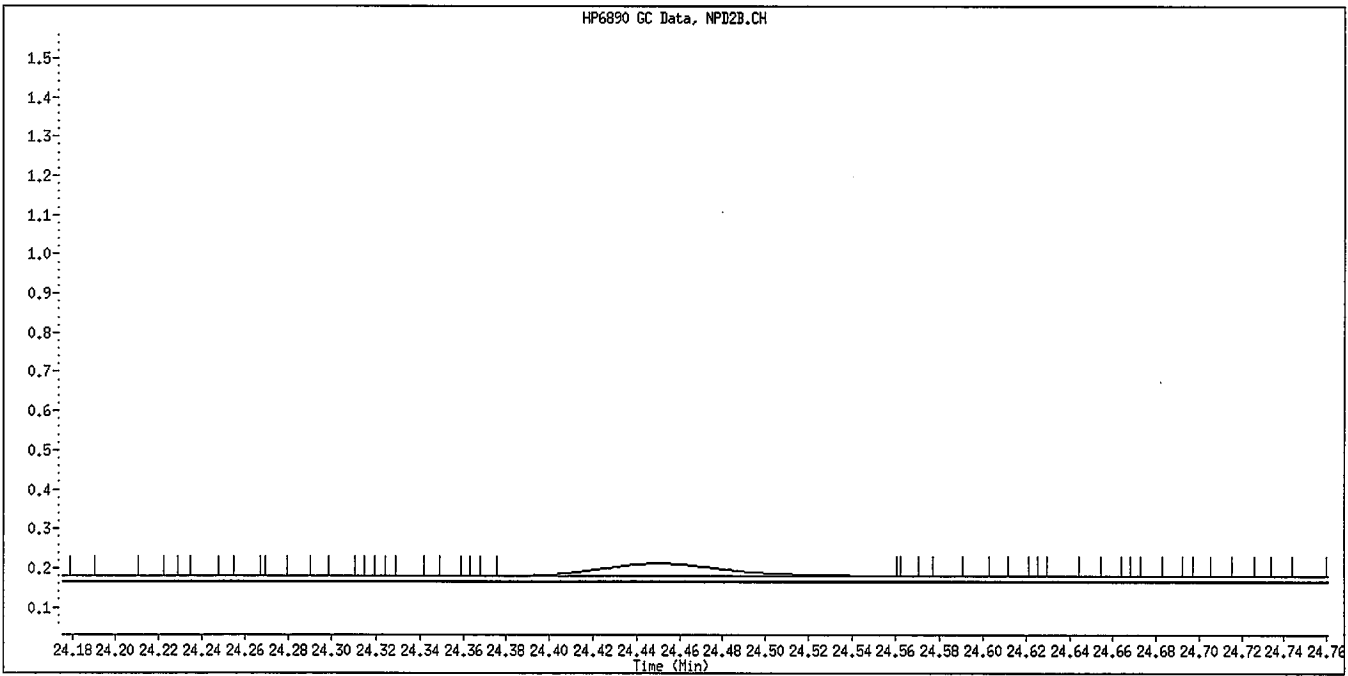
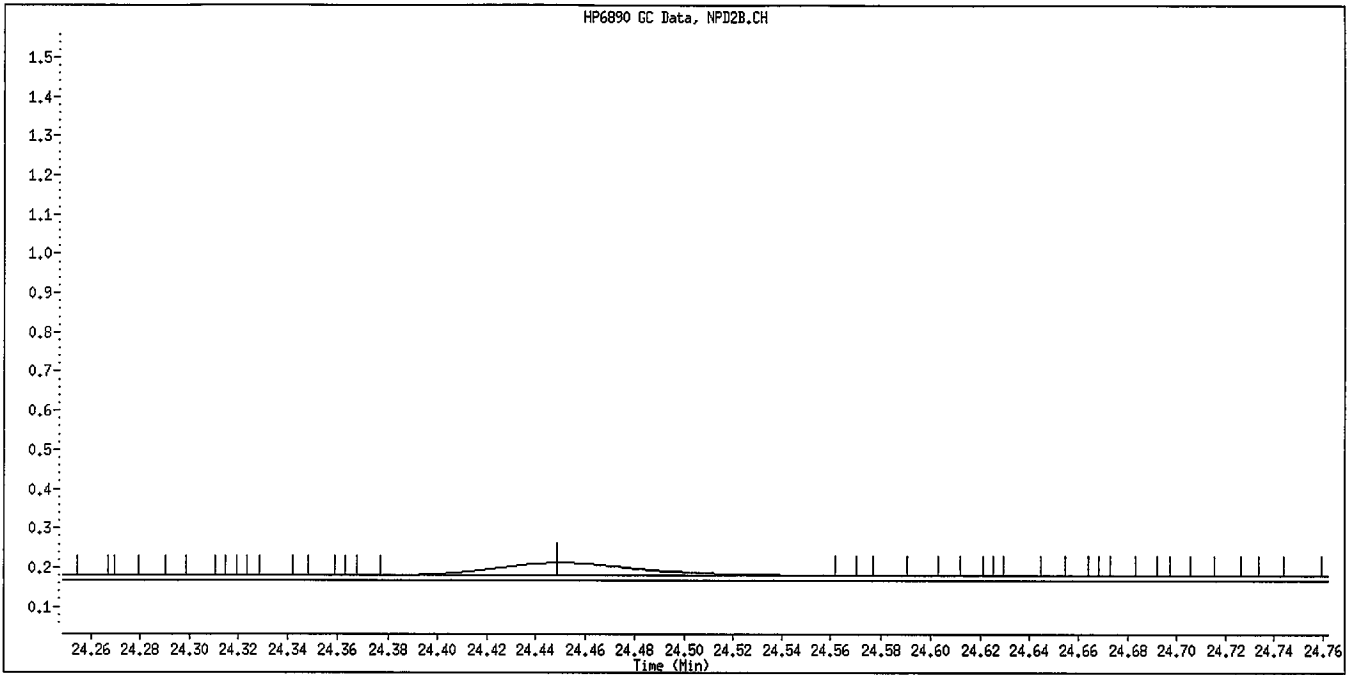
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Densur03\Public\chem\GCs\GC_D.1\0806092.B\004F0401.D
 Date: 06-AUG-2009 15:32
 Client ID: 8141 L6 GSV87009
 Sample Info: 8141 L6 GSV87009
 Column phase: RTX-QPest

Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32



Data File Name: 004F0401.D
Inj. Date and Time: 06-AUG-2009 15:32
Instrument ID: GC_D.i
Client ID: 8141 L6 GSV87009
Compound Name: Anilazine
CAS #:
Report Date: 08/07/2009



Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

LA-826

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\005F0501.D
 Lab Smp Id: 8141 L5 GSV87109 Client Smp ID: 8141 L5 GSV87109
 Inj Date : 06-AUG-2009 16:08
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L5 GSV87109
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:43 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 15:32 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	6.758	6.758	(0.417)	2799704	3.00000	2.781
2 Dichlorvos	8.952	8.952	(0.553)	1333315	3.00000	2.971
3 Chlormefos	12.884	12.885	(0.796)	2008587	3.00000	3.033
4 Mevinphos	13.005	13.006	(0.803)	847872	3.00000	3.057
5 Demeton-O	15.939	15.939	(0.984)	412863	0.97500	1.002
6 Thionazin	16.067	16.067	(0.992)	1827286	3.00000	2.994
* 7 Tributylphosphate	16.193	16.193	(1.000)	1076666	2.00000	
8 Ethoprop	16.333	16.332	(1.009)	1622717	3.00000	3.047
9 Naled	16.920	16.921	(1.045)	617906	3.00000	3.041
10 Sulfotepp	17.234	17.234	(1.064)	2658508	3.00000	2.956
11 Phorate	17.269	17.268	(1.066)	1282443	3.00000	2.819
12 Demeton-S	17.962	17.962	(1.109)	883006	2.04000	2.136
13 Simazine	18.368	18.368	(1.134)	364617	3.00000	2.966
14 Atrazine / Propazine	18.434	18.434	(1.138)	1477699	6.00000	5.980 (A)
15 Dimethoate	18.569	18.569	(1.147)	1616390	3.00000	3.051
16 Diazinon	18.967	18.967	(1.171)	1534143	3.00000	2.875
17 Disulfoton	19.230	19.231	(1.188)	1604334	3.00000	2.976
18 Methyl Parathion	21.131	21.132	(0.736)	1163940	3.00000	3.065 (A)
19 Ronnel	21.222	21.222	(0.739)	1338480	3.00000	2.963
20 Malathion	22.492	22.492	(0.784)	1103657	3.00000	3.022
21 Chlorpyrifos	22.644	22.644	(0.789)	1290170	3.00000	3.040
22 Trichloronate	22.819	22.819	(0.795)	1622974	3.00000	3.070
23 Parathion	22.865	22.866	(0.797)	1339063	3.00000	2.965
24 Fenthion	22.941	22.942	(0.799)	1408001	3.00000	3.053
25 Merphos-A (Merphos)	23.472	23.472	(0.818)	1003697	3.00000	3.056
26 Anilazine	24.450	24.451	(0.852)	101616	3.00000	2.958
27 Tetrachlorvinphos (stirophos)	25.869	25.869	(0.901)	925221	3.00000	3.066
28 Tokuthion	26.043	26.043	(0.907)	1535968	3.00000	3.106
29 Merphos-B (Merphos oxone)	26.175	26.176	(0.912)	395538	3.00000	3.117
30 Carbophenothion methyl	26.999	26.999	(0.941)	1108708	3.00000	3.207
31 Fensulfothion	27.237	27.237	(0.949)	932760	3.00000	3.073
32 Bolstar	27.346	27.347	(0.953)	1385729	3.00000	2.927
33 Carbophenothion	27.459	27.460	(0.957)	1220101	3.00000	3.083

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.644	27.644	(0.963)	1132909	3.00000	3.133
\$ 35 Triphenyl phosphate	27.932	27.932	(0.973)	1016178	3.00000	3.003
36 EPN	28.239	28.240	(0.984)	1171469	3.00000	3.018
37 Phosmet	28.365	28.366	(0.988)	974935	3.00000	3.048
* 38 TOCP	28.704	28.705	(1.000)	781995	2.00000	
39 Azinphos-methyl	28.815	28.816	(1.004)	823806	3.00000	3.081
40 Azinphos-ethyl	29.127	29.127	(1.015)	875242	3.00000	3.086
41 Coumaphos	29.453	29.453	(1.026)	780746	3.00000	3.043
M 42 Total Demeton				1295869	3.00000	3.138
M 43 Merphos				1399235	3.00000	3.046 (A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i
 Lab File ID: 005F0501.D
 Lab Smp Id: 8141 L5 GSV87109
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Misc Info:

Calibration Date: 06-AUG-2009
 Calibration Time: 19:10
 Client Smp ID: 8141 L5 GSV8710
 Level:
 Sample Type:

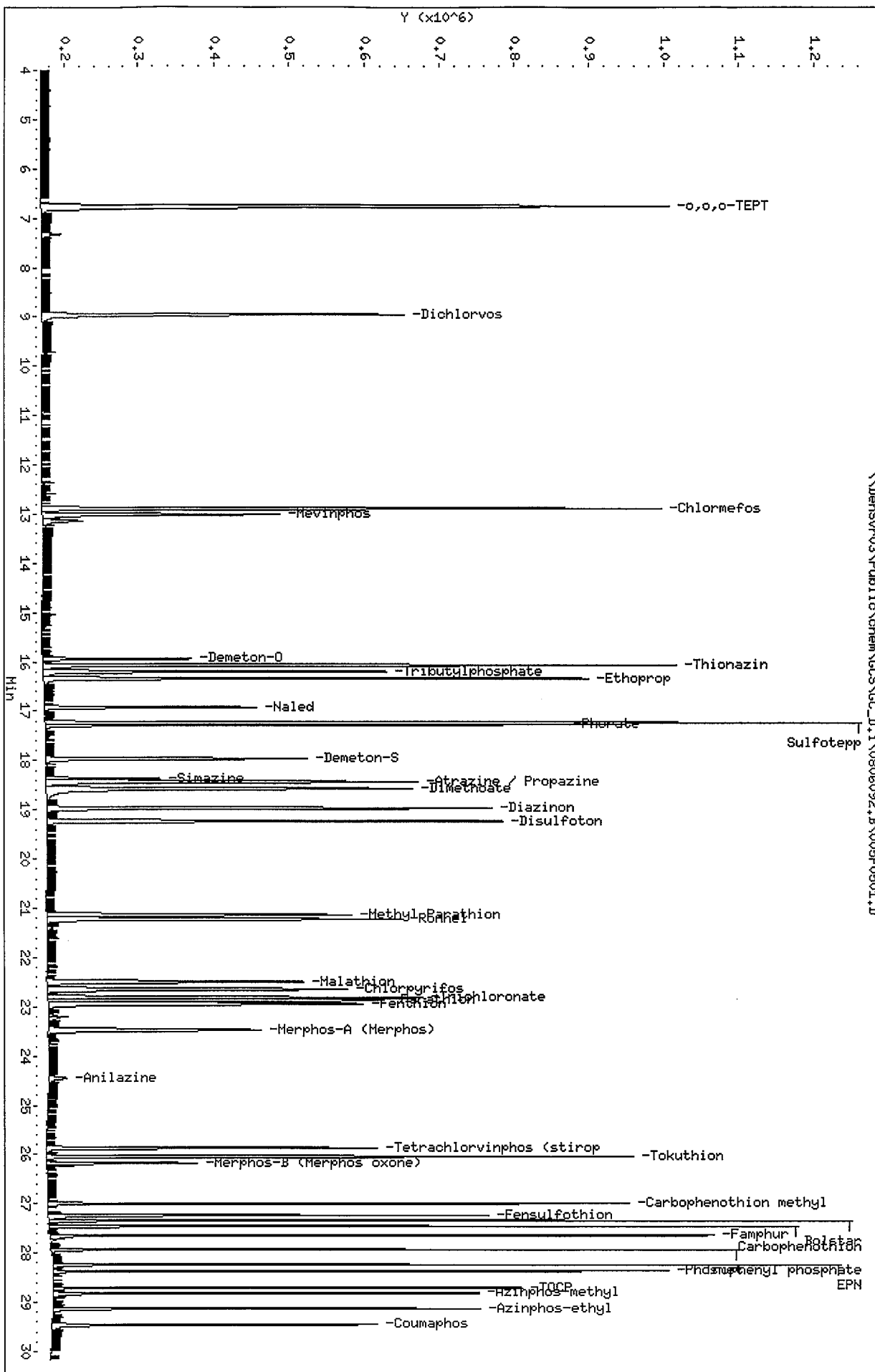
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	989795	494898	1979590	1076666	8.78
38 TOCP	732545	366273	1465090	781995	6.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.19	-0.01
38 TOCP	28.70	28.20	29.20	28.70	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: \\Densv03\Public\chem\GC5\GC_D,1\0806092.B\005F0501.D
 Date: 06-AUG-2009 16:08
 Client ID: 8144 L5 GSV87109
 Sample Info: 8144 L5 GSV87109
 Column phase: RTX-QPest

Instrument: GC.D.1
 Operator: HPK/TLM
 Column diameter: 0.32



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\006F0601.D
 Lab Smp Id: 8141 L4 GSV87209 Client Smp ID: 8141 L4 GSV87209
 Inj Date : 06-AUG-2009 16:45
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L4 GSV87209
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:43 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 16:08 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					AMOUNTS	
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	6.762	6.758	(0.418)	1914198	2.00000	2.014
2 Dichlorvos	8.958	8.952	(0.553)	874015	2.00000	2.064
\$ 3 Chlormefos	12.887	12.885	(0.796)	1328045	2.00000	2.103
4 Mevinphos	13.009	13.006	(0.803)	555210	2.00000	2.135
5 Demeton-O	15.940	15.939	(0.984)	271398	0.65000	0.6980
6 Thionazin	16.069	16.067	(0.992)	1221359	2.00000	2.120
* 7 Tributylphosphate	16.195	16.193	(1.000)	1016126	2.00000	
8 Ethoprop	16.335	16.332	(1.009)	1095403	2.00000	2.130
9 Naled	16.922	16.921	(1.045)	373106	2.00000	2.032
10 Sulfotepp	17.235	17.234	(1.064)	1787767	2.00000	2.106
11 Phorate	17.268	17.268	(1.066)	854395	2.00000	1.990
12 Demeton-S	17.965	17.962	(1.109)	565529	1.36000	1.449
13 Simazine	18.371	18.368	(1.134)	217050	2.00000	1.977
14 Atrazine / Propazine	18.435	18.434	(1.138)	954882	4.00000	4.094
15 Dimethoate	18.574	18.569	(1.147)	1037511	2.00000	2.094
16 Diazinon	18.969	18.967	(1.171)	1036618	2.00000	2.058
17 Disulfoton	19.231	19.231	(1.188)	1063966	2.00000	2.092
18 Methyl Parathion	21.134	21.132	(0.736)	753320	2.00000	2.090 (A)
19 Ronnel	21.221	21.222	(0.739)	868895	2.00000	1.999
20 Malathion	22.495	22.492	(0.784)	728530	2.00000	2.084
21 Chlorpyrifos	22.645	22.644	(0.789)	832490	2.00000	2.052
22 Trichloronate	22.819	22.819	(0.795)	1021736	2.00000	2.031
23 Parathion	22.866	22.866	(0.797)	893471	2.00000	1.967
24 Fenthion	22.943	22.942	(0.799)	922040	2.00000	2.070
25 Merphos-A (Merphos)	23.475	23.472	(0.818)	631476	2.00000	2.042
26 Anilazine	24.455	24.451	(0.852)	64885	2.00000	2.006 (M)
27 Tetrachlorvinphos (stirophos)	25.870	25.869	(0.901)	576694	2.00000	2.014
28 Tokuthion	26.044	26.043	(0.907)	995028	2.00000	2.091
29 Merphos-B (Merphos oxone)	26.176	26.176	(0.912)	293170	2.00000	1.995
30 Carbophenothion methyl	27.000	26.999	(0.941)	713460	2.00000	2.144
31 Fensulfothion	27.240	27.237	(0.949)	603115	2.00000	2.094
32 Bolstar	27.347	27.347	(0.953)	934727	2.00000	2.052
33 Carbophenothion	27.460	27.460	(0.957)	792249	2.00000	2.080

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.645	27.644	(0.963)	755474	2.00000	2.171
\$ 35 Triphenyl phosphate	27.934	27.932	(0.973)	686859	2.00000	2.109
36 EPN	28.240	28.240	(0.984)	787334	2.00000	2.108
37 Phosmet	28.367	28.366	(0.988)	636769	2.00000	2.087
* 38 TOCP	28.705	28.705	(1.000)	752526	2.00000	
39 Azinphos-methyl	28.817	28.816	(1.004)	524807	2.00000	2.058
40 Azinphos-ethyl	29.129	29.127	(1.015)	585286	2.00000	2.144
41 Coumaphos	29.456	29.453	(1.026)	504566	2.00000	2.058
M 42 Total Demeton				836927	2.00000	2.148
M 43 Merphos				924646	2.00000	2.091 (A)

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_D.i
 Lab File ID: 006F0601.D
 Lab Smp Id: 8141 L4 GSV87209
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Misc Info:

Calibration Date: 06-AUG-2009
 Calibration Time: 19:10
 Client Smp ID: 8141 L4 GSV8720
 Level:
 Sample Type:

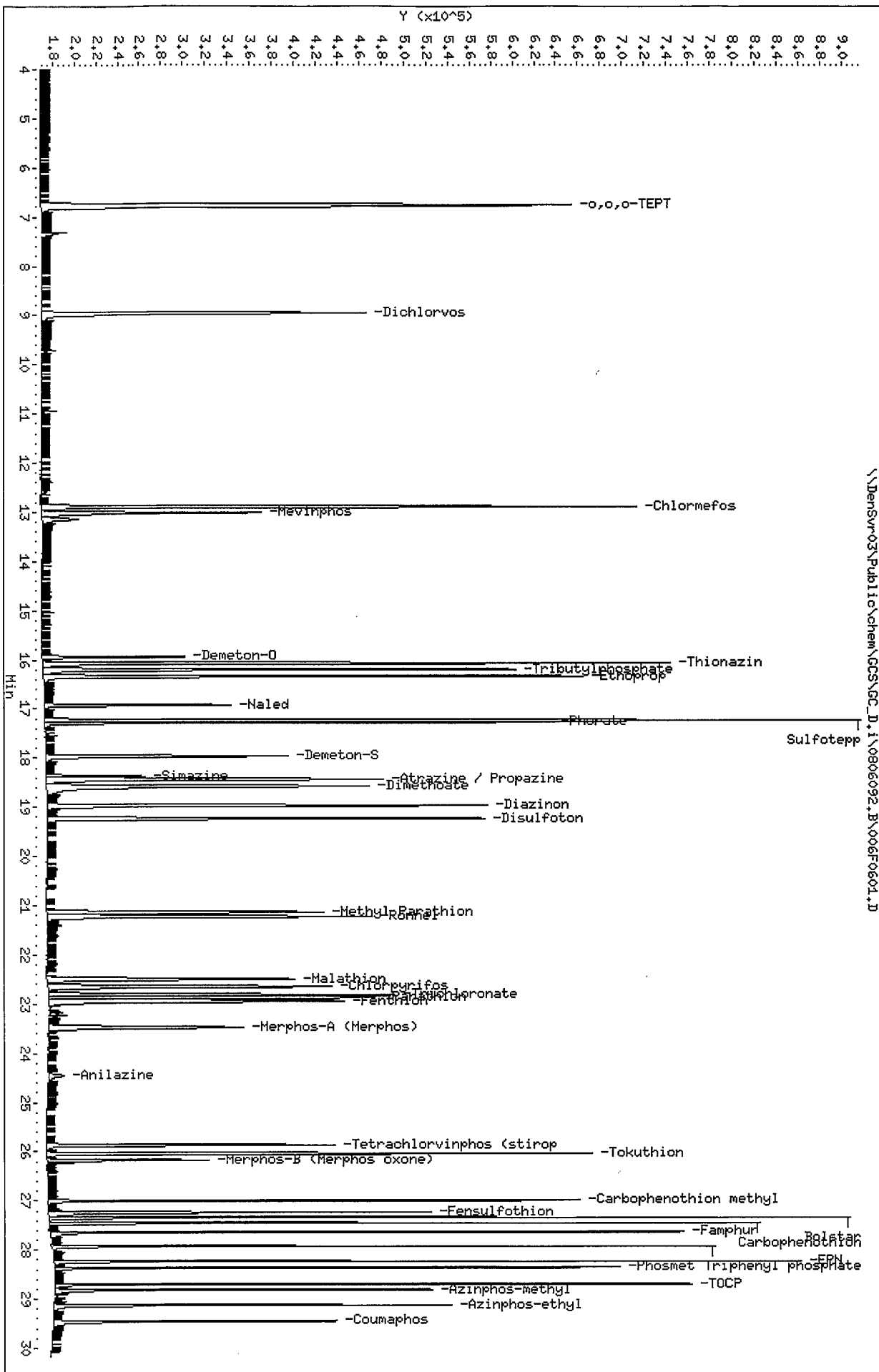
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	989795	494898	1979590	1016126	2.66
38 TOCP	732545	366273	1465090	752526	2.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.20	0.00
38 TOCP	28.70	28.20	29.20	28.71	0.00

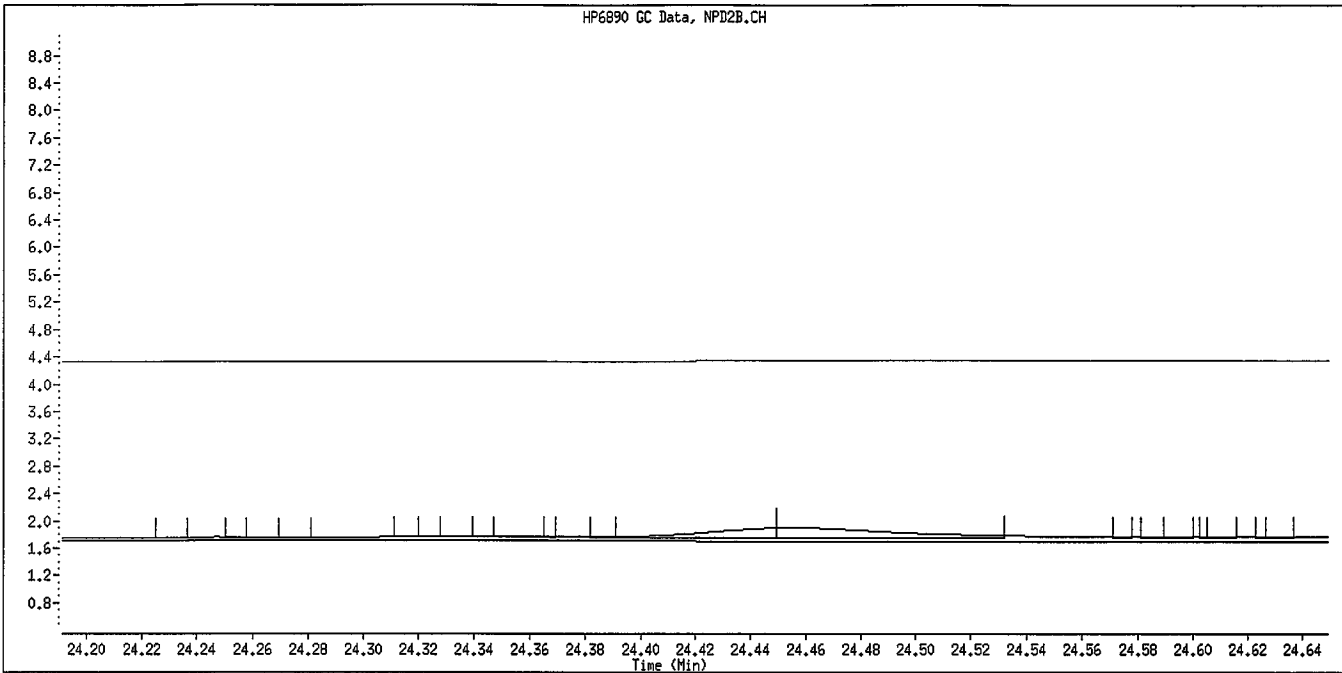
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Densvr03\Public\chem\GCS\GC_D_1\0806092.B\006F0601.D
 Date: 06-AUG-2009 16:45
 Client ID: 8141 L4 GSV87209
 Sample Info: 8141 L4 GSV87209
 Column phase: RTX-OPpest

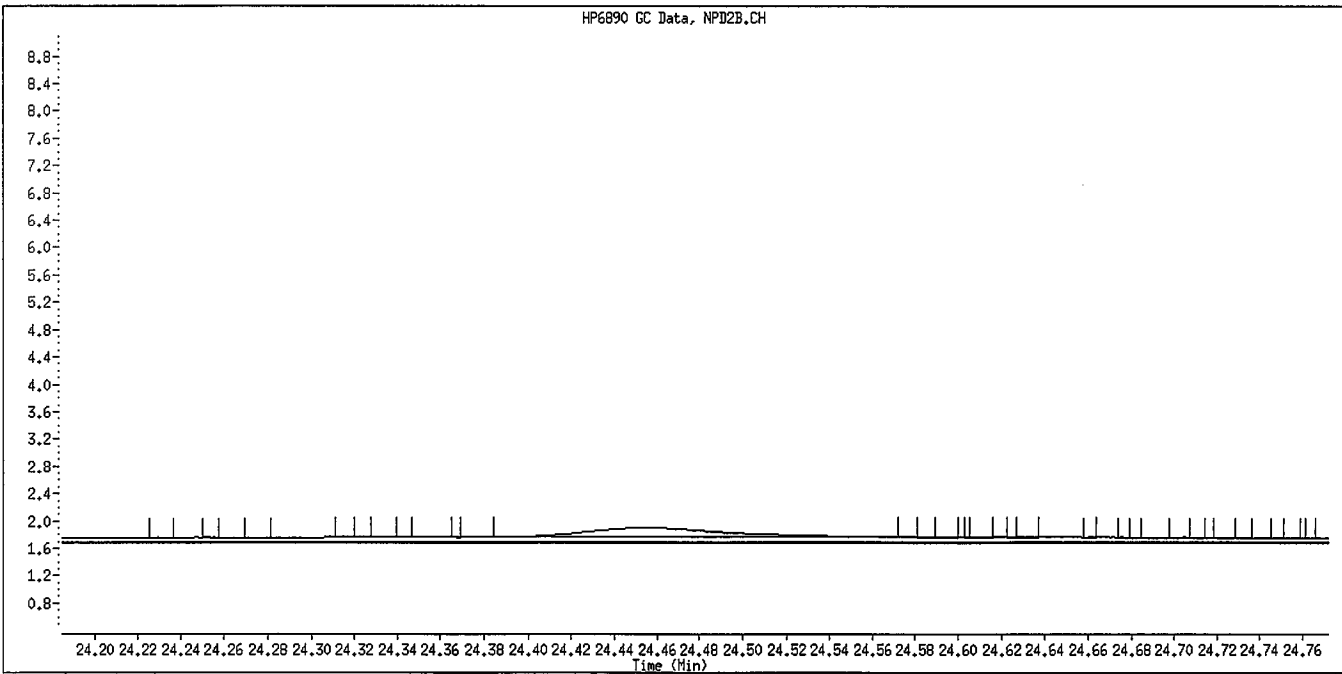
Instrument: GC.D.1
 Operator: HPK/TLM
 Column diameter: 0.32



Data File Name: 006F0601.D
Inj. Date and Time: 06-AUG-2009 16:45
Instrument ID: GC_D.i
Client ID: 8141 L4 GSV87209
Compound Name: Anilazine
CAS #:
Report Date: 08/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

1/27/11

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\007F0701.D
 Lab Smp Id: 8141 L3 GSV87309 Client Smp ID: 8141 L3 GSV87309
 Inj Date : 06-AUG-2009 17:21
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L3 GSV87309
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:43 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 16:45 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	6.759	6.758	(0.417)	965130	1.00000	1.043
2 Dichlorvos	8.955	8.952	(0.553)	409559	1.00000	0.9932
\$ 3 Chlormefos	12.886	12.885	(0.796)	643087	1.00000	1.010
4 Mevinphos	13.013	13.006	(0.803)	249277	1.00000	1.009
5 Demeton-O	15.940	15.939	(0.984)	127811	0.32500	0.3377
6 Thionazin	16.070	16.067	(0.992)	594152	1.00000	1.059
* 7 Tributylphosphate	16.198	16.193	(1.000)	989216	2.00000	
8 Ethoprop	16.338	16.332	(1.009)	555560	1.00000	1.027
9 Naled	16.925	16.921	(1.045)	159760	1.00000	1.000
10 Sulfotepp	17.236	17.234	(1.064)	899443	1.00000	1.088
11 Phorate	17.269	17.268	(1.066)	418518	1.00000	1.001
12 Demeton-S	17.970	17.962	(1.109)	277186	0.68000	0.7298
13 Simazine	18.376	18.368	(1.134)	82213	1.00000	0.9444
14 Atrazine / Propazine	18.438	18.434	(1.138)	459489	2.00000	2.024
15 Dimethoate	18.584	18.569	(1.147)	484895	1.00000	1.037
16 Diazinon	18.970	18.967	(1.171)	521338	1.00000	1.063
17 Disulfoton	19.232	19.231	(1.187)	520826	1.00000	1.052
18 Methyl Parathion	21.136	21.132	(0.736)	351856	1.00000	1.028
19 Ronnel	21.224	21.222	(0.739)	432694	1.00000	1.002
20 Malathion	22.495	22.492	(0.784)	354820	1.00000	1.040
21 Chlorpyrifos	22.646	22.644	(0.789)	394413	1.00000	0.9994
22 Trichloronate	22.821	22.819	(0.795)	455989	1.00000	0.9480
23 Parathion	22.868	22.866	(0.797)	440954	1.00000	0.9703
24 Fenthion	22.945	22.942	(0.799)	455004	1.00000	1.016
25 Merphos-A (Merphos)	23.476	23.472	(0.818)	277563	1.00000	0.9745
26 Anilazine	24.465	24.451	(0.852)	27039	1.00000	0.9154 (M)
27 Tetrachlorvinphos (stirophos)	25.873	25.869	(0.901)	256768	1.00000	0.9456
28 Tokuthion	26.046	26.043	(0.907)	475219	1.00000	1.005
29 Merphos-B (Merphos oxone)	26.177	26.176	(0.912)	174313	1.00000	0.8959
30 Carbophenothion methyl	27.001	26.999	(0.941)	335861	1.00000	1.016
31 Fensulfothion	27.245	27.237	(0.949)	280688	1.00000	1.028
32 Bolstar	27.348	27.347	(0.953)	476810	1.00000	1.053
33 Carbophenothion	27.461	27.460	(0.957)	385145	1.00000	1.018

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.646	27.644	(0.963)	361510	1.00000	1.046
\$ 35 Triphenyl phosphate	27.935	27.932	(0.973)	342483	1.00000	1.059
36 EPN	28.241	28.240	(0.984)	391460	1.00000	1.055
37 Phosmet	28.369	28.366	(0.988)	302493	1.00000	1.027
* 38 TOCP	28.706	28.705	(1.000)	747627	2.00000	
39 Azinphos-methyl	28.819	28.816	(1.004)	240868	1.00000	0.9800
40 Azinphos-ethyl	29.131	29.127	(1.015)	286560	1.00000	1.057
41 Coumaphos	29.459	29.453	(1.026)	236130	1.00000	0.9934
M 42 Total Demeton				404997	1.00000	1.067
M 43 Merphos				451876	1.00000	1.026

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC D.i
 Lab File ID: 007F0701.D
 Lab Smp Id: 8141 L3 GSV87309
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Misc Info:

Calibration Date: 06-AUG-2009
 Calibration Time: 19:10
 Client Smp ID: 8141 L3 GSV8730
 Level:
 Sample Type:

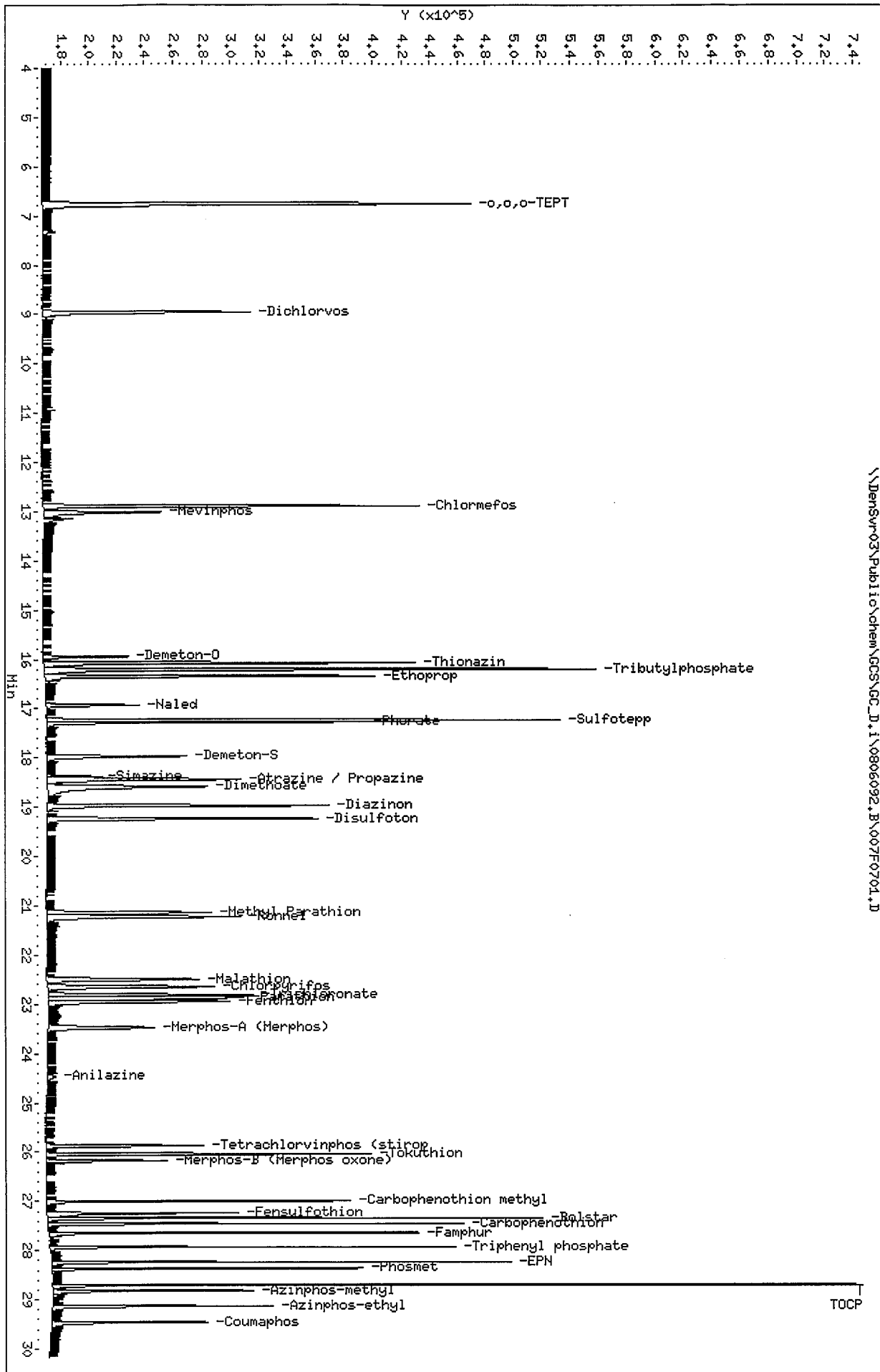
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	989795	494898	1979590	989216	-0.06
38 TOCP	732545	366273	1465090	747627	2.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.20	0.02
38 TOCP	28.70	28.20	29.20	28.71	0.00

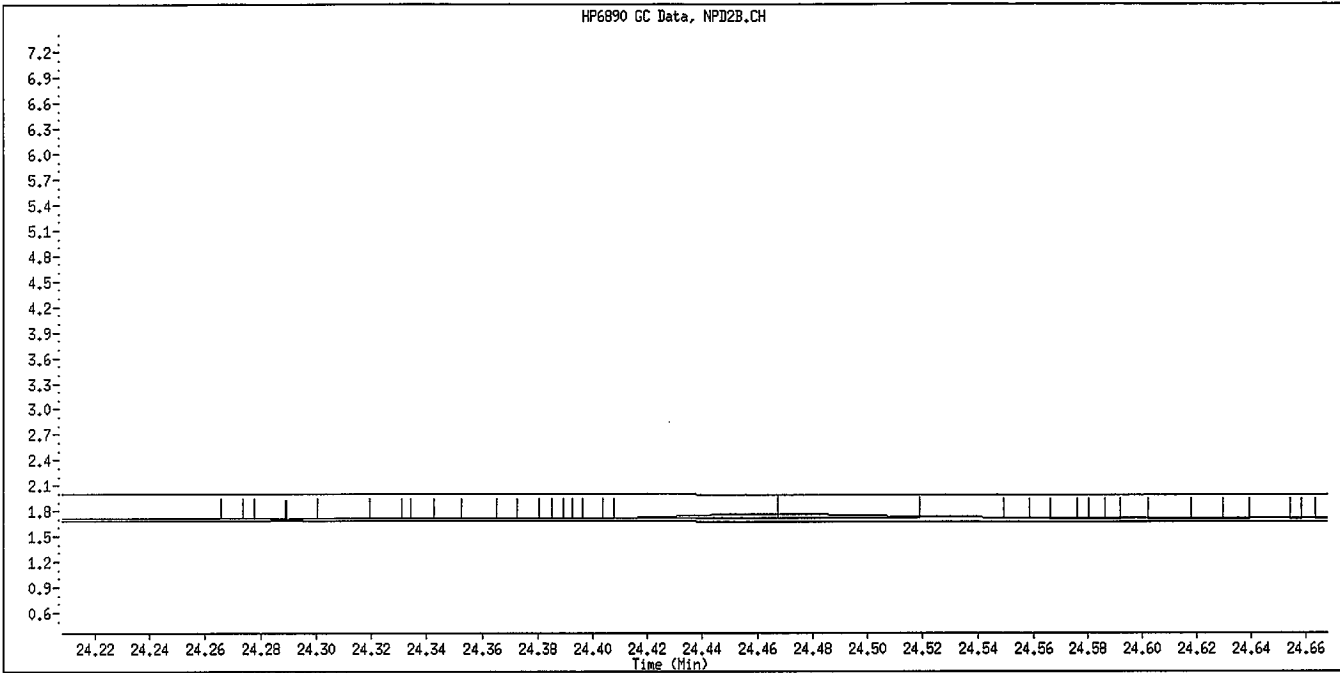
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Densvr03\Public\chem\GCS\GC_D,\0806092,B\007F0701.D
 Date: 06-AUG-2009 17:24
 Client ID: 8144 L3 GSV87309
 Sample Info: 8144 L3 GSV87309
 Column phase: RTX-OPpest

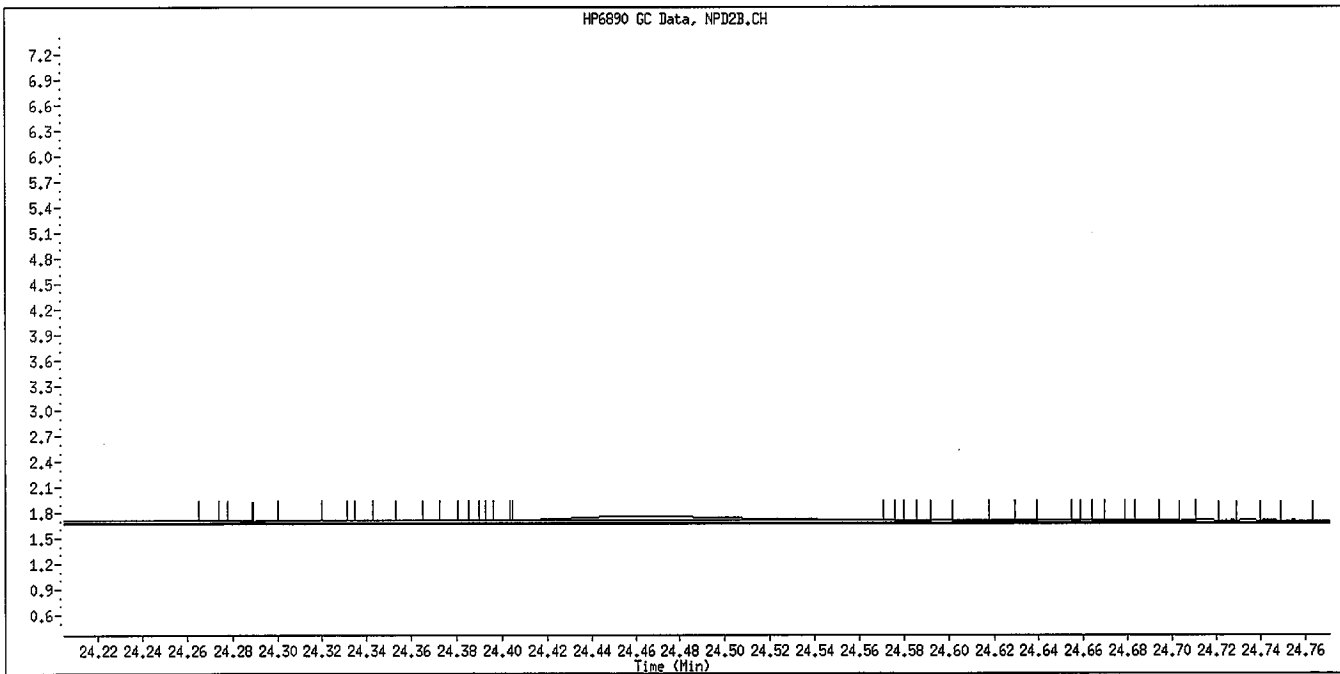
Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32



Data File Name: 007F0701.D
Inj. Date and Time: 06-AUG-2009 17:21
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV87309
Compound Name: Anilazine
CAS #:
Report Date: 08/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\008F0801.D
 Lab Smp Id: 8141 L2 GSV87409 Client Smp ID: 8141 L2 GSV87409
 Inj Date : 06-AUG-2009 17:58
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L2 GSV87409
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:43 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 17:21 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	6.760	6.758	(0.417)	446074	0.50000	0.5083
2 Dichlorvos	8.957	8.952	(0.553)	184786	0.50000	0.4724
\$ 3 Chlormefos	12.887	12.885	(0.795)	285008	0.50000	0.4339
4 Mevinphos	13.017	13.006	(0.803)	90159	0.50000	0.4122
5 Demeton-O	15.943	15.939	(0.984)	52208	0.16250	0.1454
6 Thionazin	16.072	16.067	(0.992)	254165	0.50000	0.4777
* 7 Tributylphosphate	16.203	16.193	(1.000)	938496	2.00000	
8 Ethoprop	16.341	16.332	(1.009)	267910	0.50000	0.4373
9 Naled	16.928	16.921	(1.045)	47634	0.50000	0.4328
10 Sulfotepp	17.237	17.234	(1.064)	366024	0.50000	0.4669 (M)
11 Phorate	17.263	17.268	(1.065)	194983	0.50000	0.4917 (M)
12 Demeton-S	17.980	17.962	(1.110)	115344	0.34000	0.3201
13 Simazine	18.389	18.368	(1.135)	15934	0.50000	0.4213
14 Atrazine / Propazine	18.447	18.434	(1.139)	205001	1.00000	0.9517
15 Dimethoate	18.611	18.569	(1.149)	178809	0.50000	0.4400 (M)
16 Diazinon	18.974	18.967	(1.171)	230115	0.50000	0.4947
17 Disulfoton	19.237	19.231	(1.187)	226407	0.50000	0.4819
18 Methyl Parathion	21.146	21.132	(0.737)	130034	0.50000	0.4531
19 Ronnel	21.229	21.222	(0.740)	194447	0.50000	0.4743
20 Malathion	22.504	22.492	(0.784)	150756	0.50000	0.4856
21 Chlorpyrifos	22.650	22.644	(0.789)	169871	0.50000	0.4753
22 Trichloronate	22.826	22.819	(0.795)	196799	0.50000	0.4662
23 Parathion	22.878	22.866	(0.797)	175066	0.50000	0.4646
24 Fenthion	22.949	22.942	(0.799)	206817	0.50000	0.4732
25 Merphos-A (Merphos)	23.483	23.472	(0.818)	104851	0.50000	0.4644
26 Anilazine	24.499	24.451	(0.853)	10789	0.50000	0.4585 (M)
27 Tetrachlorvinphos (stirophos)	25.879	25.869	(0.902)	97796	0.50000	0.4261
28 Tokuthion	26.051	26.043	(0.907)	200061	0.50000	0.4456
29 Merphos-B (Merphos oxone)	26.183	26.176	(0.912)	96740	0.50000	0.4507
30 Carbophenothion methyl	27.005	26.999	(0.941)	134360	0.50000	0.4281
31 Fensulfothion	27.255	27.237	(0.949)	101238	0.50000	0.4451
32 Bolstar	27.351	27.347	(0.953)	211287	0.50000	0.4917
33 Carbophenothion	27.464	27.460	(0.957)	161758	0.50000	0.4504

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.649	27.644	(0.963)	142973	0.50000	0.4356
\$ 35 Triphenyl phosphate	27.936	27.932	(0.973)	146162	0.50000	0.4759
36 EPN	28.243	28.240	(0.984)	165917	0.50000	0.4710
37 Phosmet	28.373	28.366	(0.988)	114720	0.50000	0.4440
* 38 TOCP	28.707	28.705	(1.000)	709802	2.00000	
39 Azinphos-methyl	28.825	28.816	(1.004)	89923	0.50000	0.4185
40 Azinphos-ethyl	29.136	29.127	(1.015)	116961	0.50000	0.4543
41 Coumaphos	29.465	29.453	(1.026)	91236	0.50000	0.4310
M 42 Total Demeton				167552	0.50000	0.4655
M 43 Merphos				201591	0.50000	0.4803

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i
 Lab File ID: 008F0801.D
 Lab Smp Id: 8141 L2 GSV87409
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Misc Info:

Calibration Date: 06-AUG-2009
 Calibration Time: 19:10
 Client Smp ID: 8141 L2 GSV8740
 Level:
 Sample Type:

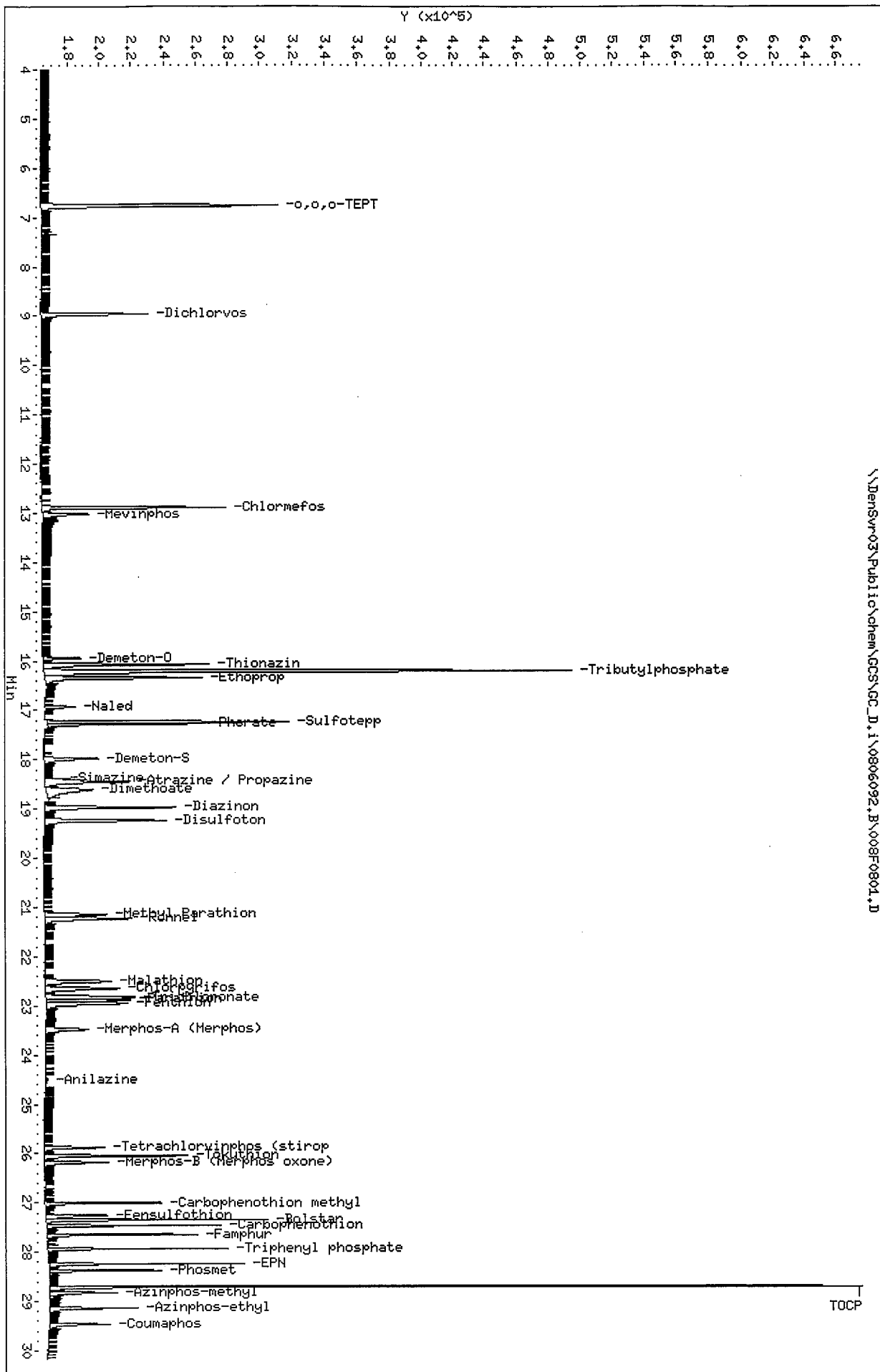
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	989795	494898	1979590	938496	-5.18
38 TOCP	732545	366273	1465090	709802	-3.10

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.20	0.05
38 TOCP	28.70	28.20	29.20	28.71	0.01

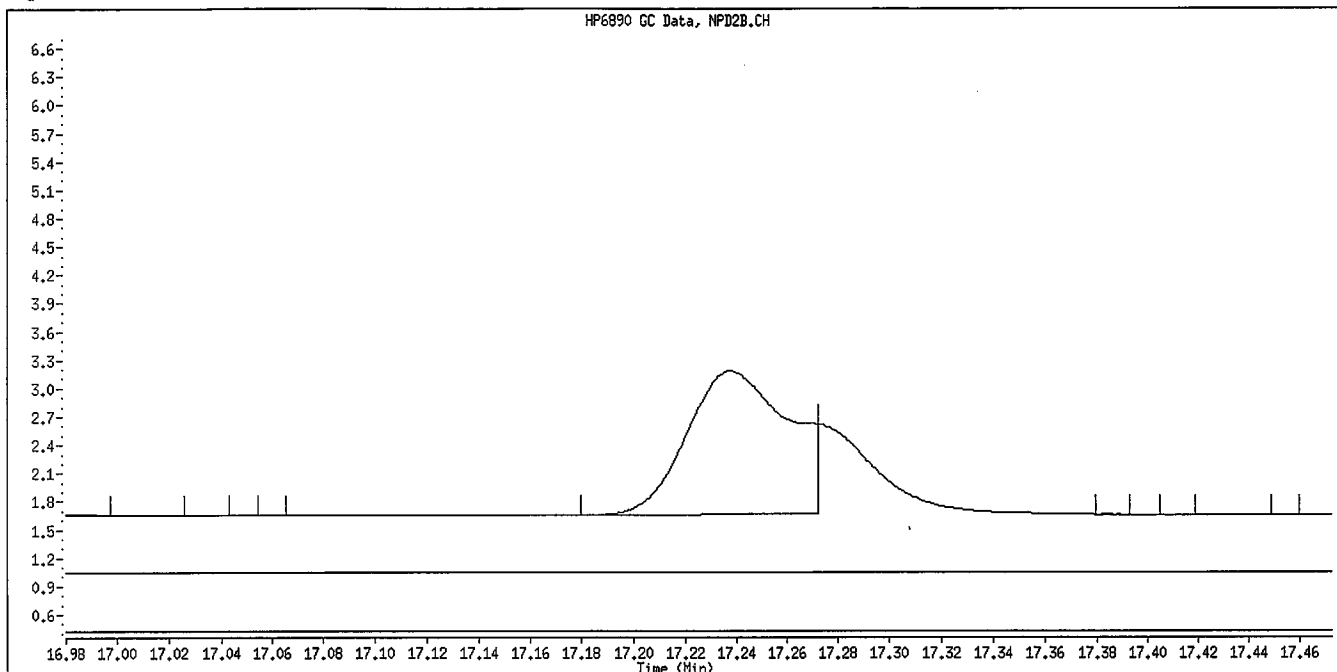
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Densv03\Public\chem\GCSS\GC_D,\0806092,B\008F0801.D
 Date: 06-AUG-2009 17:58
 Client ID: 81441 L2 GSV87409
 Sample Info: 81441 L2 GSV87409
 Column phase: RTX-OPpest

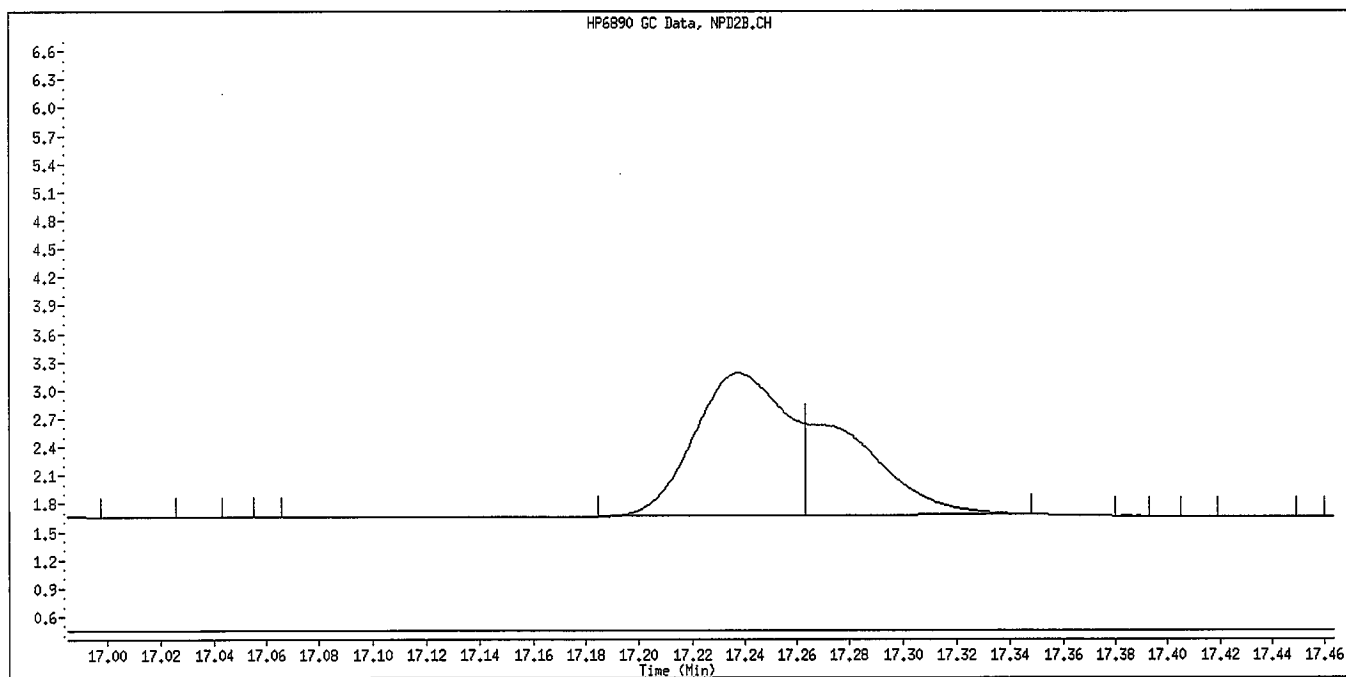
Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32



Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Sulfotepp
CAS #:
Report Date: 08/07/2009



Original Integration

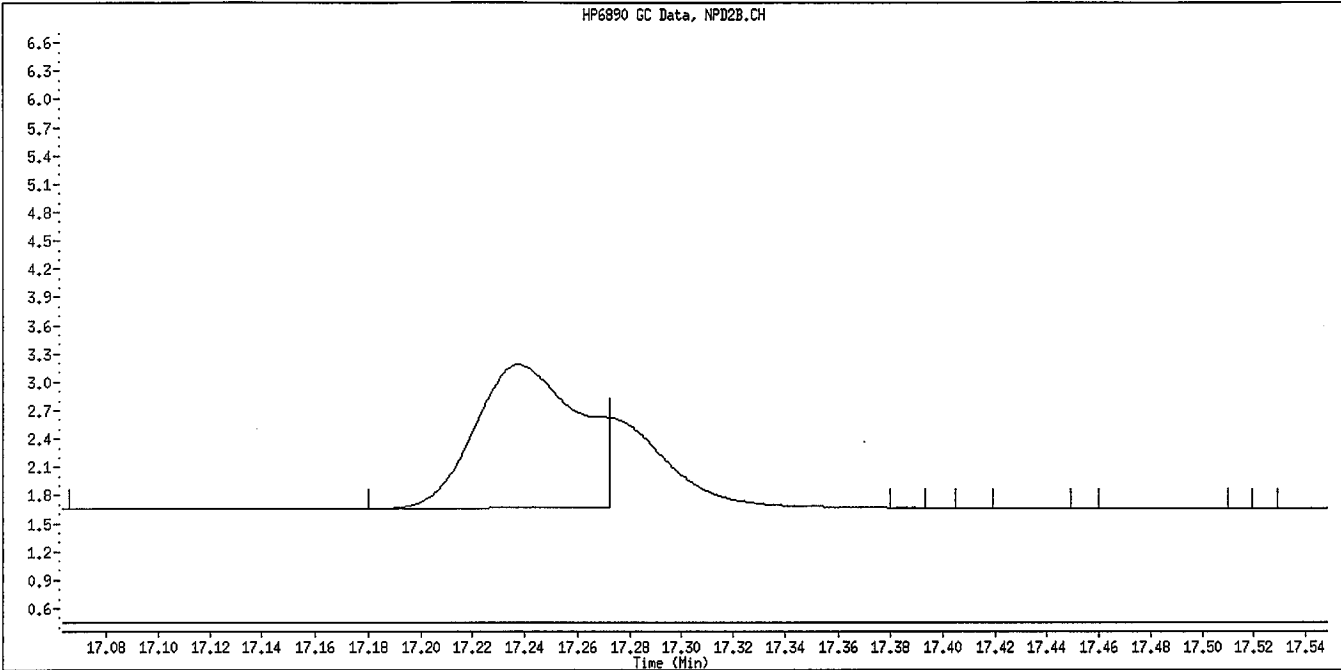


Manual Integration

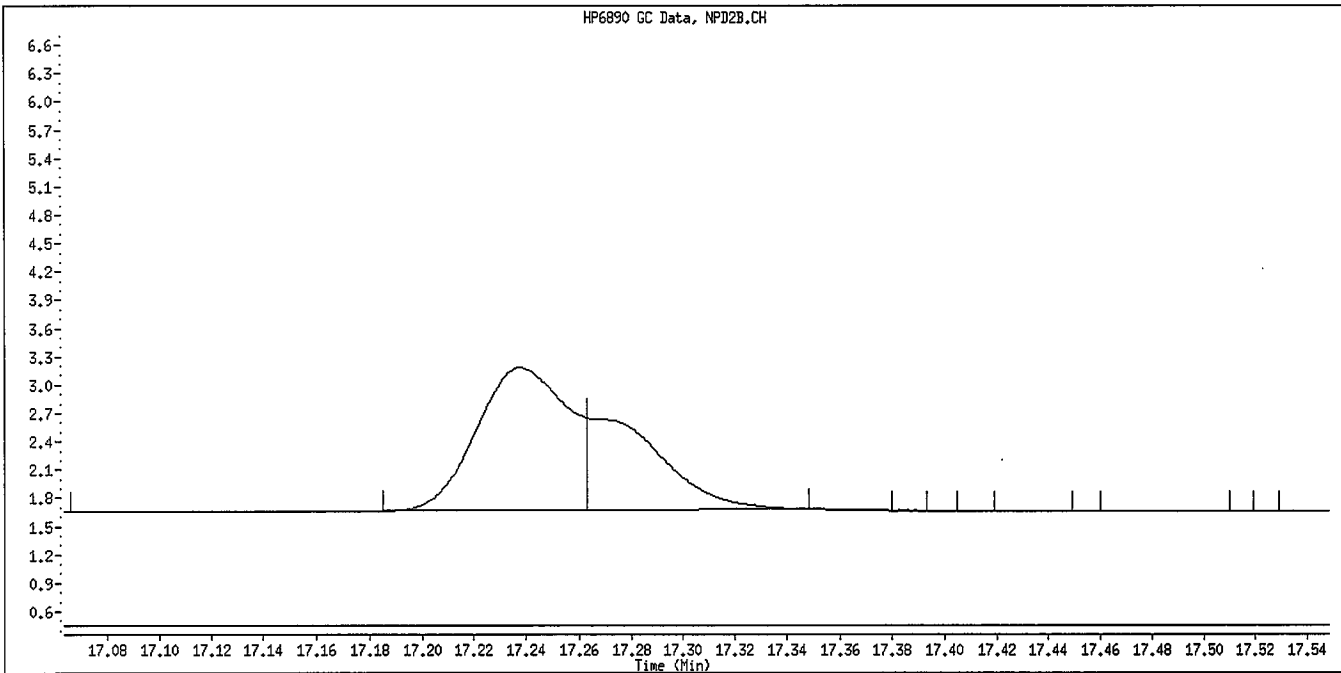
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature/initials

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Phorate
CAS #:
Report Date: 08/07/2009



Original Integration

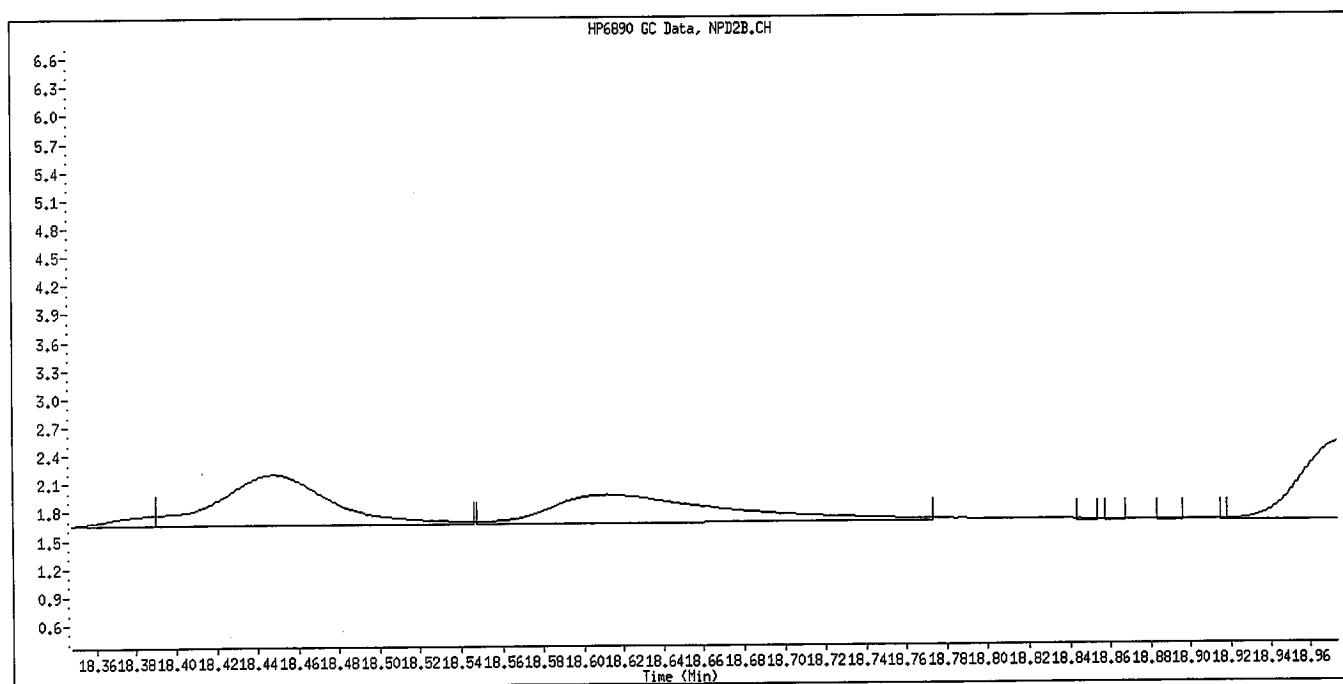
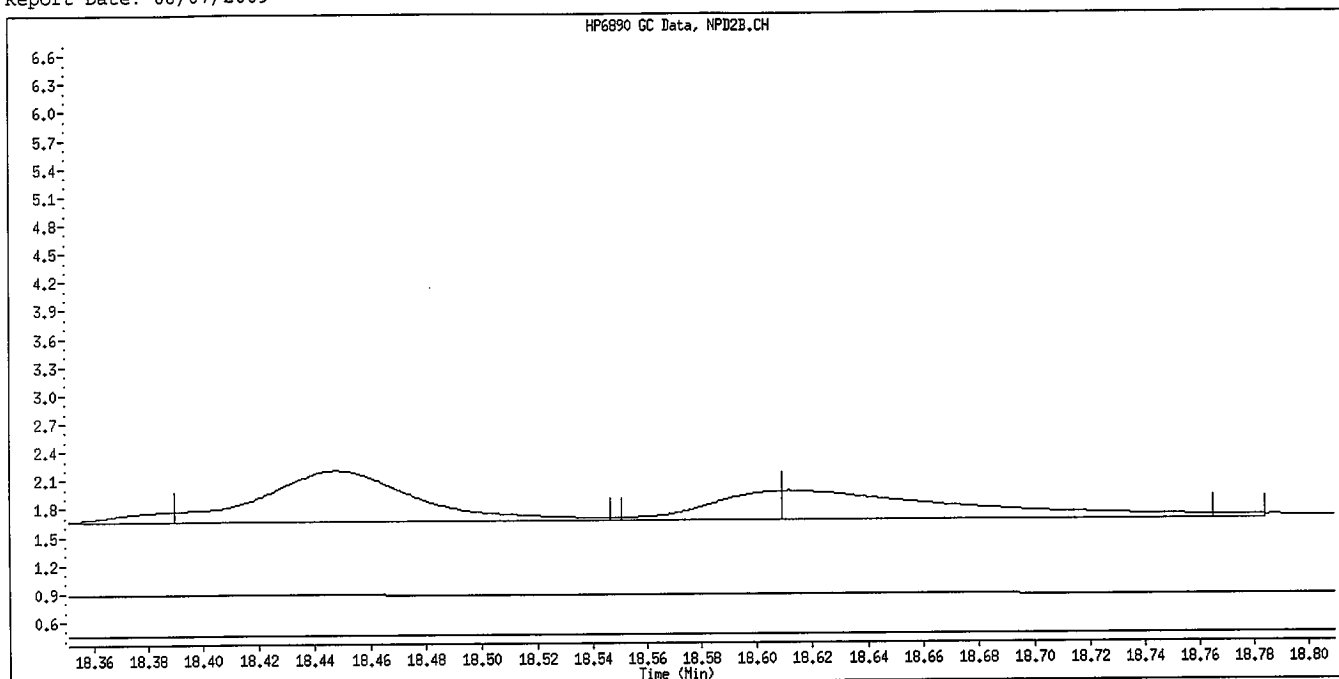


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Williamst

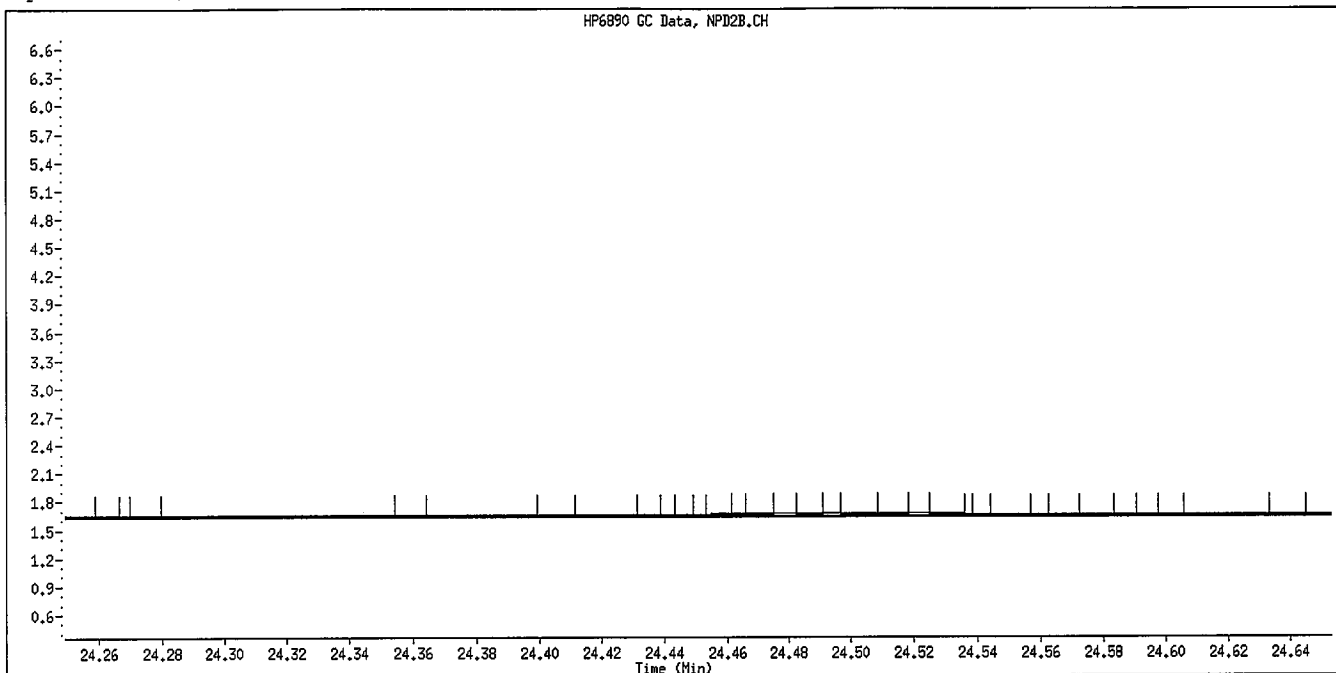
Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Dimethoate
CAS #:
Report Date: 08/07/2009



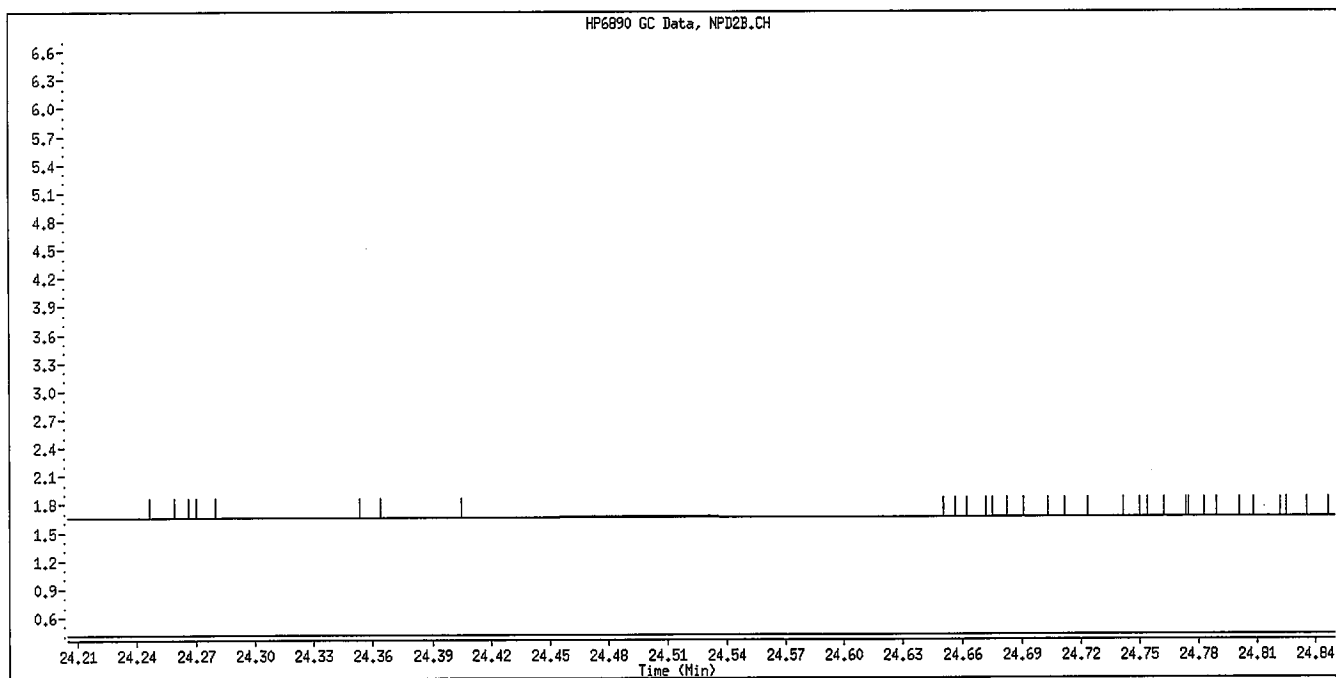
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

WFLA

Data File Name: 008F0801.D
Inj. Date and Time: 06-AUG-2009 17:58
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV87409
Compound Name: Anilazine
CAS #:
Report Date: 08/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\009F0901.D
 Lab Smp Id: 8141 L1 GSV87509 Client Smp ID: 8141 L1 GSV87509
 Inj Date : 06-AUG-2009 18:34
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 L1 GSV87509
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:44 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 17:58 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	6.759	6.758	(0.417)	194063	0.20000	0.2449
2 Dichlorvos	8.959	8.952	(0.553)	76144	0.20000	0.2156
§ 3 Chlormefos	12.885	12.885	(0.795)	118440	0.20000	0.1612
4 Mevinphos	13.026	13.006	(0.804)	26181	0.20000	0.1630 (M)
5 Demeton-O	15.943	15.939	(0.984)	20641	0.06500	0.06367
6 Thionazin	16.074	16.067	(0.992)	97068	0.20000	0.2021
* 7 Tributylphosphate	16.208	16.193	(1.000)	847277	2.00000	
8 Ethoprop	16.346	16.332	(1.009)	150814	0.20000	0.2078
9 Naled	16.933	16.921	(1.045)	12427	0.20000	0.2460 (M)
10 Sulfotepp	17.239	17.234	(1.064)	149883	0.20000	0.2118 (M)
11 Phorate	17.264	17.268	(1.065)	91874	0.20000	0.2566 (M)
12 Demeton-S	17.989	17.962	(1.110)	35956	0.13600	0.1105
13 Simazine	18.413	18.368	(1.136)	6499	0.20000	0.3477 (M)
14 Atrazine / Propazine	18.459	18.434	(1.139)	76775	0.40000	0.3948 (M)
15 Dimethoate	18.648	18.569	(1.151)	62417	0.20000	0.2072 (M)
16 Diazinon	18.976	18.967	(1.171)	95564	0.20000	0.2276
17 Disulfoton	19.239	19.231	(1.187)	88146	0.20000	0.2078
18 Methyl Parathion	21.160	21.132	(0.737)	40092	0.20000	0.2055 (M)
19 Ronnel	21.234	21.222	(0.740)	87144	0.20000	0.2238
20 Malathion	22.514	22.492	(0.784)	52293	0.20000	0.2003 (M)
21 Chlorpyrifos	22.658	22.644	(0.789)	60489	0.20000	0.2033 (M)
22 Trichloronate	22.829	22.819	(0.795)	66017	0.20000	0.2065 (M)
23 Parathion	22.885	22.866	(0.797)	66767	0.20000	0.2620 (M)
24 Fenthion	22.959	22.942	(0.800)	89878	0.20000	0.2030 (M)
25 Merphos-A (Merphos)	23.486	23.472	(0.818)	23197	0.20000	0.2058 (M)
26 Anilazine	24.549	24.451	(0.855)	3273	0.20000	0.2331 (M)
27 Tetrachlorvinphos (stirophos)	25.888	25.869	(0.902)	35965	0.20000	0.2129
28 Tokuthion	26.052	26.043	(0.907)	82667	0.20000	0.1938
29 Merphos-B (Merphos oxone)	26.184	26.176	(0.912)	58022	0.20000	0.2908
30 Carbophenothion methyl	27.010	26.999	(0.941)	51067	0.20000	0.1713
31 Fensulfothion	27.272	27.237	(0.950)	31957	0.20000	0.2067
32 Bolstar	27.353	27.347	(0.953)	91030	0.20000	0.2230
33 Carbophenothion	27.467	27.460	(0.957)	66936	0.20000	0.1962

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.653	27.644	(0.963)	55126	0.20000	0.1768
\$ 35 Triphenyl phosphate	27.938	27.932	(0.973)	61702	0.20000	0.2115
36 EPN	28.244	28.240	(0.984)	69232	0.20000	0.2069
37 Phosmet	28.378	28.366	(0.989)	42368	0.20000	0.2070
* 38 TOCP	28.708	28.705	(1.000)	674279	2.00000	
39 Azinphos-methyl	28.830	28.816	(1.004)	37094	0.20000	0.2126
40 Azinphos-ethyl	29.140	29.127	(1.015)	46859	0.20000	0.1916
41 Coumaphos	29.468	29.453	(1.026)	37102	0.20000	0.2102
M 42 Total Demeton				56597	0.20000	0.1742
M 43 Merphos				81219	0.20000	0.2015

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: GC_D.i	Calibration Date: 06-AUG-2009
Lab File ID: 009F0901.D	Calibration Time: 19:10
Lab Smp Id: 8141 L1 GSV87509	Client Smp ID: 8141 L1 GSV8750
Analysis Type: SV	Level:
Quant Type: ISTD	Sample Type:
Operator: MPK/TLW	
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m	
Misc Info:	

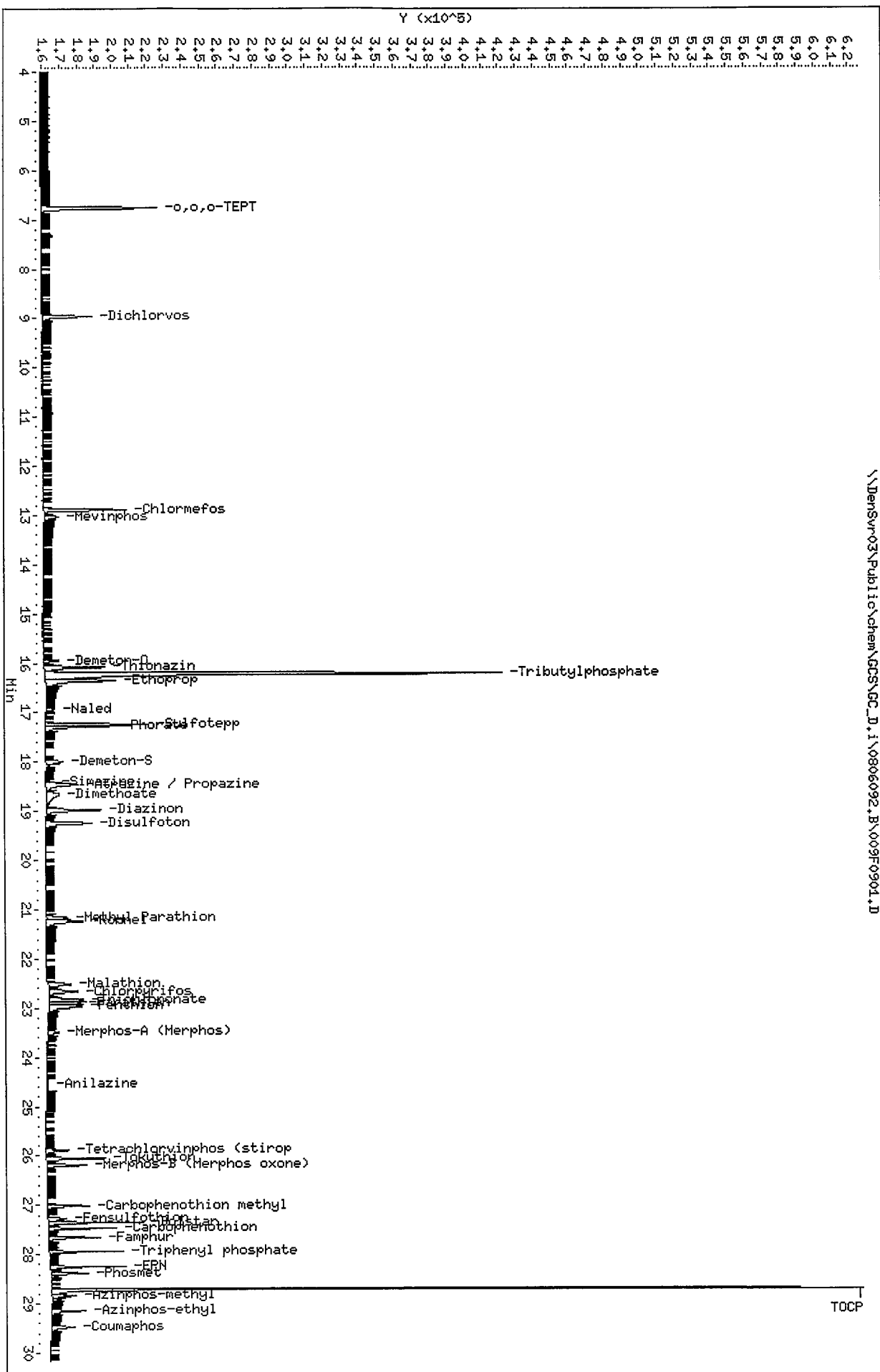
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	989795	494898	1979590	847277	-14.40
38 TOCP	732545	366273	1465090	674279	-7.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.19	15.69	16.69	16.21	0.08
38 TOCP	28.70	28.20	29.20	28.71	0.01

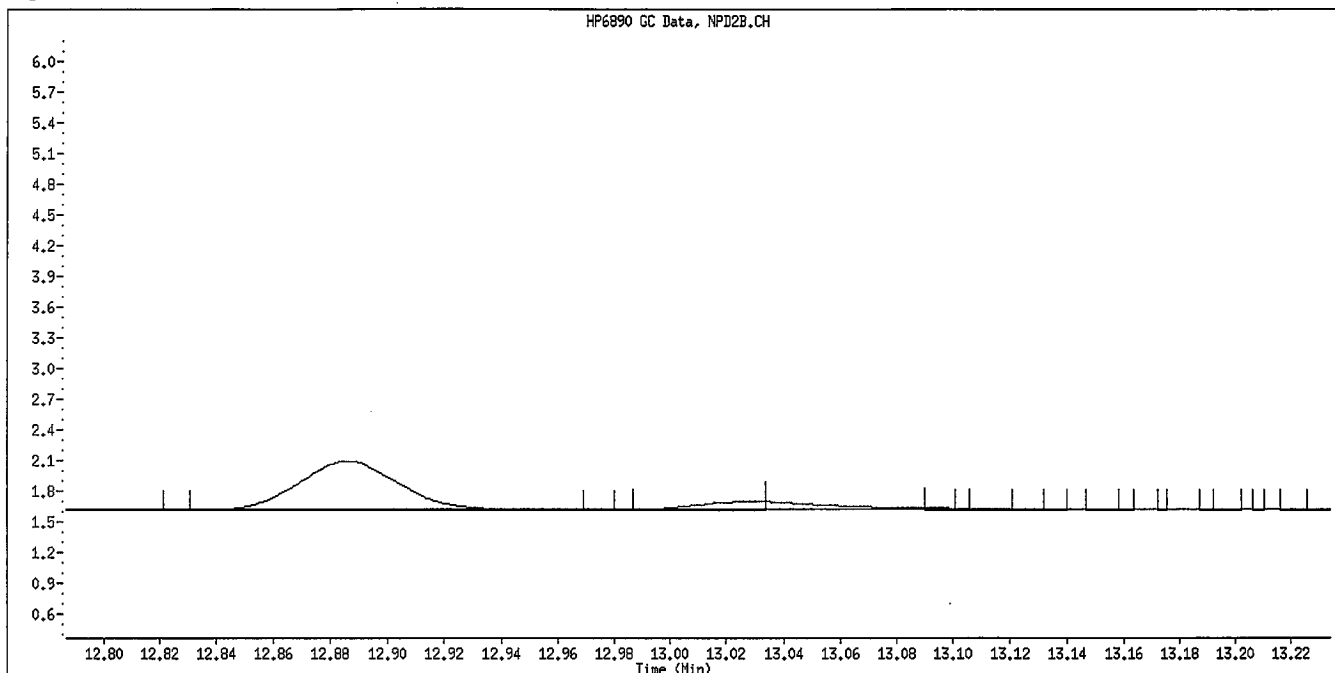
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Densvr03\Public\chem\GC\GC_D.1\0806092.B\009F0901.D
 Date: 06-AUG-2009 18:34
 Client ID: 8144 L1 GSV87509
 Sample Info: 8144 L1 GSV87509
 Column phase: RTX-OPpest

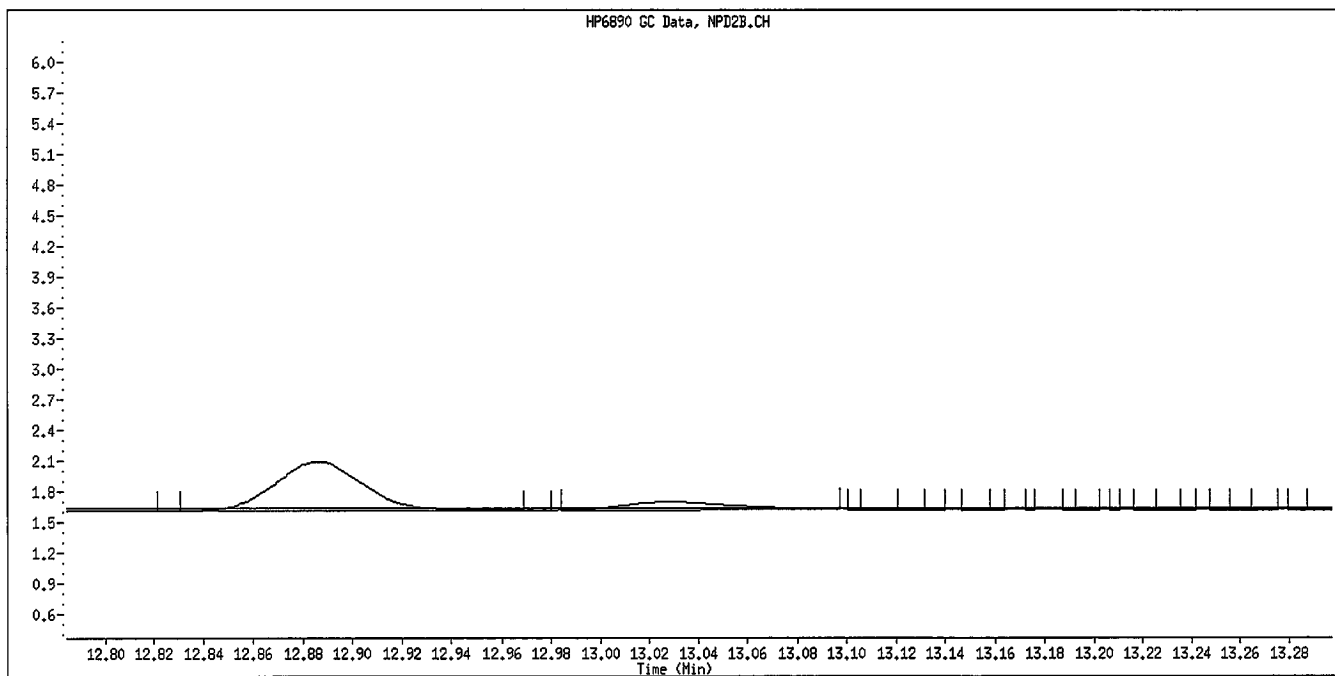
Instrument: GC.D.i
 Operator: HPK/TLM
 Column diameter: 0.32



Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Mevinphos
CAS #:
Report Date: 08/07/2009



Original Integration

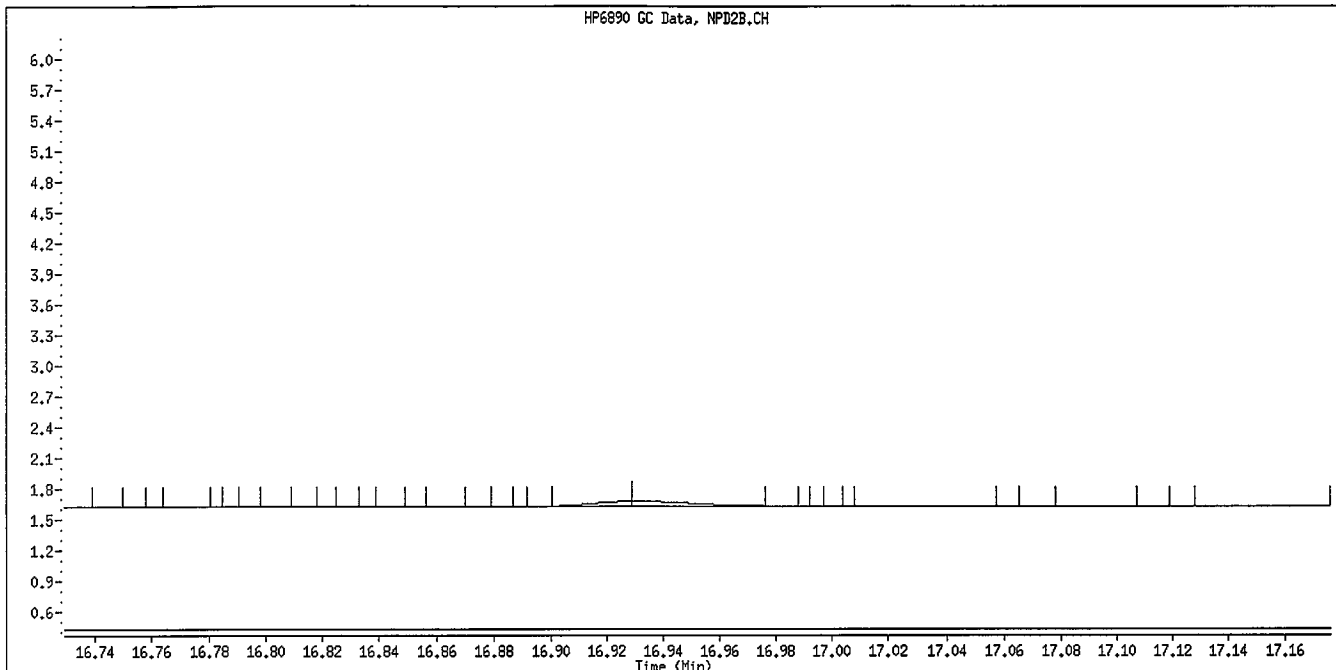


Manual Integration

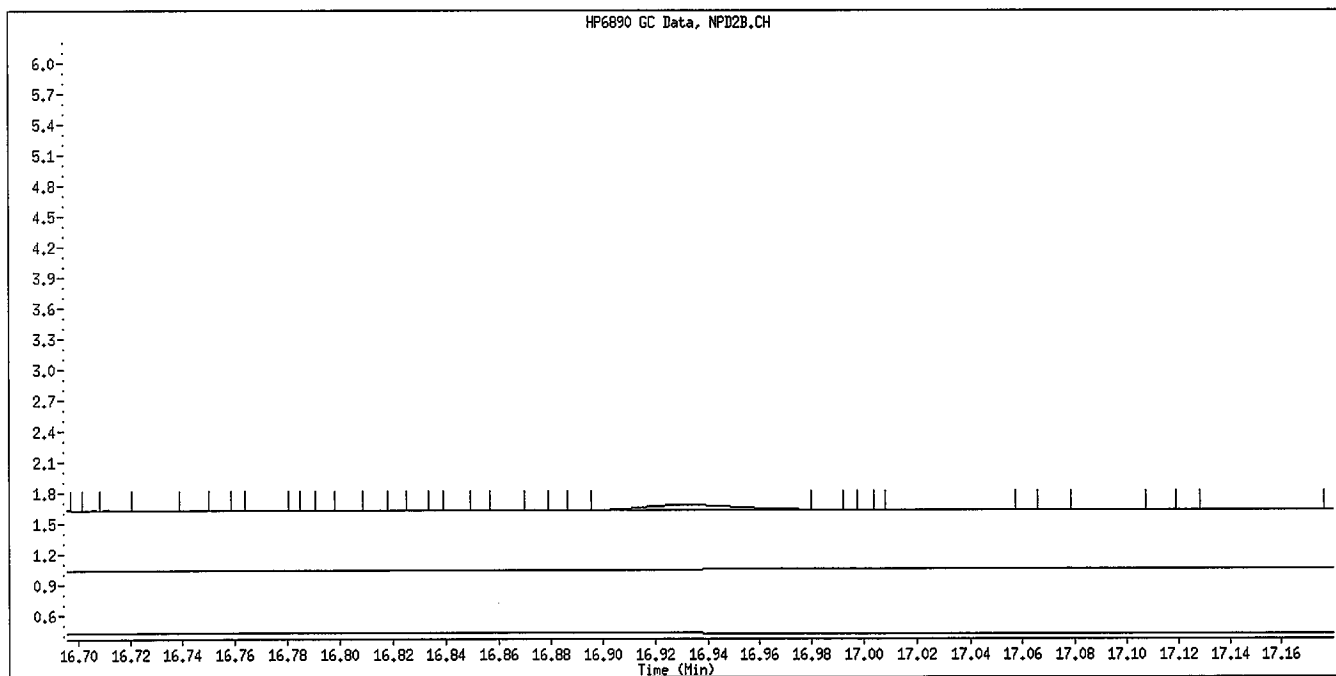
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Naled
CAS #:
Report Date: 08/07/2009



Original Integration

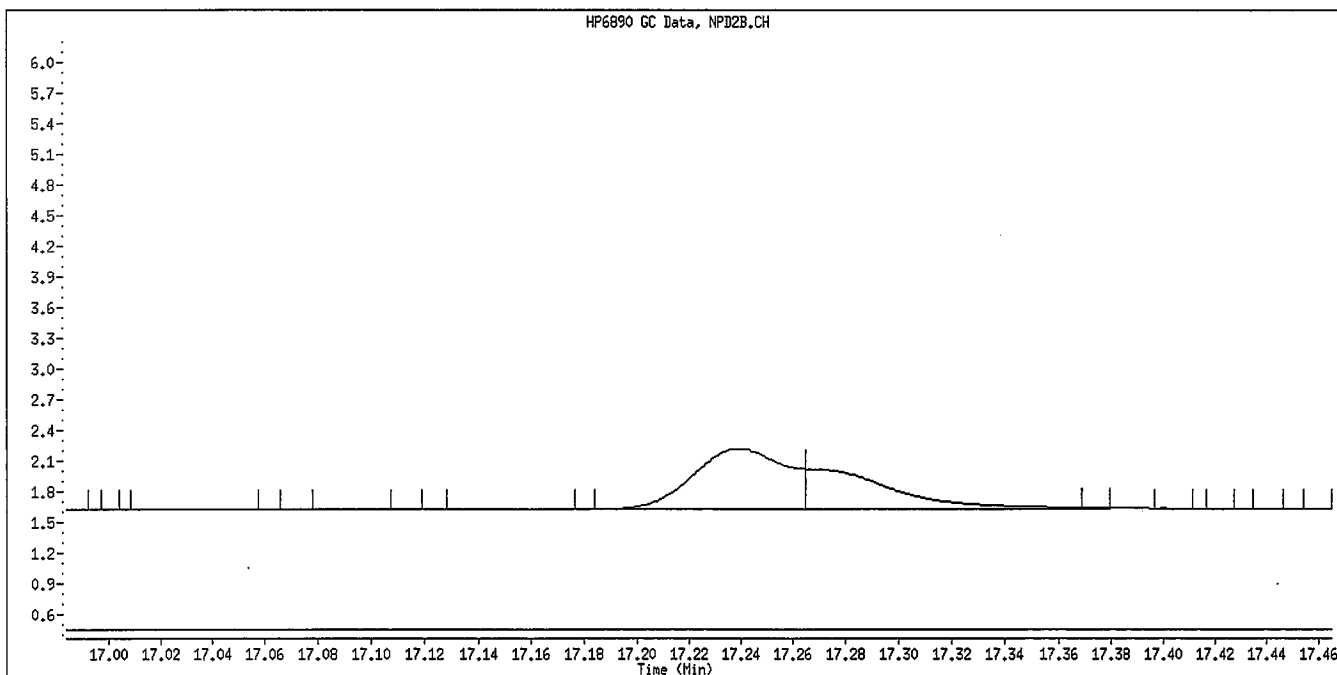
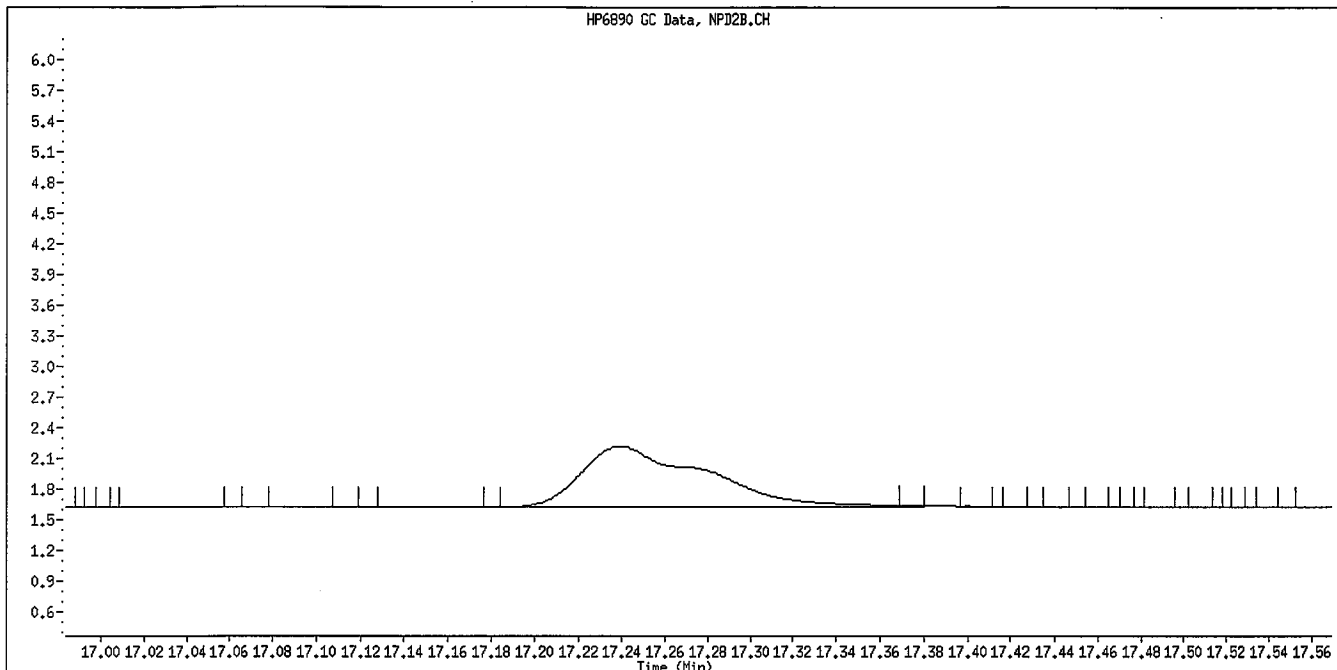


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Williamst

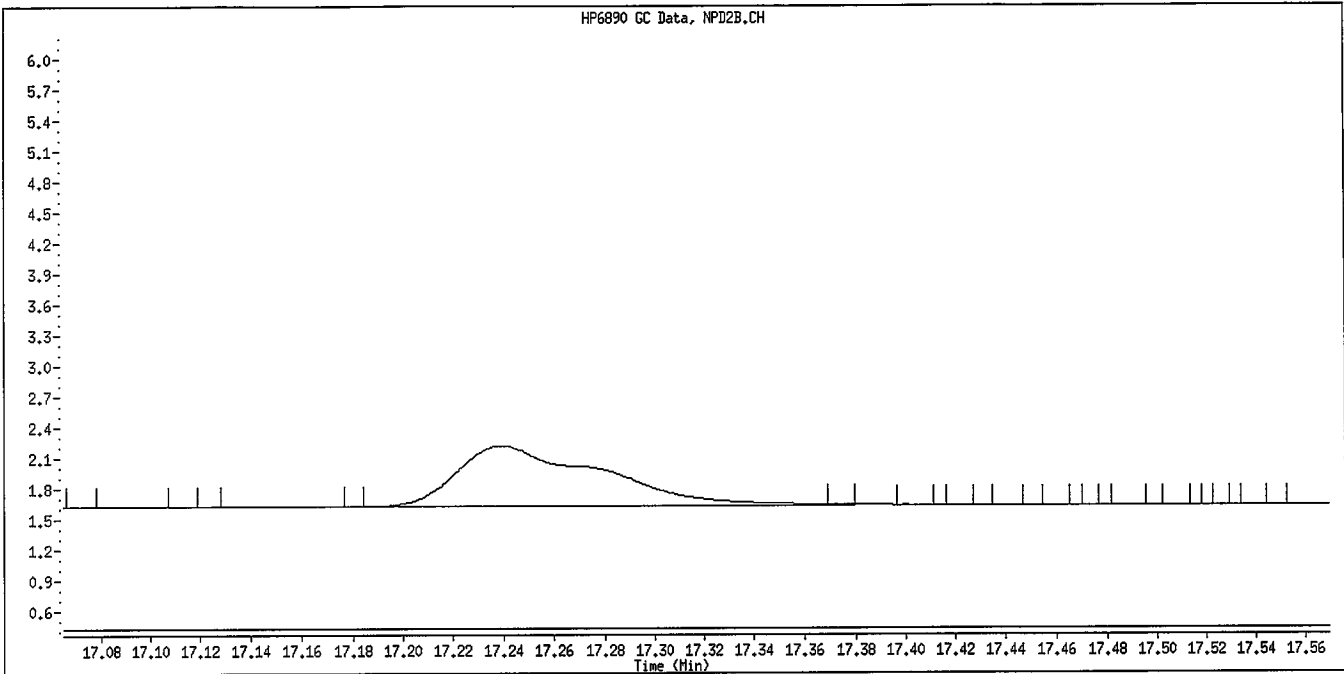
Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Sulfotepp
CAS #:
Report Date: 08/07/2009



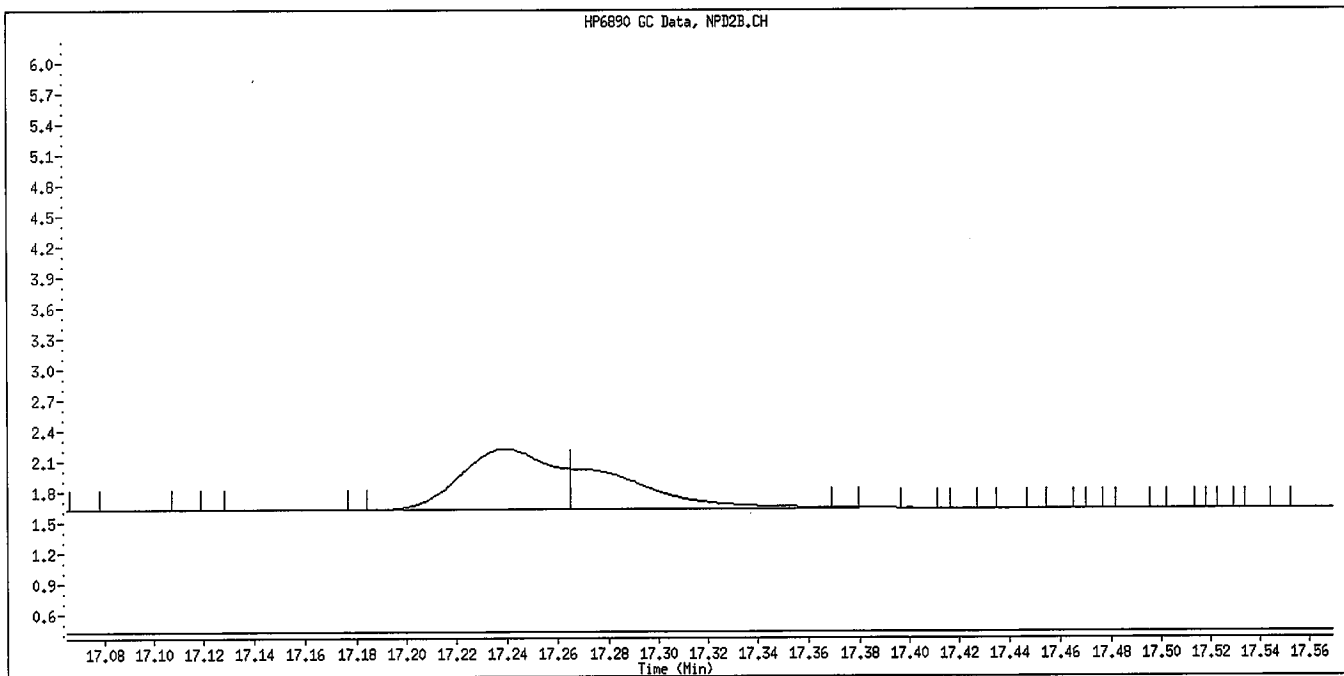
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Phorate
CAS #:
Report Date: 08/07/2009



Original Integration

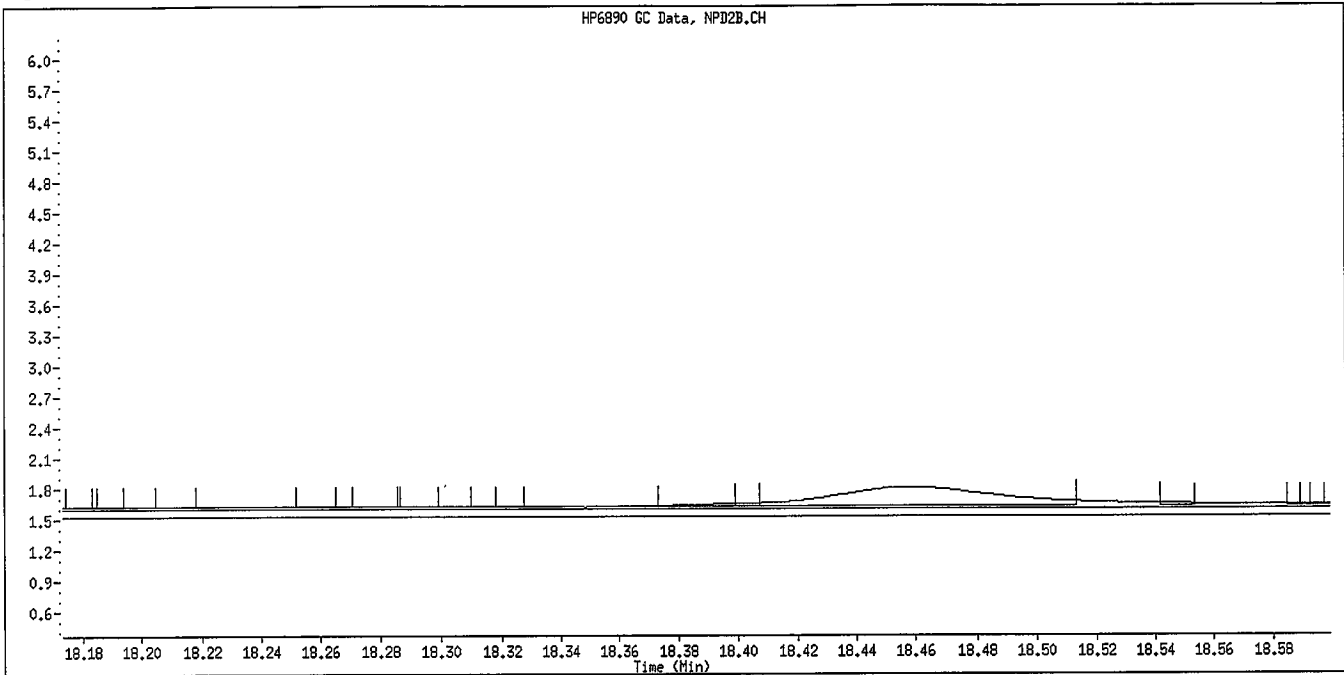


Manual Integration

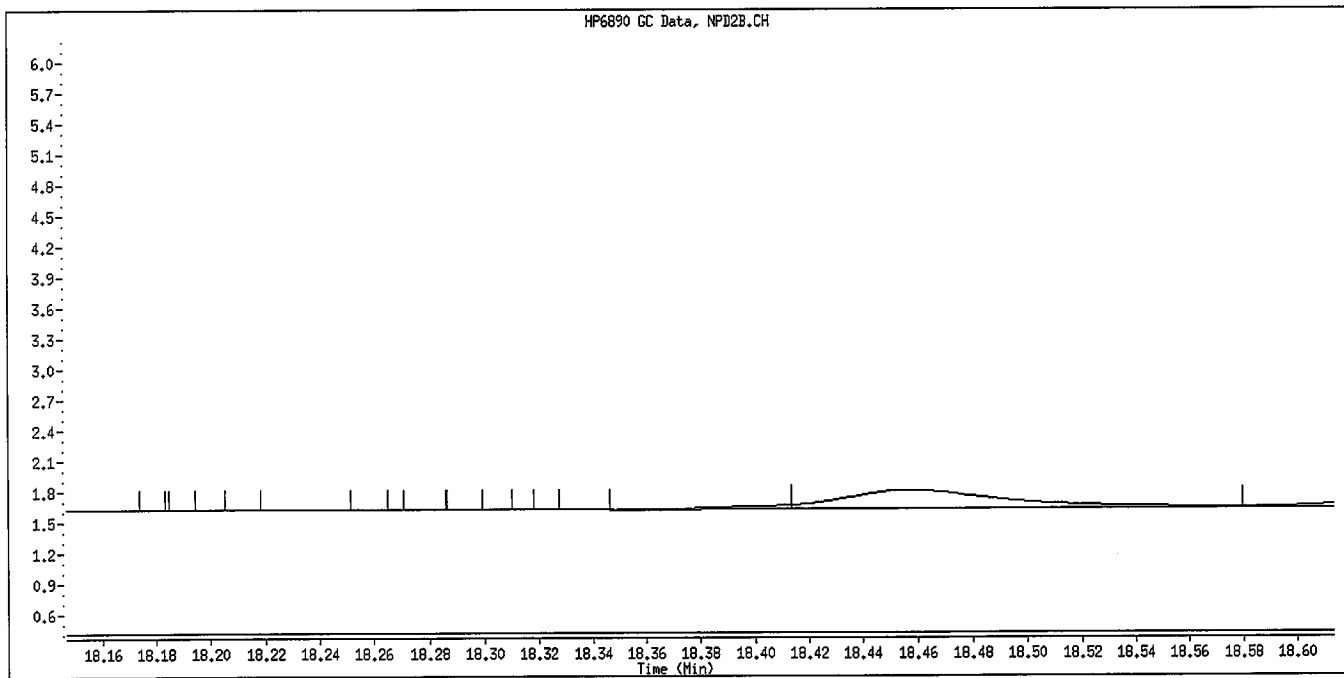
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature/initials

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Simazine
CAS #:
Report Date: 08/07/2009



Original Integration

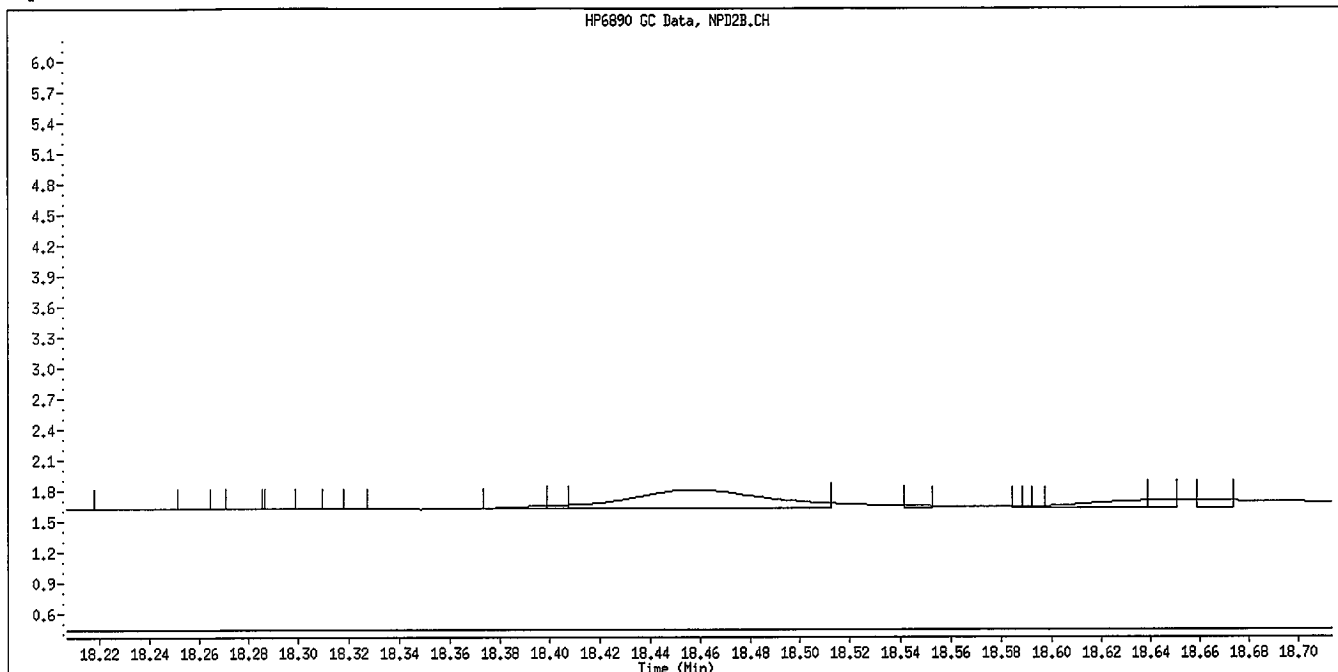


Manual Integration

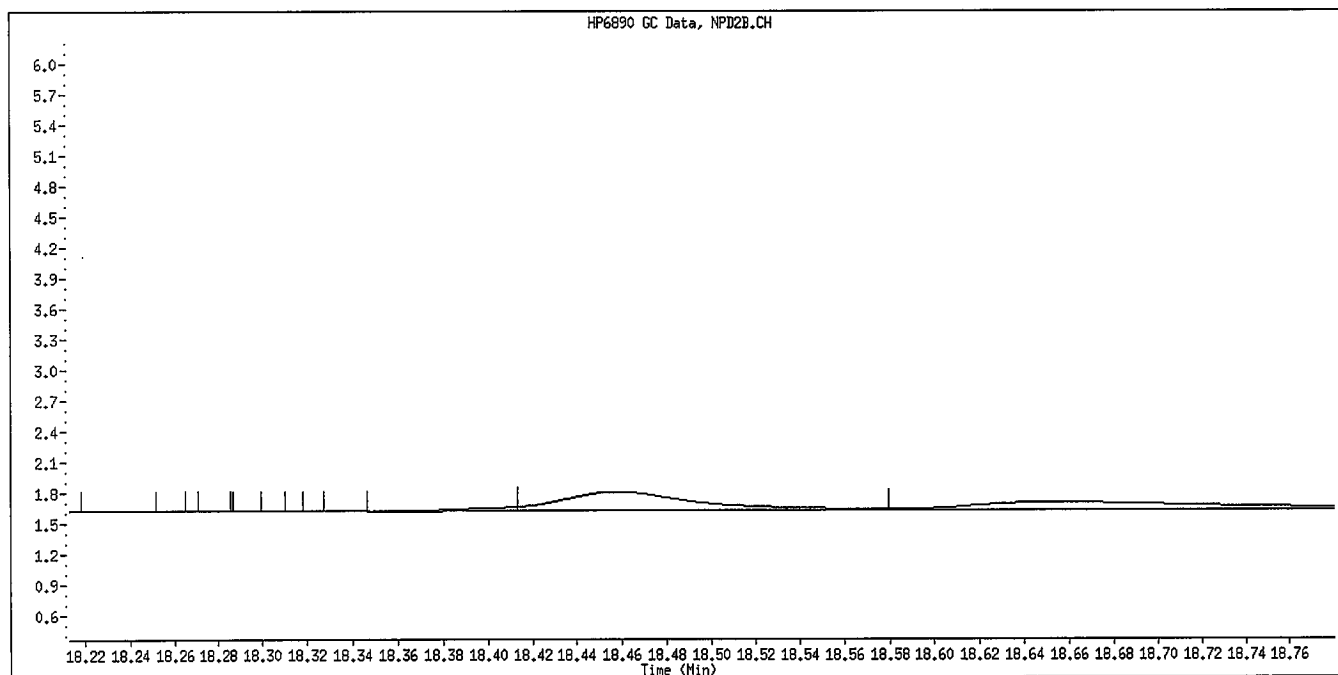
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

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SUT*

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Atrazine / Propazine
CAS #:
Report Date: 08/07/2009



Original Integration

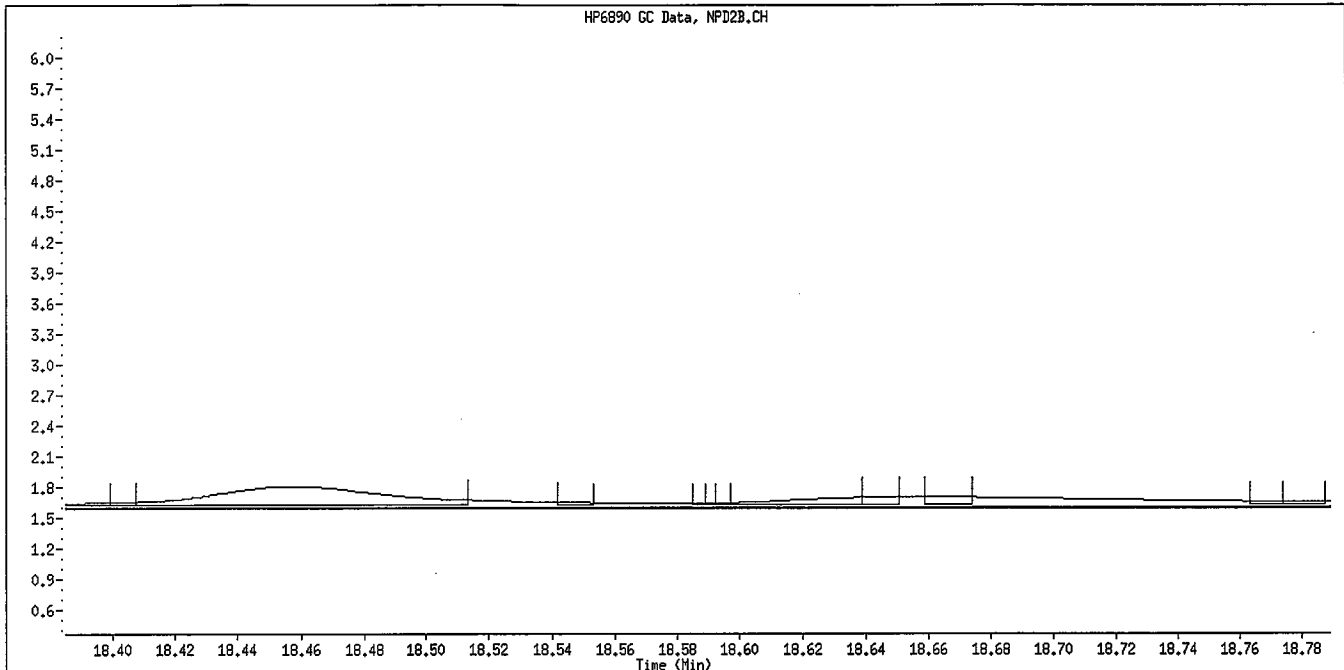


Manual Integration

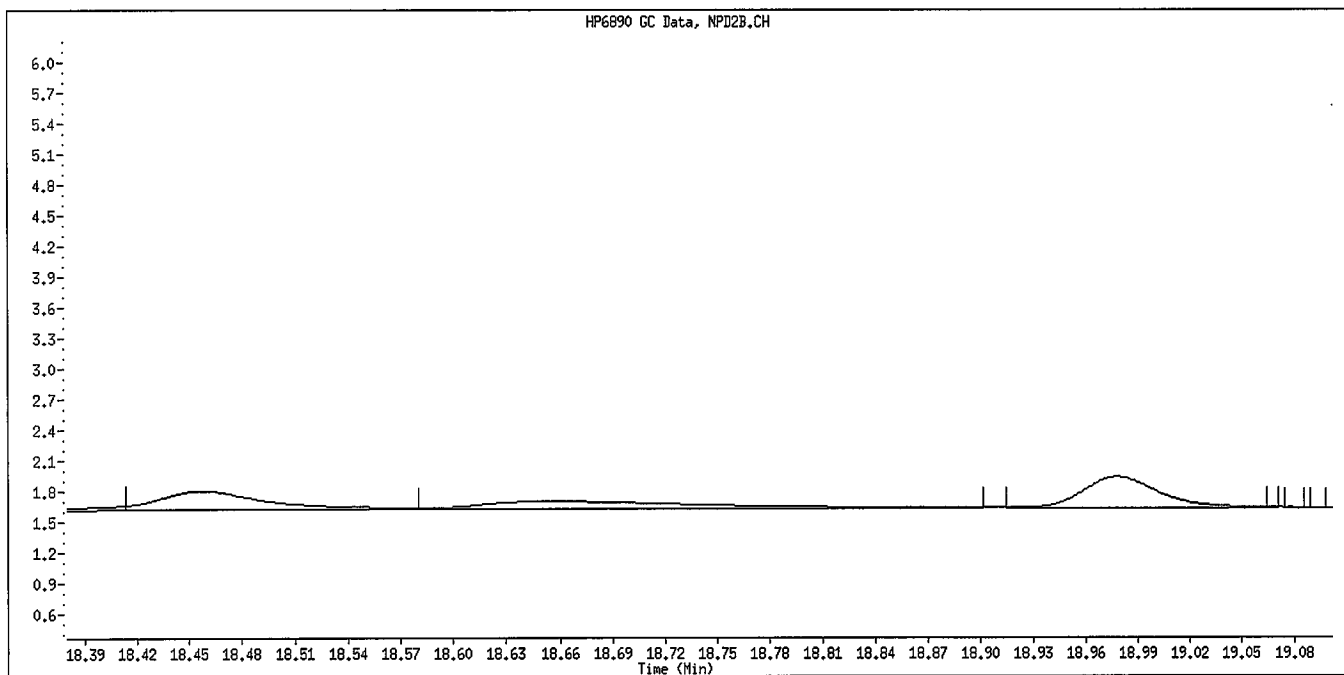
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

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Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Dimethoate
CAS #:
Report Date: 08/07/2009



Original Integration

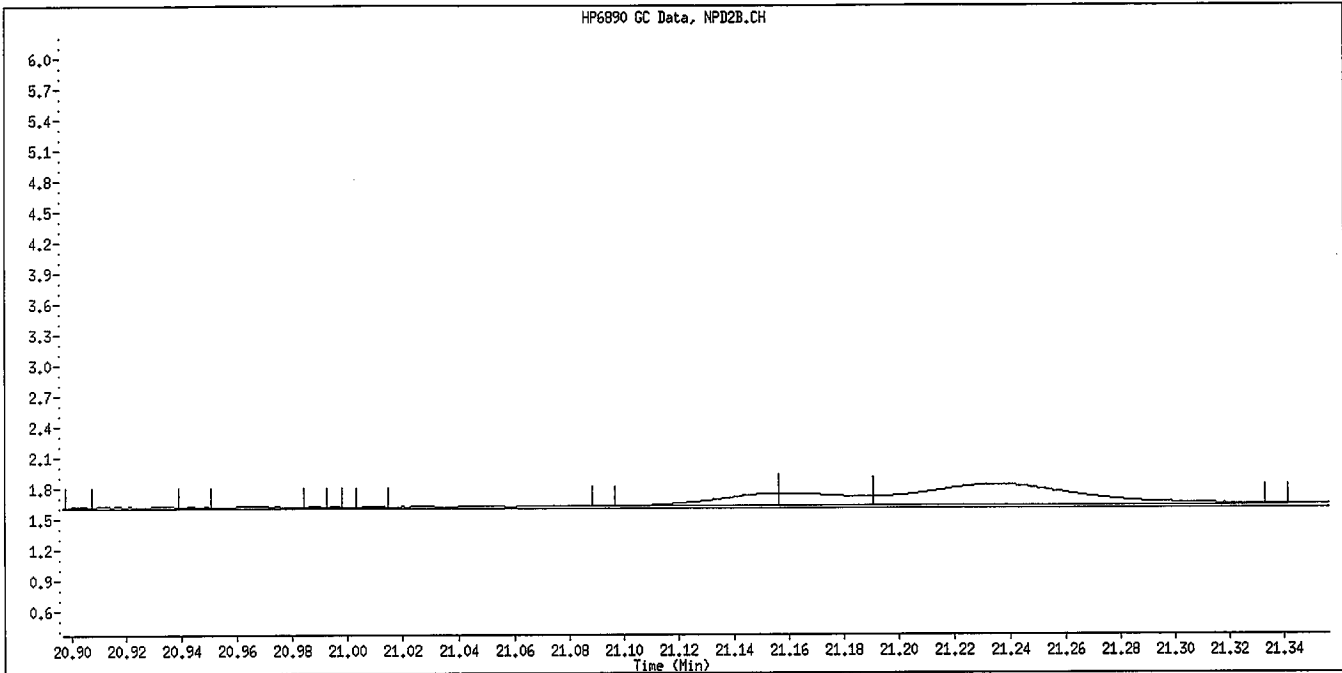


Manual Integration

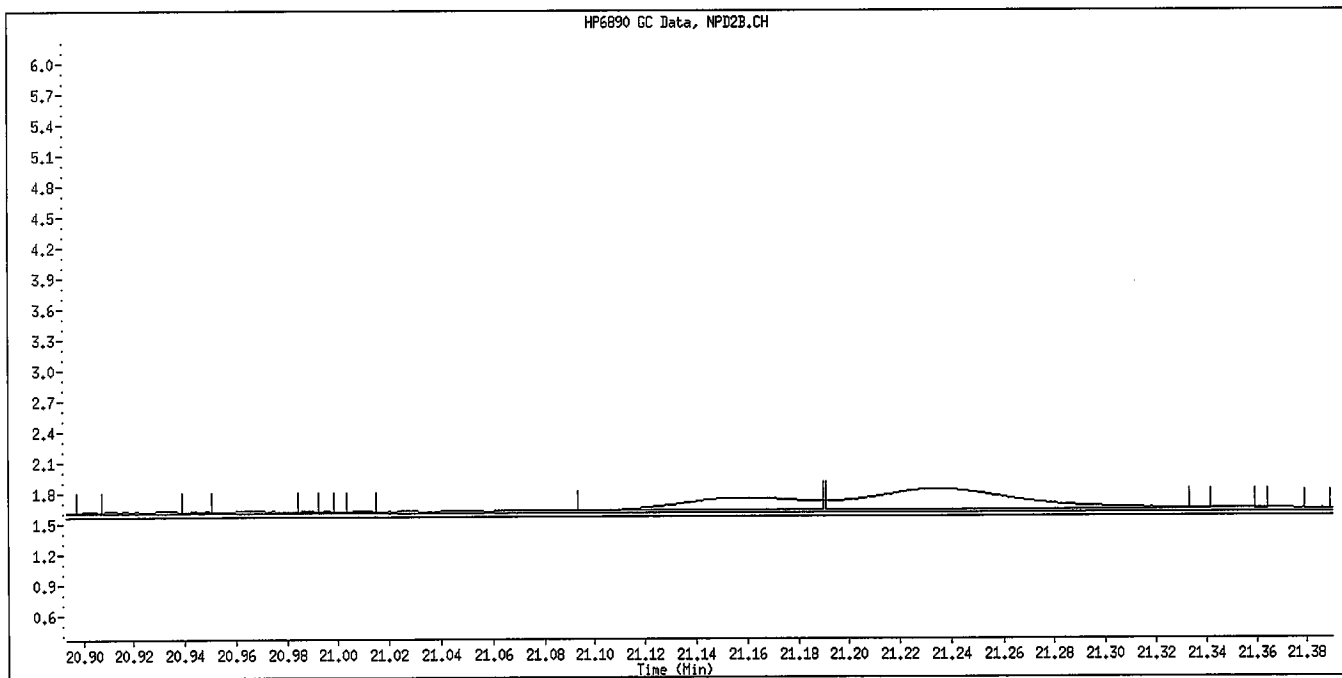
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

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8/7/09*

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Methyl Parathion
CAS #: 298-00-0
Report Date: 08/07/2009



Original Integration

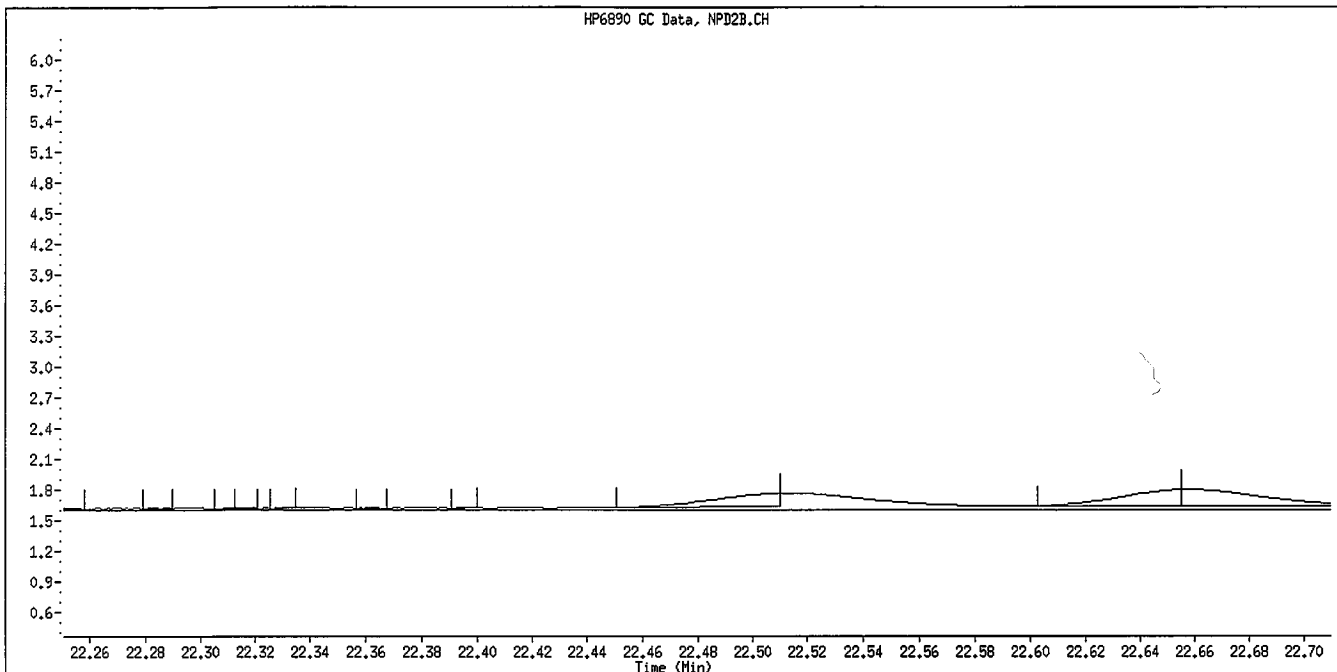


Manual Integration

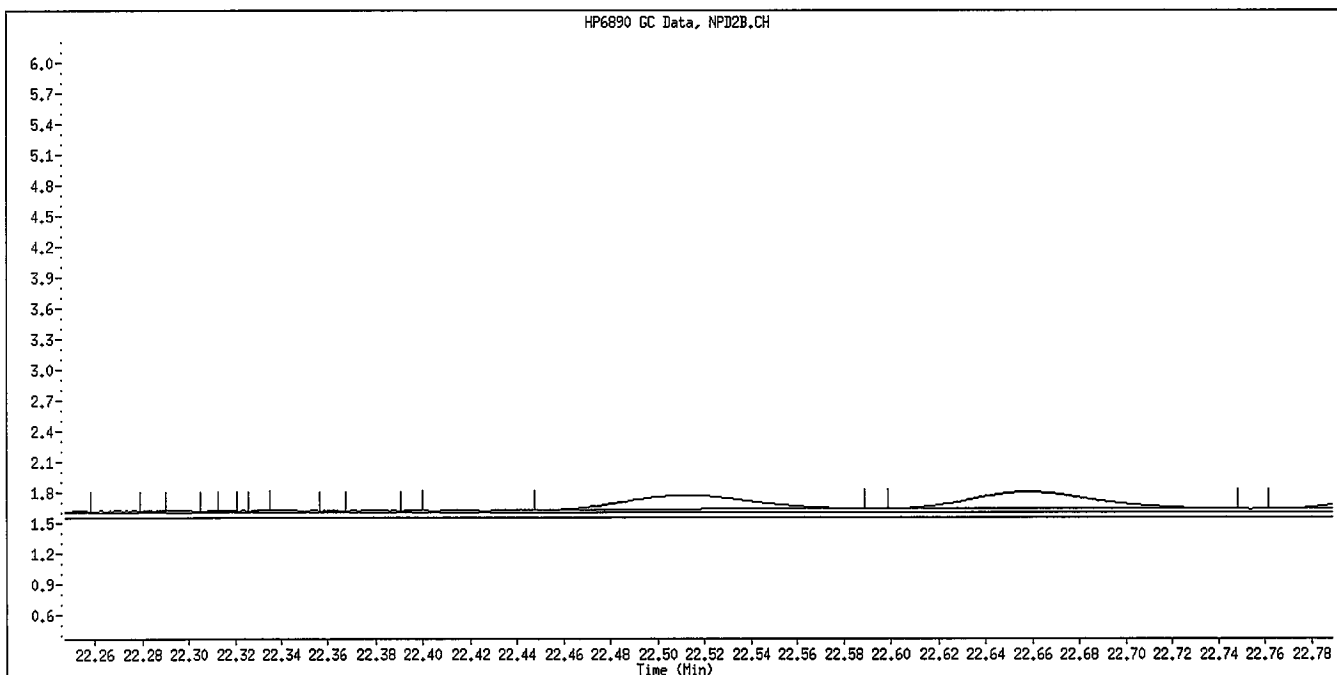
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

*LF
D. B.*

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Malathion
CAS #:
Report Date: 08/07/2009



Original Integration

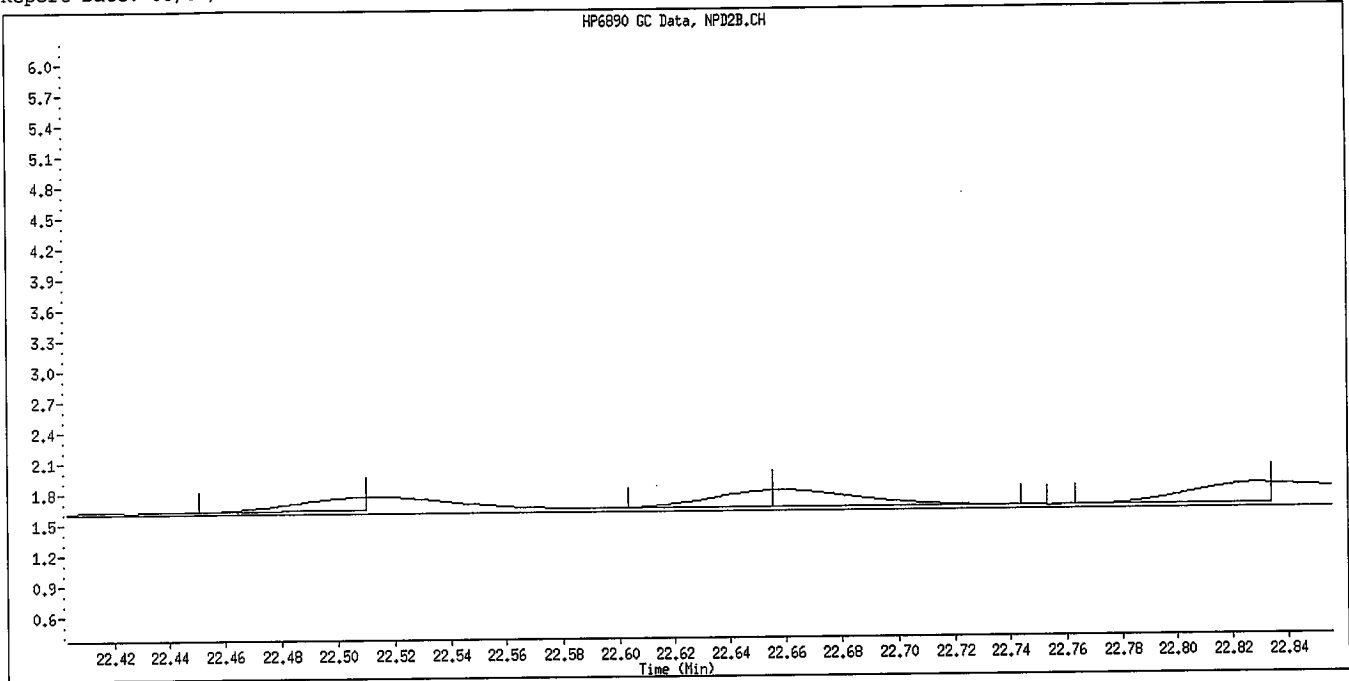


Manual Integration

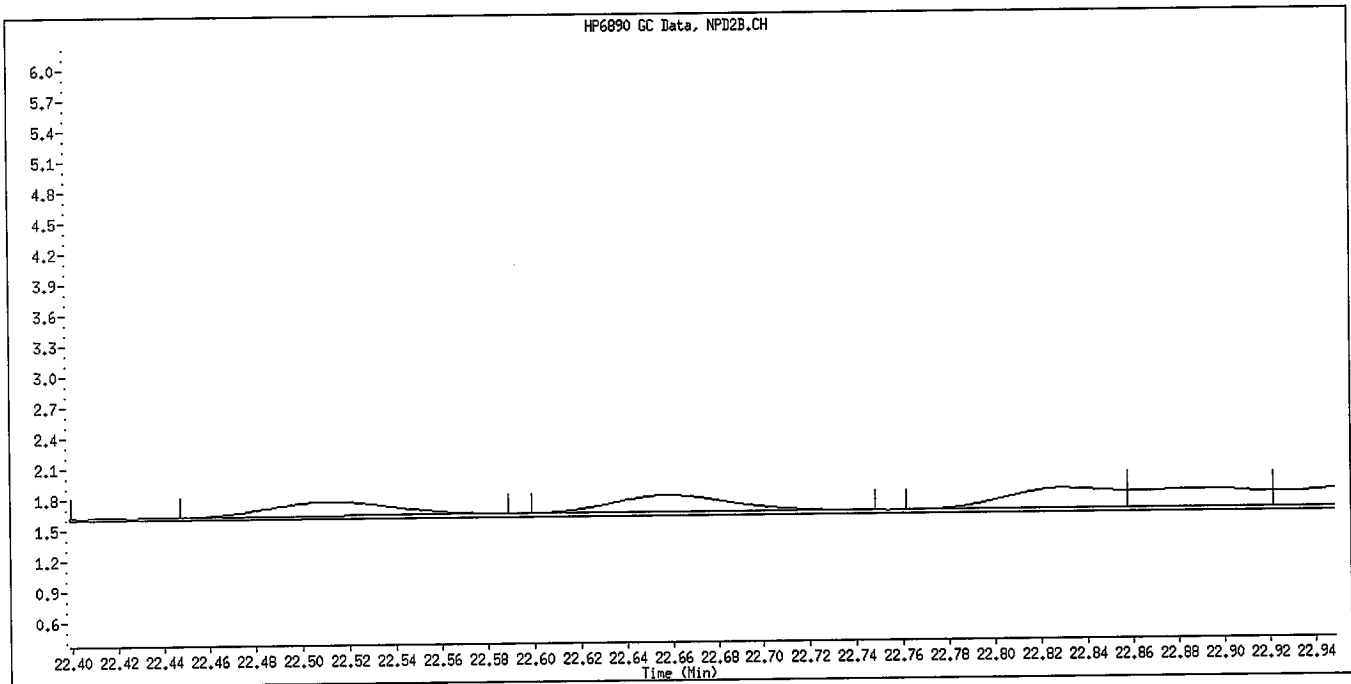
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

DLG

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Chlorpyrifos
CAS #:
Report Date: 08/07/2009



Original Integration

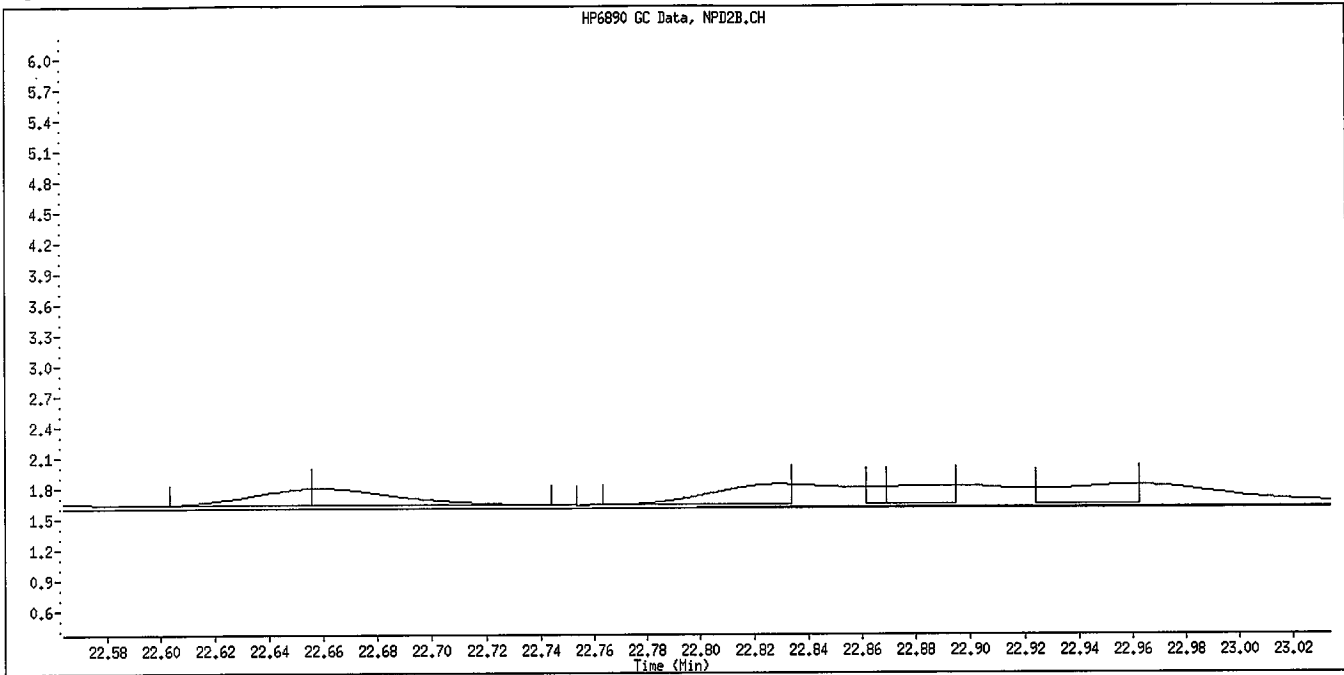


Manual Integration

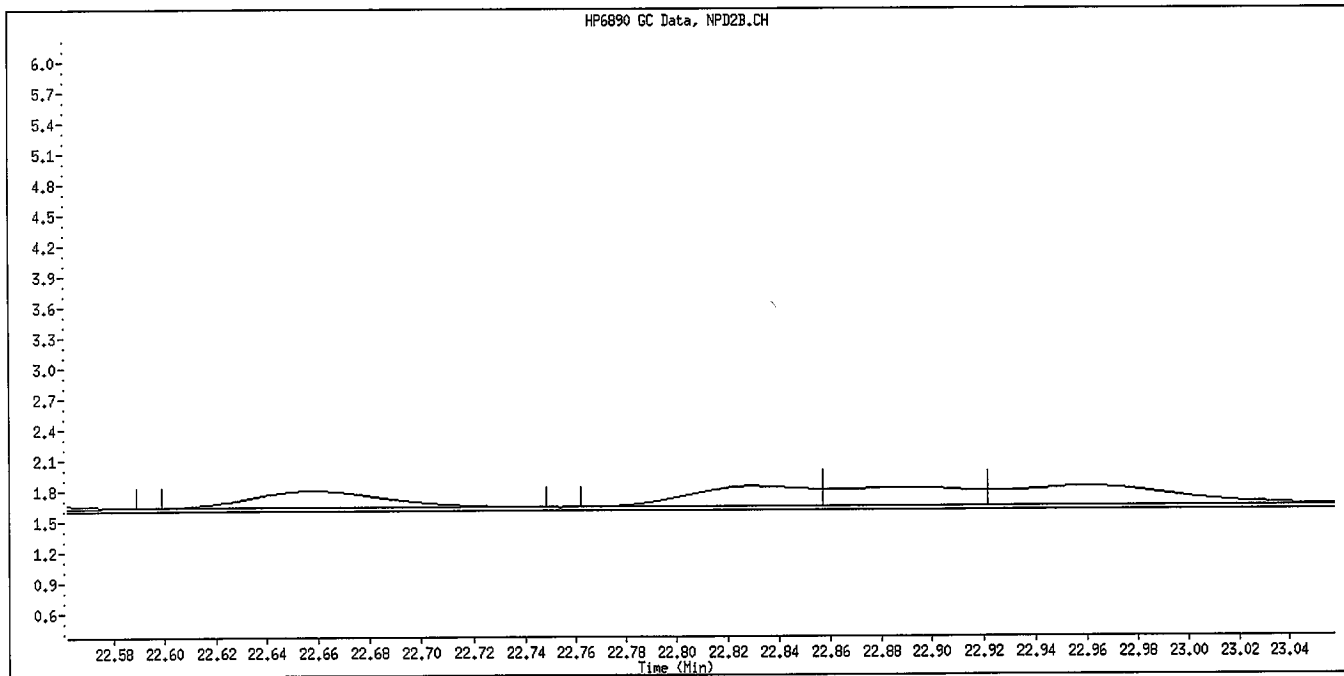
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

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08/07

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Trichloronate
CAS #:
Report Date: 08/07/2009



Original Integration

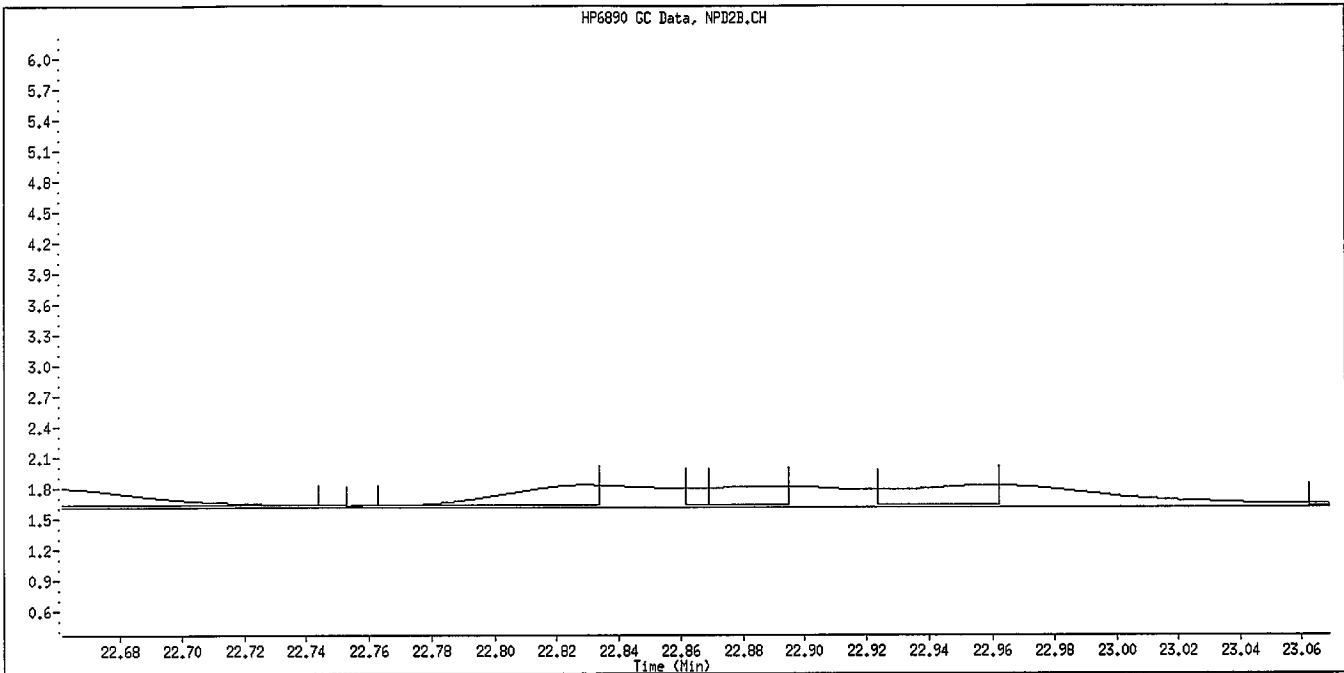


Manual Integration

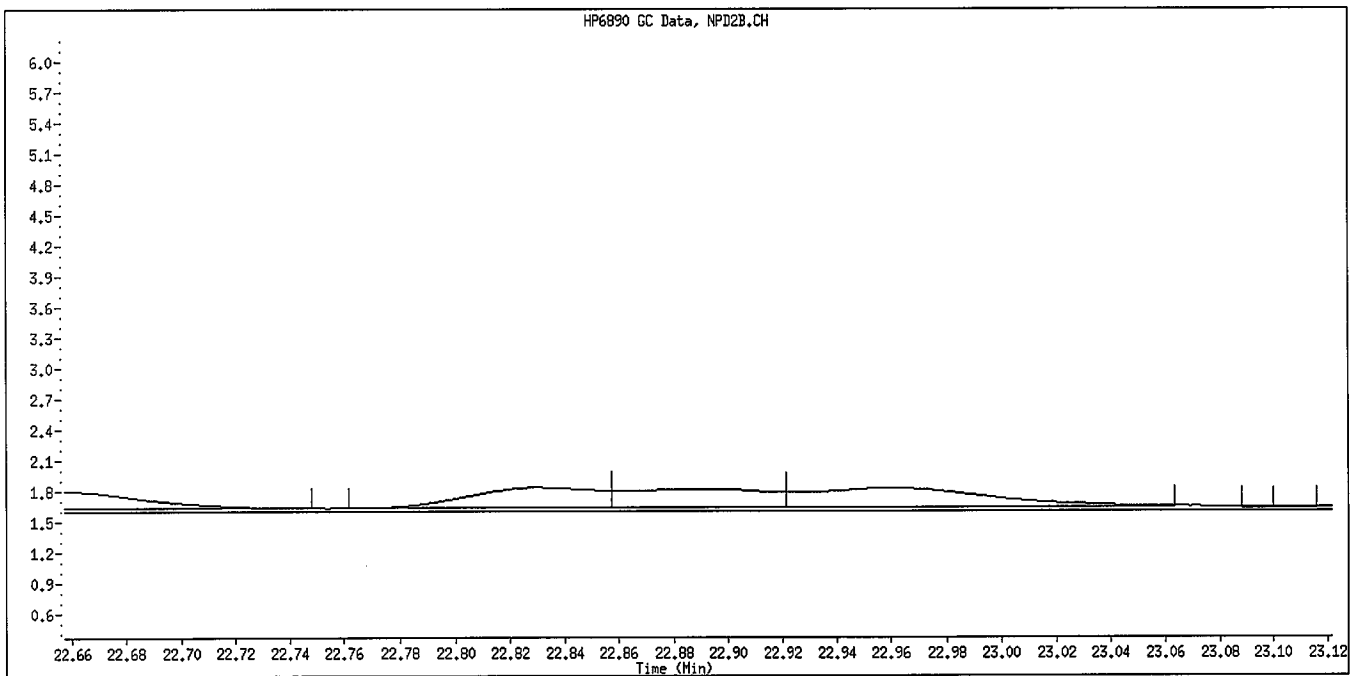
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Parathion
CAS #:
Report Date: 08/07/2009



Original Integration

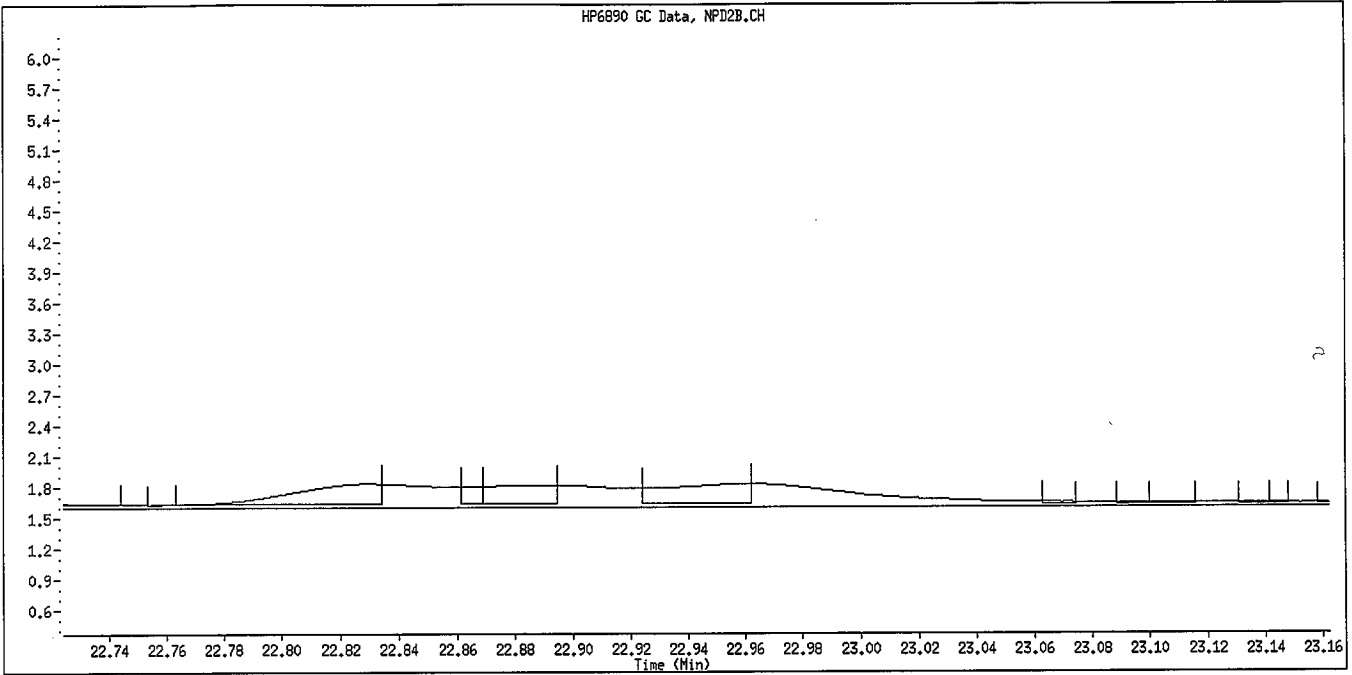


Manual Integration

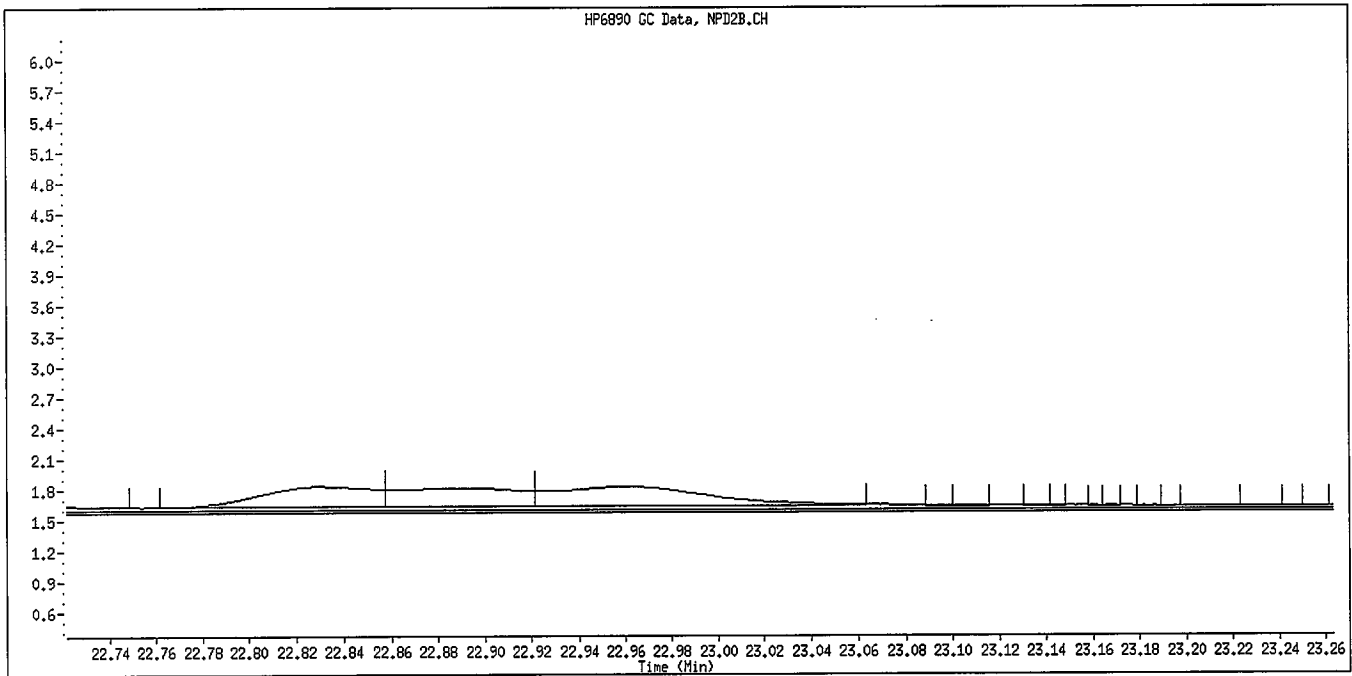
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Fenthion
CAS #:
Report Date: 08/07/2009



Original Integration

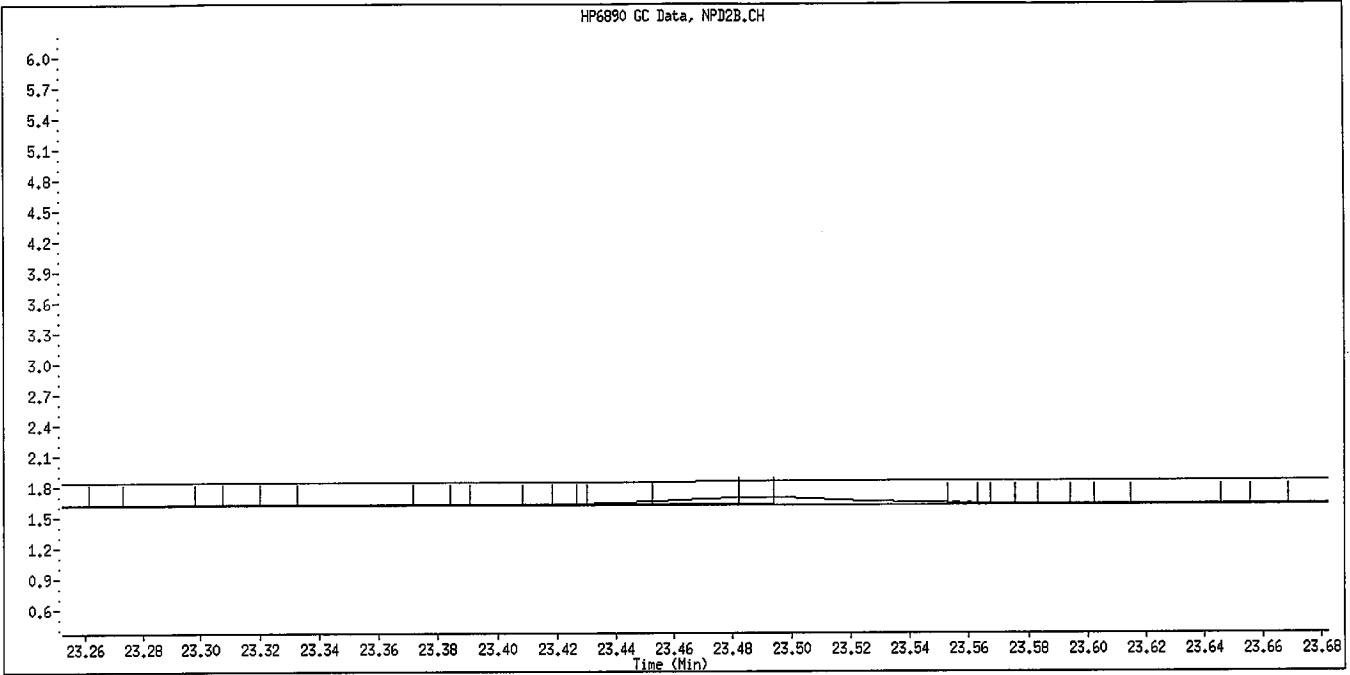


Manual Integration

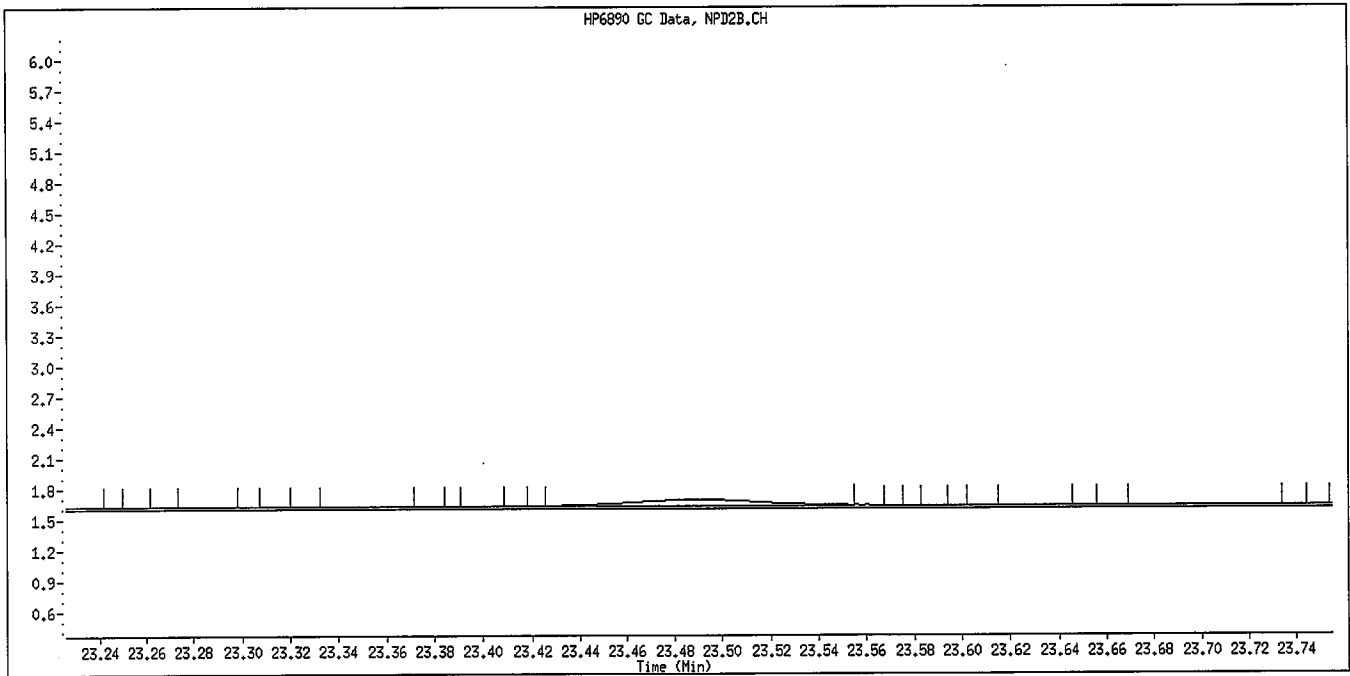
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Merphos-A (Merphos)
CAS #:
Report Date: 08/07/2009



Original Integration

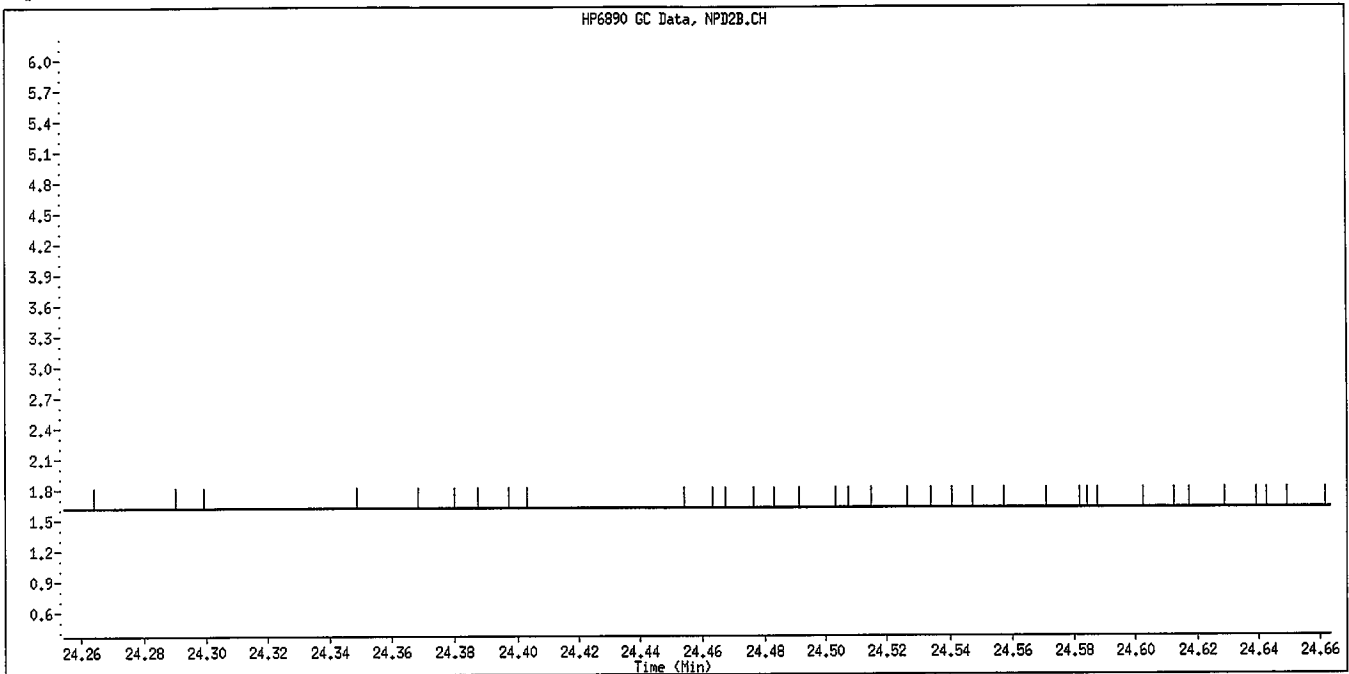


Manual Integration

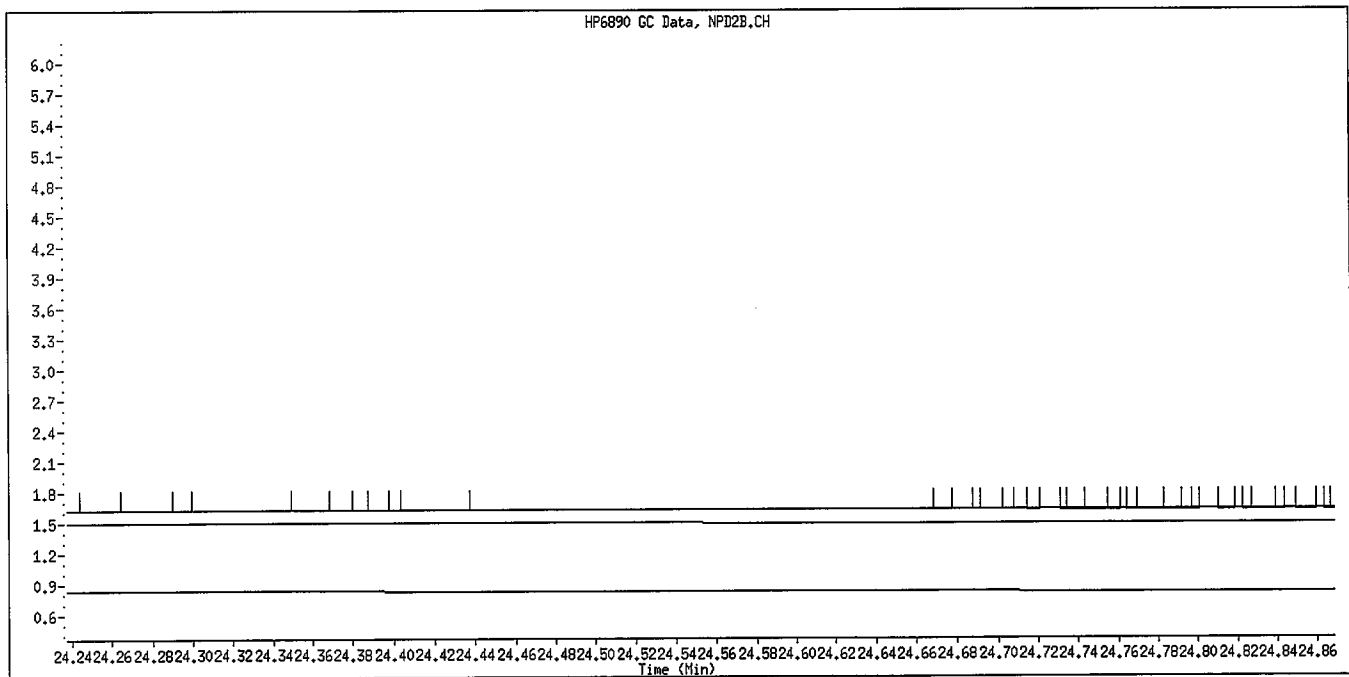
Manually Integrated By: williamst
Manual Integration Reason: Unknown

williamst

Data File Name: 009F0901.D
Inj. Date and Time: 06-AUG-2009 18:34
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV87509
Compound Name: Anilazine
CAS #:
Report Date: 08/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\010F1001.D
 Lab Smp Id: 8141 SS GSV87609 Client Smp ID: 8141 SS GSV87609
 Inj Date : 06-AUG-2009 19:10
 Operator : MPK/TLW Inst ID: GC_D.i
 Smp Info : 8141 SS GSV87609
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Meth Date : 07-Aug-2009 13:44 GC_D.i Quant Type: ISTD
 Cal Date : 06-AUG-2009 18:34 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	AMOUNTS					ON-COL (ug/mL)
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	
1 o,o,o-TEPT	6.759	6.758	(0.417)	1982981	2.00000	2.142
2 Dichlorvos	8.952	8.952	(0.553)	820110	2.00000	1.988
\$ 3 Chlormefos	12.884	12.885	(0.796)	1049387	2.00000	1.693
4 Mevinphos	13.007	13.006	(0.803)	396793	2.00000	1.578
5 Demeton-O	15.938	15.939	(0.984)	783301	0.65000	2.068
6 Thionazin	16.068	16.067	(0.992)	1242073	2.00000	2.214
* 7 Tributylphosphate	16.194	16.193	(1.000)	989795	2.00000	
8 Ethoprop	16.334	16.332	(1.009)	991713	2.00000	1.968
9 Naled	16.922	16.921	(1.045)	293536	2.00000	1.681
10 Sulfotepp	17.234	17.234	(1.064)	1523384	2.00000	1.842 (M)
11 Phorate	17.259	17.268	(1.066)	669687	2.00000	1.601 (M)
12 Demeton-S	17.967	17.962	(1.109)	35517	1.36000	0.09345
13 Simazine	18.368	18.368	(1.134)	310718	2.00000	2.770
14 Atrazine / Propazine	18.433	18.434	(1.138)	961286	4.00000	4.232
15 Dimethoate	18.572	18.569	(1.147)	1043639	2.00000	2.161
16 Diazinon	18.968	18.967	(1.171)	894541	2.00000	1.823
17 Disulfoton	19.229	19.231	(1.187)	968530	2.00000	1.954
18 Methyl Parathion	21.132	21.132	(0.736)	687687	2.00000	1.965
19 Ronnel	21.221	21.222	(0.739)	819203	2.00000	1.936
20 Malathion	22.493	22.492	(0.784)	630611	2.00000	1.857
21 Chlorpyrifos	22.644	22.644	(0.789)	779213	2.00000	1.974
22 Trichloronate	22.818	22.819	(0.795)	842452	2.00000	1.730
23 Parathion	22.866	22.866	(0.797)	901002	2.00000	2.044
24 Fenthion	22.941	22.942	(0.799)	829378	2.00000	1.911
25 Merphos-A (Merphos)	23.474	23.472	(0.818)	49502	2.00000	0.2815
26 Anilazine	24.453	24.451	(0.852)	23396	2.00000	0.8232 (M)
27 Tetrachlorvinphos (stirophos)	25.868	25.869	(0.901)	517991	2.00000	1.864
28 Tokuthion	26.043	26.043	(0.907)	908701	2.00000	1.961
29 Merphos-B (Merphos oxone)	26.175	26.176	(0.912)	772553	2.00000	11.92 (A)
30 Carbophenothion methyl	26.998	26.999	(0.941)	436501	2.00000	1.348
31 Fensulfothion	27.238	27.237	(0.949)	544086	2.00000	1.947
32 Bolstar	27.346	27.347	(0.953)	881894	2.00000	1.988
33 Carbophenothion	27.458	27.460	(0.957)	782536	2.00000	2.111

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Famphur	27.643	27.644	(0.963)	772985	2.00000	2.282
\$ 35 Triphenyl phosphate	27.933	27.932	(0.973)	567174	2.00000	1.789
36 EPN	28.238	28.240	(0.984)	797078	2.00000	2.192
37 Phosmet	28.366	28.366	(0.988)	677199	2.00000	2.275
* 38 TOCP	28.704	28.705	(1.000)	732545	2.00000	
39 Azinphos-methyl	28.815	28.816	(1.004)	449646	2.00000	1.818
40 Azinphos-ethyl	29.128	29.127	(1.015)	575359	2.00000	2.165
41 Coumaphos	29.454	29.453	(1.026)	451547	2.00000	1.896
M 42 Total Demeton				818818	2.00000	2.162
M 43 Merphos				822055	2.00000	1.909

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 D.i
 Lab File ID: 010F1001.D
 Lab Smp Id: 8141 SS GSV87609
 Analysis Type: SV
 Quant Type: ISTD
 Operator: MPK/TLW
 Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0806092.B\8141A-2.m
 Misc Info:

Calibration Date: 06-AUG-2009
 Calibration Time: 16:45
 Client Smp ID: 8141 SS GSV8760
 Level:
 Sample Type:

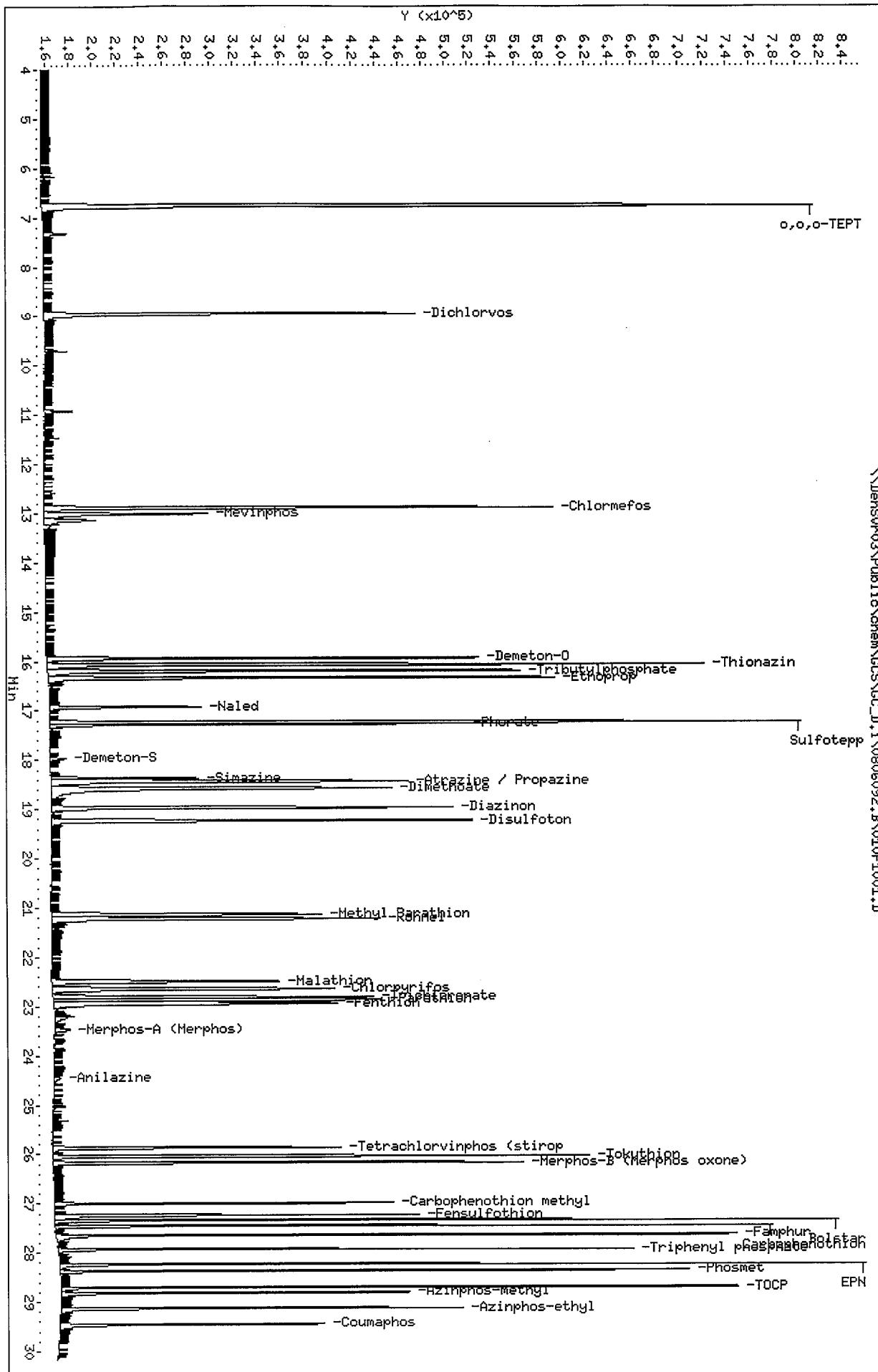
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	1016126	508063	2032252	989795	-2.59
38 TOCP	752526	376263	1505052	732545	-2.66

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
7 Tributylphosphate	16.20	15.70	16.70	16.19	-0.00
38 TOCP	28.71	28.21	29.21	28.70	-0.00

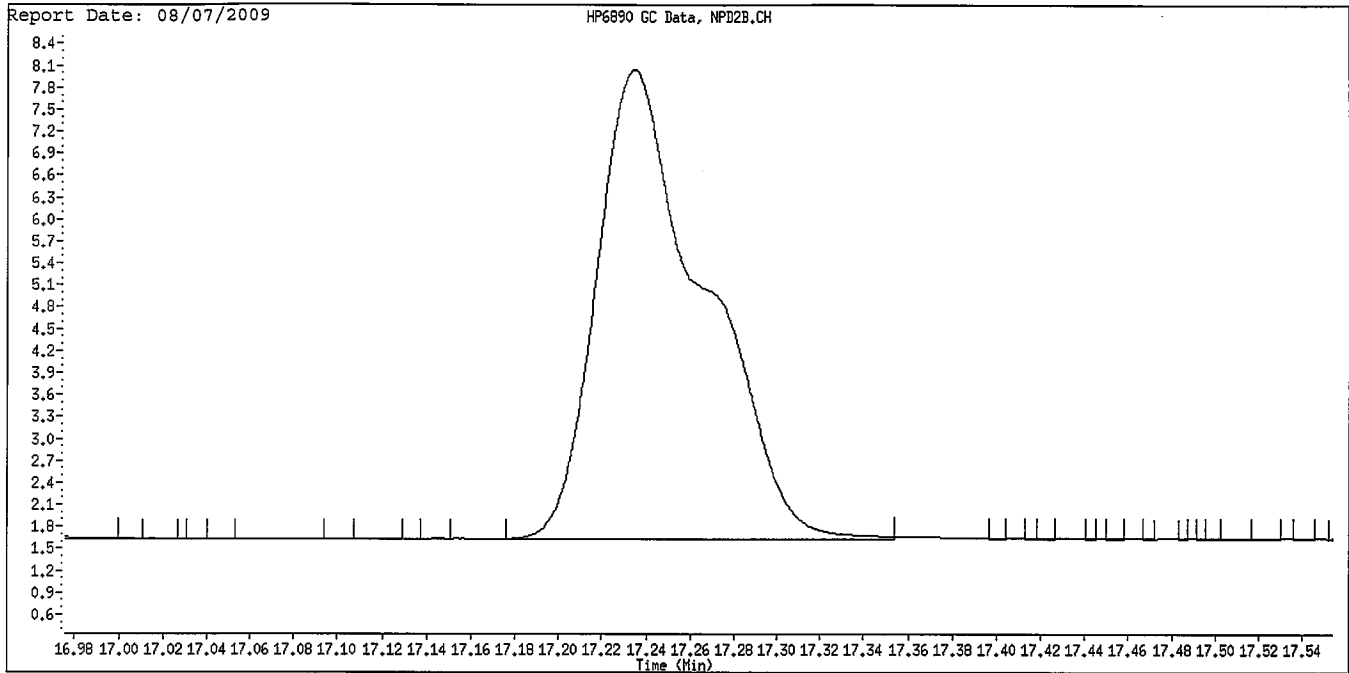
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Densv03\Public\chem\GCS\GC_D.1\0806092.B\010F1001.D
 Date: 06-AUG-2009 19:10
 Client ID: 8141 SS GSV87609
 Sample Info: 8141 SS GSV87609
 Column phase: RTX-OPPast

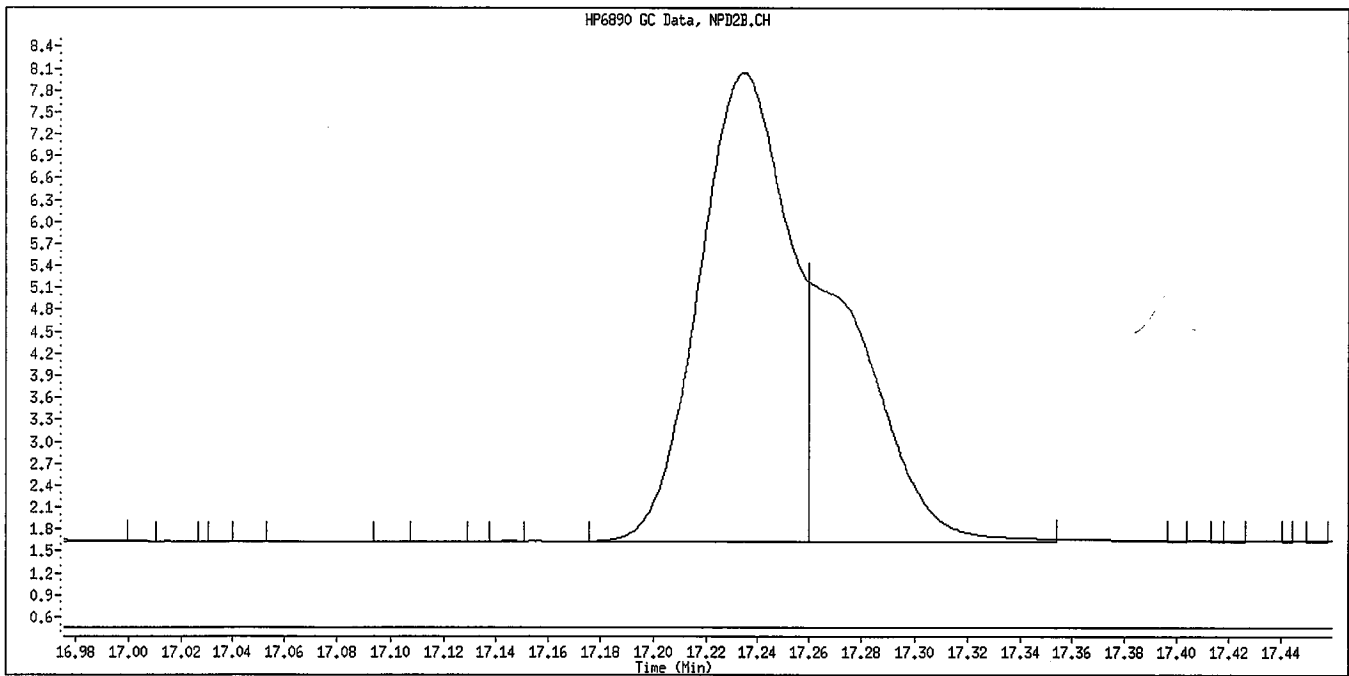
Instrument: GC_D.1
 Operator: HPK/TLM
 Column diameter: 0.32



Data File Name: 010F1001.D
Inj. Date and Time: 06-AUG-2009 19:10
Instrument ID: GC_D.i
Client ID: 8141 SS GSV87609
Compound Name: Sulfotepp
CAS #:



Original Integration

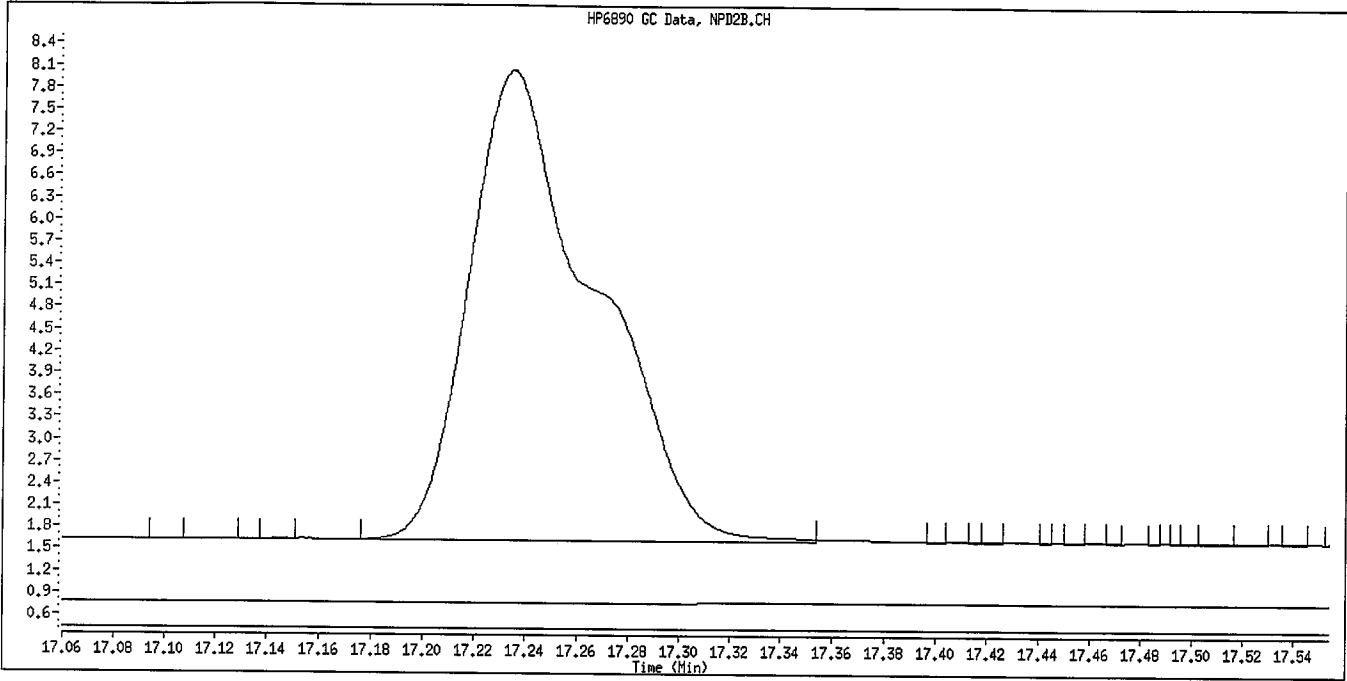


Manual Integration

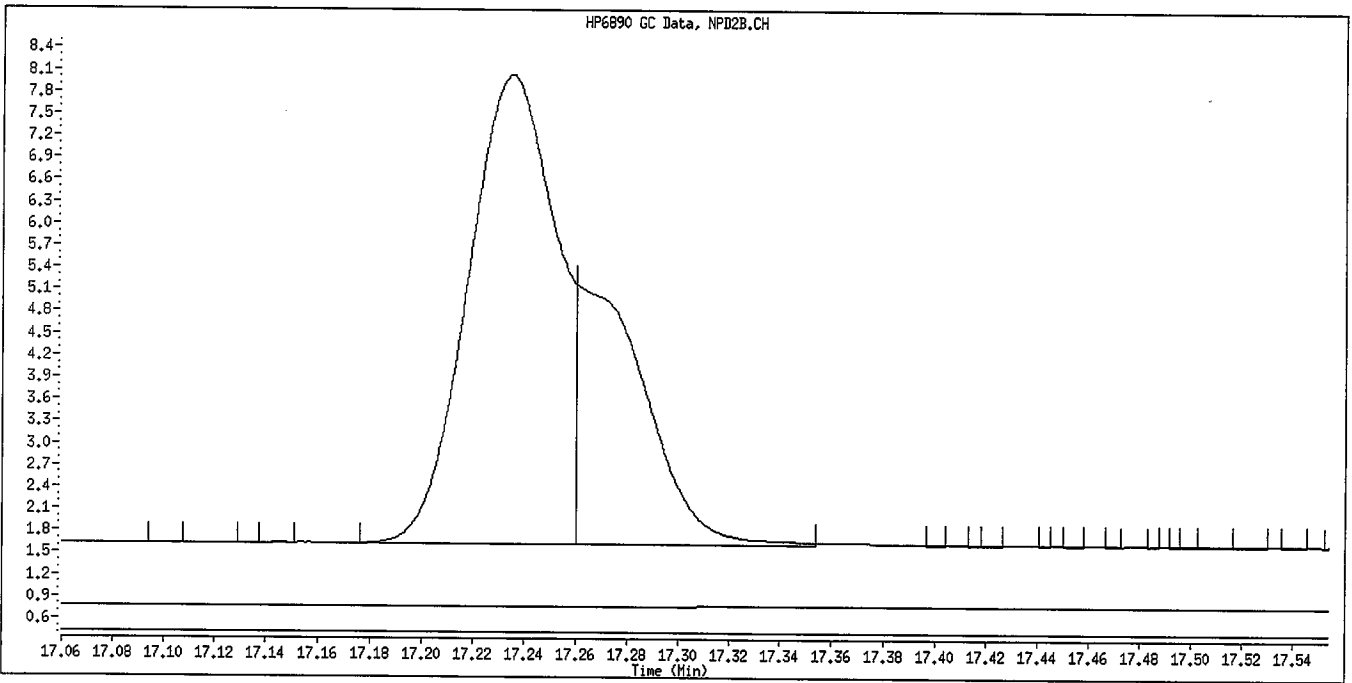
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

williamst

Data File Name: 010F1001.D
Inj. Date and Time: 06-AUG-2009 19:10
Instrument ID: GC_D.i
Client ID: 8141 SS GSV87609
Compound Name: Phorate
CAS #:
Report Date: 08/07/2009



Original Integration

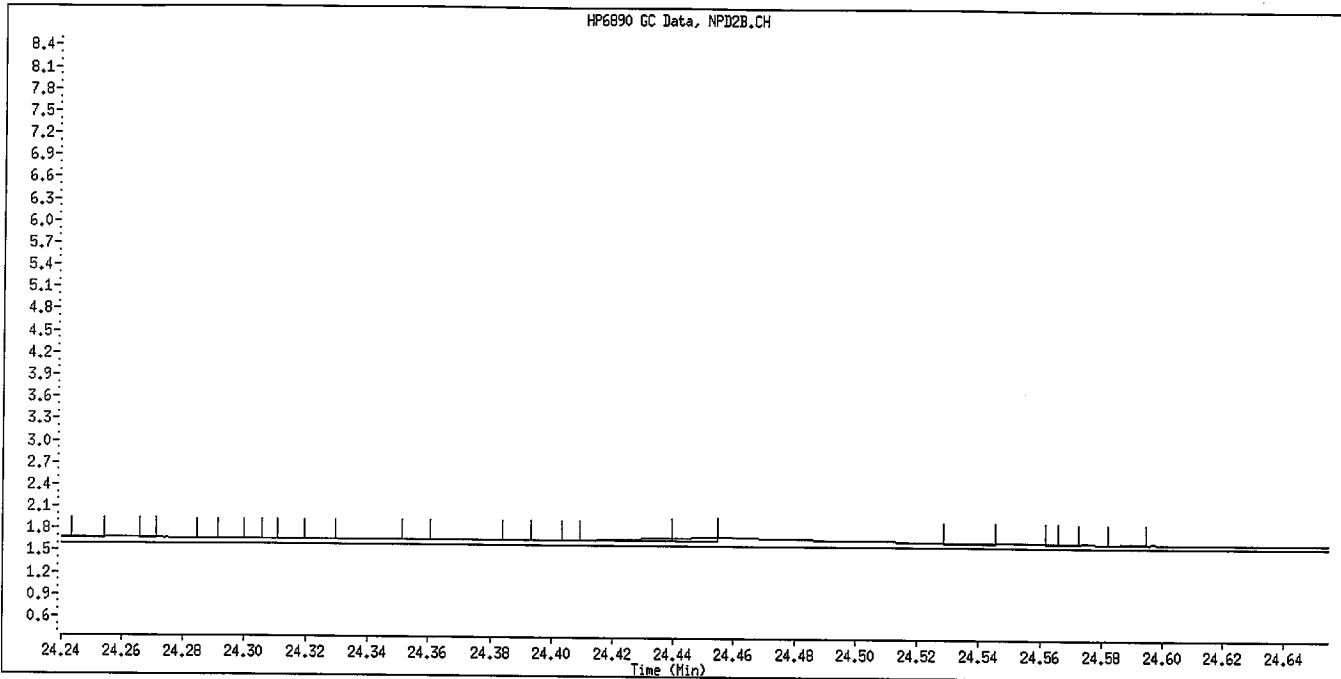


Manual Integration

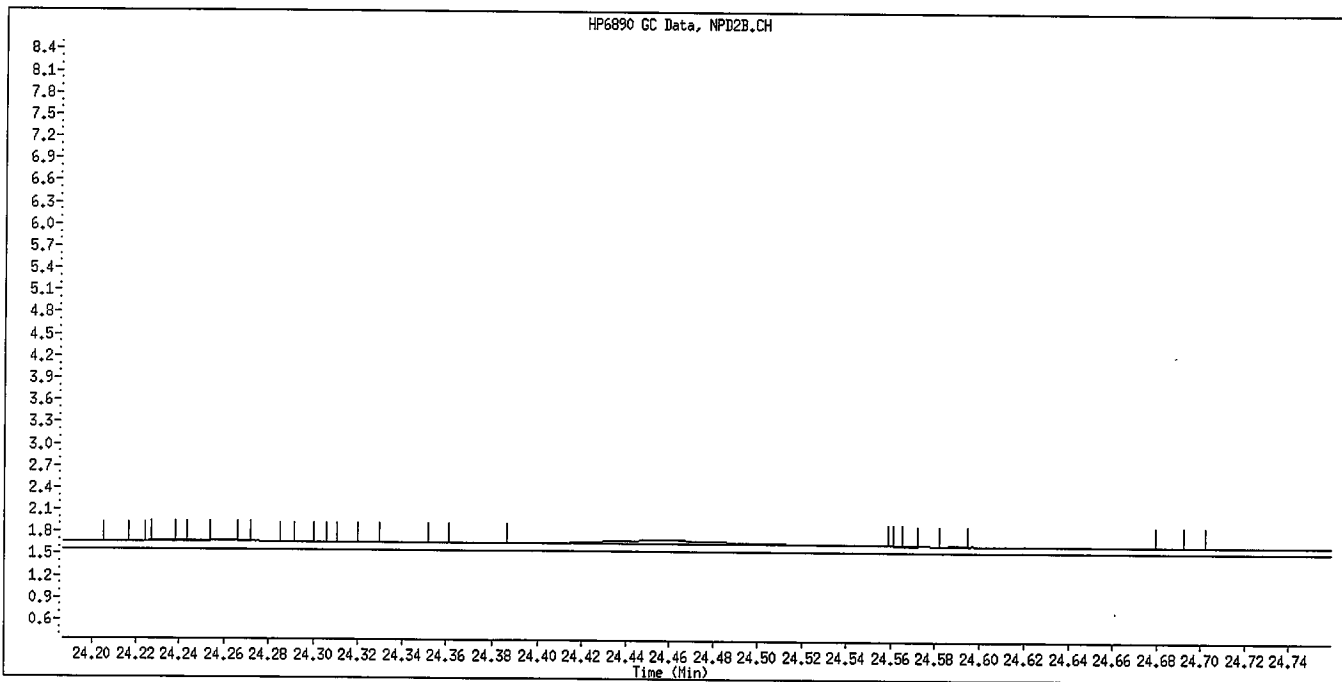
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Handwritten signature:
W.F. S. 8/7/09

Data File Name: 010F1001.D
Inj. Date and Time: 06-AUG-2009 19:10
Instrument ID: GC_D.i
Client ID: 8141 SS GSV87609
Compound Name: Anilazine
CAS #:
Report Date: 08/07/2009



Original Integration



Manual Integration

WJ ST 8/10/09

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9H050234

Client: Northgate Environmental

Batch(es) #: 9218437

Associated Samples: 1

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

Signature/Date: *[Signature]* 8/11/09

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>
D9H050234	1	SE	LHJ511AD	20090811	6020TOTA	9218437	AG081009A	024
D9H050234	1	AS	LHJ511AC	20090811	6020TOTA	9218437	AG081009A	024

**METALS
PREPARATION LOGS
ICP-MS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Batch Number: 9218437

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By: JRW

Prep Date: ~~08/06/09~~ 8/7/09
Due Date: 08/17/09

<u>Lot</u>	<u>Work Order</u>		<u>Initial Weight/Volume</u>
D9H060000 Water	LHQK3	B Due Date: 08/17/09 SDG:	50 mL
D9H060000 Water	LHQK3	C Due Date: 08/17/09 SDG:	50 mL
D9H050230 Water	LHJ5J Total	Due Date: 08/17/09 SDG:	50 mL
D9H050230 Water	LHJ5J Total	Due Date: 08/17/09 SDG:	50 mL
D9H050230 Water	LHJ5J Total	Due Date: 08/17/09 SDG:	50 mL
D9H050234 Water	LHJ51 Total	Due Date: 08/17/09 SDG:	50 mL

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
8/10/09*

*✓
8/12/09*

METALS PREP SHEET
SOP: DEN-IP-0014



TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH # 9218437
PREP DATE: 8/7/2009

ALLIQUOTTED BY: JRW
DIGESTED BY: JRW

CONSUMABLES USED

Digestion Cups: Manufacturer: Environmental Express **Lot #:** A901LS268
 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-3775-09	6/23/10	100uL	15
2008Cal-2	STD-2637-09	5/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	3

TEMPERATURE CYCLES

Thermometer ID: 4110 Block & Cup #: 3/22

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃	700	93	1115	92
HNO ₃	1130	92	1200	96
HNO ₃				

Samples and QC revolved to: 50 mL Analyst's Initials JRW

COMMENTS:

I certify that all information above is correct and complete.

Signature: [Handwritten Signature]

Date: 8/7/09

**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

Aug-10-2009

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	1,000.0

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026 Volume (ml): 100.00
Date Prep./Opened: 04-01-2009
Date Expires(1): 12-01-2009 (1 Year)
pipette: Met 21

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Se	1,000.0	1.0000

STD3611-09, ICP-MS 1ppm Sn/Zn Analyst: DIAZL
 Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 10.000
 Date Prep./Opened: 06-16-2009
 Date Expires(1): 10-01-2009 (1 Year)

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
1000 Zn	10.000	1.0000

Parent Std No.: STD3610-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000
 Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	10.000	1.0000

STD4601-09, ICP-MS (024) INT STD BRC Analyst: DIAZL
 Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 250.00
 Date Prep./Opened: 08-03-2009
 Date Expires(1): 11-10-2009 (1 Year)
 Date Expires(2): 12-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20

Parent Std No.: STD1469-09, Germanium Stock Aliquot Amount (ml): 0.7500
 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	3,000.0

Parent Std No.: STD1972-09, Lithium 6 Stock Aliquot Amount (ml): 1.0000
 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	4,000.0

Parent Std No.: STD1973-09, Indium Stock Aliquot Amount (ml): 0.2500
 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	1,000.0

Parent Std No.: STD6317-08, Scandium Stock Aliquot Amount (ml): 0.5000
 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	2,000.0

Parent Std No.: STD6318-08, Holmium Stock Aliquot Amount (ml): 0.2500
 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	1,000.0

STD4712-09, ICP-MS BLANK

Solvent: Water
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 09-10-2009 (1 Month)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Analyst: DIAZL
 Volume (ml): 1,000.0

Parent Std No.: STD4711-09, NITRIC ACID Aliquot Amount (ml): 50.000

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
HNO3	100.00	5.0000

STD4713-09, ICP-MS 10 ppm Sn

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 03-01-2010 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 21 and Met 8

Analyst: DIAZL
 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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1,000.0	10.000

STD4714-09, ICP-MS 100 ppb cal

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 08-11-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20

Analyst: DIAZL
 Volume (ml): 50.000

Parent Std No.: STD3773-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
------------------	----------------------------	--------------------------

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.: STD3862-09, Iron Stock

Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	5,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn

Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4715-09, ICP-MS CCV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 100.00

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ag	20.000	50.000
Al	20.000	50.000
As	20.000	50.000
Ba	20.000	50.000
Be	20.000	50.000
Cd	20.000	50.000
Co	20.000	50.000
Cr	20.000	50.000
Cu	20.000	50.000
Mn	20.000	50.000
Ni	20.000	50.000

Pb	20.000	50.000
Se	20.000	50.000
Th	20.000	50.000
Tl	20.000	50.000
U	20.000	50.000
V	20.000	50.000
Zn	20.000	50.000

Parent Std No.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	50.000
Sb	20.000	50.000

Parent Std No.: STD3862-09, Iron Stock Aliquot Amount (ml): 0.2500

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Fe	1,000.0	2,500.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	50.000

STD4716-09, ICP-MS RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 10.000

Parent Std No.: STD3611-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	1.0000	0.0090
1000 Zn	1.0000	0.0090

Parent Std No.: STD4714-09, ICP-MS 100 ppb cal Aliquot Amount (ml): 0.1000
 Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 08-11-2009

<u>Component</u>	<u>Initial Conc (ug/L)</u>	<u>Final Conc (mg/L)</u>
Mo	100.00	0.0010
Sb	100.00	0.0010
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
Fe	5,000.0	0.0500
Sn	100.00	0.0010

STD4717-09, ICP-MS AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (2 Days)
 pipettes: Met 20 and Met 8

Volume (ml): 10.000

Parent Std No.: STD4716-09, ICP-MS RL STD

Aliquot Amount (ml): 2.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Sn	0.0090	0.0018
1000 Zn	0.0090	0.0018
Mo	0.0010	0.0002
Sb	0.0010	0.0002
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
Fe	0.0500	0.0100
Sn	0.0010	0.0002

STD4718-09, ICP-MS ICSA

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 09-10-2009 (1 Month)
 Date Expires(2): 08-01-2010 (None)
 pipettes: Met 8

Volume (ml): 50.000

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 5.0000
 Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

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

STD4719-09, ICP-MS ICSAB

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (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.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.0500

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD4542-09, ICPMS Interferent Check Standard Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 07-31-2010 Parent Date Expires(2): 08-01-2010

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/L)</u>
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.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	100.00

STD4720-09, ICPMS LR STD 1000 ppb

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20 and Met 8

Parent Std No.: STD3774-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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.: STD3775-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 06-23-2010 Parent Date Expires(2): 07-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	20.000	1,000.0
Sb	20.000	1,000.0

Parent Std No.: STD4713-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 08-11-2009 Parent Date Expires(2): 03-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sn	10.000	1,000.0

STD4721-09, ICPMS ICV

Analyst: DIAZL

Solvent: 5% HNO3

Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 08-10-2009

Date Expires(1): 08-11-2009 (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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/L)</u>
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

STD4722-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 pipettes: Met 21 and Met 8

Volume (ml): 50.000

Parent Std No.: STD1853-09, 1 mg/l Se

Aliquot Amount (ml): 0.1000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Se	1.0000	0.0020

STD4723-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022
 Date Prep./Opened: 08-10-2009
 Date Expires(1): 08-11-2009 (1 Day)
 Date Expires(2): 05-01-2010 (None)
 pipettes: Met 20

Volume (ml): 100.00

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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
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

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Mo	0.2000	2.0000
Sb	0.2000	2.0000
Sn	1.0000	10.000

Parent Std No.: STD3108-09, ICP-MS BRC LLCCV 1

Aliquot Amount (ml): 1.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Nb	4.0000	40.000
Pd	0.1000	1.0000
Pt	0.1000	1.0000
W	0.5000	5.0000

Reviewed By:

LRD 08/10/2009

File
AG081009A

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
3	Cal Blank				1.0 08/10/09 18:06		<input type="checkbox"/>
4	100 ppb				1.0 08/10/09 18:09		<input type="checkbox"/>
5	ICV				1.0 08/10/09 18:12		<input type="checkbox"/>
6	RLIV				1.0 08/10/09 18:15		<input type="checkbox"/>
7	ICB				1.0 08/10/09 18:17		<input type="checkbox"/>
8	RL STD				1.0 08/10/09 18:20		<input type="checkbox"/>
9	AFCEE RL				1.0 08/10/09 18:23		<input type="checkbox"/>
10	ALTSe				1.0 08/10/09 18:26		<input type="checkbox"/>
11	ICSA				1.0 08/10/09 18:28		<input type="checkbox"/>
12	ICSAB				1.0 08/10/09 18:31		<input type="checkbox"/>
13	RINSE				1.0 08/10/09 18:34		<input type="checkbox"/>
14	LR				1.0 08/10/09 18:36		<input type="checkbox"/>
15	RINSE				1.0 08/10/09 18:39		<input type="checkbox"/>
16	CCV				1.0 08/10/09 18:42		<input type="checkbox"/>
17	CCB				1.0 08/10/09 18:45		<input type="checkbox"/>
18	RLCV				1.0 08/10/09 18:47		<input type="checkbox"/>
19	LG9KP	D9G300166-1	9215482	04	1.0 08/10/09 18:50	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
20	CCV				1.0 08/10/09 18:53		<input type="checkbox"/>
21	CCB				1.0 08/10/09 18:55		<input type="checkbox"/>
22	RLCV				1.0 08/10/09 18:58		<input type="checkbox"/>
23	LG8F7	D9G290252-1	9212201	46	1.0 08/10/09 19:01		<input type="checkbox"/>
24	LG8F7P5	D9G290252	9212201		5.0 08/10/09 19:04		<input type="checkbox"/>
25	LG8F7Z	D9G290252-1	9212201		1.0 08/10/09 19:06		<input type="checkbox"/>
26	LG8F7S	D9G290252-1	9212201	46	1.0 08/10/09 19:09		<input type="checkbox"/>
27	LG8F7D	D9G290252-1	9212201	46	1.0 08/10/09 19:12		<input type="checkbox"/>
28	CCV				1.0 08/10/09 19:15		<input type="checkbox"/>
29	CCB				1.0 08/10/09 19:17		<input type="checkbox"/>
30	RLCV				1.0 08/10/09 19:20		<input type="checkbox"/>
31	LHFL0B	D9H030000	9215265	46	1.0 08/10/09 19:23		<input type="checkbox"/>
32	LHFL0C	D9H030000	9215265	46	1.0 08/10/09 19:26		<input type="checkbox"/>
33	LHA17	D9G300337-1	9215265	46	1.0 08/10/09 19:28	<i>8/11/09 did not use.</i>	<input type="checkbox"/>
34	CCV				1.0 08/10/09 19:31		<input type="checkbox"/>
35	CCB				1.0 08/10/09 19:34		<input type="checkbox"/>
36	RLCV				1.0 08/10/09 19:37		<input type="checkbox"/>
37	LG86WB	D9G300000	9211083	04	1.0 08/10/09 19:39		<input type="checkbox"/>
38	LG86WC	D9G300000	9211083	04	1.0 08/10/09 19:42		<input type="checkbox"/>
39	LG8K3	D9G290261-1	9211083	04	1.0 08/10/09 19:45		<input type="checkbox"/>
40	LG8LE	D9G290261-3	9211083	04	1.0 08/10/09 19:48		<input type="checkbox"/>
41	LG8LF	D9G290261-4	9211083	04	1.0 08/10/09 19:50		<input type="checkbox"/>
42	LG8LH	D9G290261-5	9211083	04	1.0 08/10/09 19:53		<input type="checkbox"/>
43	LG8LJ	D9G290261-6	9211083	04	1.0 08/10/09 19:56		<input type="checkbox"/>
44	LG8LK	D9G290261-7	9211083	04	1.0 08/10/09 19:59		<input type="checkbox"/>
45	CCV				1.0 08/10/09 20:01		<input type="checkbox"/>
46	CCB				1.0 08/10/09 20:04		<input type="checkbox"/>
47	RLCV				1.0 08/10/09 20:07		<input type="checkbox"/>
48	LG8LKP5	D9G290261	9211083		5.0 08/10/09 20:10		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	LG8LKZ	D9G290261-7	9211083		1.0	08/10/09 20:12	<input type="checkbox"/>
50	LG8LKS	D9G290261-7	9211083	04	1.0	08/10/09 20:15	<input type="checkbox"/>
51	LG8LKD	D9G290261-7	9211083	04	1.0	08/10/09 20:18	<input type="checkbox"/>
52	LG8LL	D9G290261-8	9211083	04	1.0	08/10/09 20:20	<input type="checkbox"/>
53	LG8LM	D9G290261-9	9211083	04	1.0	08/10/09 20:23	<input type="checkbox"/>
54	LG8LN	D9G290261-10	9211083	04	1.0	08/10/09 20:26	<input type="checkbox"/>
55	LG8LP	D9G290261-11	9211083	04	1.0	08/10/09 20:29	<input type="checkbox"/>
56	CCV				1.0	08/10/09 20:32	<input type="checkbox"/>
57	CCB				1.0	08/10/09 20:34	<input type="checkbox"/>
58	RLCV				1.0	08/10/09 20:37	<input type="checkbox"/>
59	LG7LLB	D9G290000	9210208	46	1.0	08/10/09 20:40	<input type="checkbox"/>
60	LG7LLC	D9G290000	9210208	46	1.0	08/10/09 20:42	<input type="checkbox"/>
61	LG3FP	D9G240333-2	9210209	U1	1.0	08/10/09 20:45	<input type="checkbox"/>
62	LG3FR	D9G240333-3	9210209	U1	1.0	08/10/09 20:48	<input type="checkbox"/>
63	LG3FRP5	D9G240333	9210209		5.0	08/10/09 20:51	<input type="checkbox"/>
64	LG3FRZ	D9G240333-3	9210209		1.0	08/10/09 20:53	<input type="checkbox"/>
65	LG3FRS	D9G240333-3	9210209	U1	1.0	08/10/09 20:56	<input type="checkbox"/>
66	CCV				1.0	08/10/09 20:59	<input type="checkbox"/>
67	CCB				1.0	08/10/09 21:01	<input type="checkbox"/>
68	RLCV				1.0	08/10/09 21:04	<input type="checkbox"/>
69	LG3FRD	D9G240333-3	9210209	U1	1.0	08/10/09 21:07	<input type="checkbox"/>
70	LG3FV	D9G240333-4	9210208	U1	1.0	08/10/09 21:09	<input type="checkbox"/>
71	LG3FX	D9G240333-5	9210208	U1	1.0	08/10/09 21:12	<input type="checkbox"/>
72	LG6XM	D9G240333-12	9210209		1.0	08/10/09 21:15	<input type="checkbox"/>
73	LG6XV	D9G240333-13	9210209	U1	1.0	08/10/09 21:18	<input type="checkbox"/>
74	LG6XW	D9G240333-14	9210208	U1	1.0	08/10/09 21:20	<input type="checkbox"/>
75	LG6X0	D9G240333-15	9210208	U1	1.0	08/10/09 21:23	<input type="checkbox"/>
76	CCV				1.0	08/10/09 21:26	<input type="checkbox"/>
77	CCB				1.0	08/10/09 21:28	<input type="checkbox"/>
78	RLCV				1.0	08/10/09 21:31	<input type="checkbox"/>
79	RINSE				1.0	08/10/09 21:34	<input type="checkbox"/>
80	RINSE				1.0	08/10/09 21:37	<input type="checkbox"/>
81	RINSE				1.0	08/10/09 21:39	<input type="checkbox"/>
82	RINSE				1.0	08/10/09 21:42	<input type="checkbox"/>
83	RINSE				1.0	08/10/09 21:45	<input type="checkbox"/>
84	RINSE				1.0	08/10/09 21:48	<input type="checkbox"/>
85	Cal Blank				1.0	08/10/09 21:50	<input type="checkbox"/>
86	Cal Blank				1.0	08/10/09 21:53	<input type="checkbox"/>
87	100 ppb				1.0	08/10/09 21:56	<input type="checkbox"/>
88	CCV				1.0	08/10/09 21:58	<input type="checkbox"/>
89	CCB				1.0	08/10/09 22:01	<input type="checkbox"/>
90	RLCV				1.0	08/10/09 22:04	<input type="checkbox"/>
91	ICSA				1.0	08/10/09 22:07	<input type="checkbox"/>
92	ICSAB				1.0	08/10/09 22:09	<input type="checkbox"/>
93	WASH				1.0	08/10/09 22:12	<input type="checkbox"/>
94	CCV				1.0	08/10/09 22:15	<input type="checkbox"/>

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 10:33:12

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
95	CCB				1.0 08/10/09 22:18		<input type="checkbox"/>
96	RLCV				1.0 08/10/09 22:20		<input type="checkbox"/>
97	LHFD8B	D9H030000	9215165	MS	1.0 08/10/09 22:23		<input type="checkbox"/>
98	LHFD8C	D9H030000	9215165	MS	1.0 08/10/09 22:26		<input type="checkbox"/>
99	LHEPK	D9H010152-2	9215165	MS	1.0 08/10/09 22:29		<input type="checkbox"/>
100	LHEPKP5	D9H010152	9215165		5.0 08/10/09 22:31		<input type="checkbox"/>
101	LHEPKZ	D9H010152-2	9215165		1.0 08/10/09 22:34		<input type="checkbox"/>
102	LHEPL	D9H010152-3	9215165	MS	1.0 08/10/09 22:37		<input type="checkbox"/>
103	LHEPM	D9H010152-4	9215165	MS	1.0 08/10/09 22:39		<input type="checkbox"/>
104	CCV				1.0 08/10/09 22:42		<input type="checkbox"/>
105	CCB				1.0 08/10/09 22:45		<input type="checkbox"/>
106	RLCV				1.0 08/10/09 22:48		<input type="checkbox"/>
107	LHH8KBF	D9H050000	9217128	MD	1.0 08/10/09 22:51		<input type="checkbox"/>
108	LHH8KCF	D9H050000	9217128	MD	1.0 08/10/09 22:53		<input type="checkbox"/>
109	LHG1RF	D9H040187-2	9217128	MD	1.0 08/10/09 22:56		<input type="checkbox"/>
110	LHG1RP5F	D9H040187	9217128		5.0 08/10/09 22:59		<input type="checkbox"/>
111	LHG1RZF	D9H040187-2	9217128		1.0 08/10/09 23:02		<input type="checkbox"/>
112	LHG1RSF	D9H040187-2	9217128	MD	1.0 08/10/09 23:04		<input type="checkbox"/>
113	LHG1RDF	D9H040187-2	9217128	MD	1.0 08/10/09 23:07		<input type="checkbox"/>
114	CCV				1.0 08/10/09 23:10		<input type="checkbox"/>
115	CCB				1.0 08/10/09 23:13		<input type="checkbox"/>
116	RLCV				1.0 08/10/09 23:15		<input type="checkbox"/>
117	LHH8TB	D9H050000	9217132	MS	1.0 08/10/09 23:18		<input type="checkbox"/>
118	LHH8TC	D9H050000	9217132	MS	1.0 08/10/09 23:21		<input type="checkbox"/>
119	LHG1P 5X	D9H040187-1	9217132	MS	5.0 08/10/09 23:24		<input type="checkbox"/>
120	LHG1PP25	D9H040187	9217132		25.0 08/10/09 23:26		<input type="checkbox"/>
121	RINSE				1.0 08/10/09 23:32		<input type="checkbox"/>
122	RINSE				1.0 08/10/09 23:34		<input type="checkbox"/>
123	RINSE				1.0 08/10/09 23:37		<input type="checkbox"/>
124	RINSE				1.0 08/10/09 23:40		<input type="checkbox"/>
125	RINSE				1.0 08/10/09 23:43		<input type="checkbox"/>
126	RINSE				1.0 08/10/09 23:45		<input type="checkbox"/>
127	Cal Blank				1.0 08/10/09 23:48	<i>Cal Blank did not use.</i>	<input type="checkbox"/>
128	Cal Blank				1.0 08/10/09 23:51		<input type="checkbox"/>
129	100 ppb				1.0 08/10/09 23:54		<input type="checkbox"/>
130	CCV				1.0 08/10/09 23:56		<input type="checkbox"/>
131	CCB				1.0 08/10/09 23:59		<input type="checkbox"/>
132	RLCV				1.0 08/11/09 00:02		<input type="checkbox"/>
133	LHH8KBF	D9H050000	9217128	MD	1.0 08/11/09 00:05		<input type="checkbox"/>
134	LHH8KCF	D9H050000	9217128	MD	1.0 08/11/09 00:07		<input type="checkbox"/>
135	LHG1RF 10X	D9H040187-2	9217128	MD	10.0 08/11/09 00:10		<input type="checkbox"/>
136	LHG1RP50F	D9H040187	9217128		50.0 08/11/09 00:13		<input type="checkbox"/>
137	LHG1RZF	D9H040187-2	9217128		1.0 08/11/09 00:16		<input type="checkbox"/>
138	LHG1RSF 1C	D9H040187-2	9217128	MD	10.0 08/11/09 00:18		<input type="checkbox"/>
139	LHG1RDF 1C	D9H040187-2	9217128	MD	10.0 08/11/09 00:21		<input type="checkbox"/>
140	CCV				1.0 08/11/09 00:24		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
141	CCB				1.0	08/11/09 00:27	<input type="checkbox"/>
142	RLCV				1.0	08/11/09 00:29	<input type="checkbox"/>
143	LHH8TB	D9H050000	9217132	MS	1.0	08/11/09 00:32	<input type="checkbox"/>
144	LHH8TC	D9H050000	9217132	MS	1.0	08/11/09 00:35	<input type="checkbox"/>
145	LHG1P 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:38	<input type="checkbox"/>
146	LHG1PP50	D9H040187	9217132		50.0	08/11/09 00:41	<input type="checkbox"/>
147	LHG1PZ	D9H040187-1	9217132		1.0	08/11/09 00:43	<input type="checkbox"/>
148	LHG1PS 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:46	<input type="checkbox"/>
149	LHG1PD 10X	D9H040187-1	9217132	MS	10.0	08/11/09 00:49	<input type="checkbox"/>
150	LHG21 20X	D9H040190-1	9217132	MS	20.0	08/11/09 00:51	<input type="checkbox"/>
151	CCV				1.0	08/11/09 00:54	<input type="checkbox"/>
152	CCB				1.0	08/11/09 00:57	<input type="checkbox"/>
153	RLCV				1.0	08/11/09 01:00	<input type="checkbox"/>
154	LHQK3B	D9H060000	9218437	MS	1.0	08/11/09 01:03	<input type="checkbox"/>
155	LHQK3C	D9H060000	9218437	MS	1.0	08/11/09 01:05	<input type="checkbox"/>
156	LHJ5J	D9H050230-1	9218437	MS	1.0	08/11/09 01:08	<input type="checkbox"/>
157	LHJ5JP5	D9H050230	9218437		5.0	08/11/09 01:11	<input type="checkbox"/>
158	LHJ5JZ	D9H050230-1	9218437		1.0	08/11/09 01:14	<input type="checkbox"/>
159	LHJ5JS	D9H050230-1	9218437	MS	1.0	08/11/09 01:16	<input type="checkbox"/>
160	LHJ5JD	D9H050230-1	9218437	MS	1.0	08/11/09 01:19	<input type="checkbox"/>
161	LHJ51	D9H050234-1	9218437	MS	1.0	08/11/09 01:22	<input type="checkbox"/>
162	CCV				1.0	08/11/09 01:25	<input type="checkbox"/>
163	CCB				1.0	08/11/09 01:27	<input type="checkbox"/>
164	RLCV				1.0	08/11/09 01:30	<input type="checkbox"/>
165	RINSE				1.0	08/11/09 01:33	<input type="checkbox"/>
166	RINSE				1.0	08/11/09 01:35	<input type="checkbox"/>
167	RINSE				1.0	08/11/09 01:38	<input type="checkbox"/>
168	RINSE				1.0	08/11/09 01:41	<input type="checkbox"/>
169	RINSE				1.0	08/11/09 01:44	<input type="checkbox"/>
170	RINSE				1.0	08/11/09 01:46	<input type="checkbox"/>
171	Cal Blank				1.0	08/11/09 01:49	<input type="checkbox"/>
172	Cal Blank				1.0	08/11/09 01:52	<input type="checkbox"/>
173	100 ppb				1.0	08/11/09 01:55	<input type="checkbox"/>
174	CCV				1.0	08/11/09 01:57	<input type="checkbox"/>
175	CCB				1.0	08/11/09 02:00	<input type="checkbox"/>
176	RLCV				1.0	08/11/09 02:03	<input type="checkbox"/>
177	LHT80BF	D9H080000	9220058	MD	1.0	08/11/09 02:06	<input type="checkbox"/>
178	LHT80CF	D9H080000	9220058	MD	1.0	08/11/09 02:08	<input type="checkbox"/>
179	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:11	<input type="checkbox"/>
180	LHQGCP5F	D9H060361	9220058		5.0	08/11/09 02:14	<input type="checkbox"/>
181	LHQGCZF	D9H060361-2	9220058		1.0	08/11/09 02:17	<input type="checkbox"/>
182	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:19	<input type="checkbox"/>
183	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:22	<input type="checkbox"/>
184	CCV				1.0	08/11/09 02:25	<input type="checkbox"/>
185	CCB				1.0	08/11/09 02:28	<input type="checkbox"/>
186	RLCV				1.0	08/11/09 02:30	<input type="checkbox"/>

TEL 8/11/09

Method: 6020 (ICP/MS) ICPMS_024 (024) Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q	
187	LHQGCF	D9H060361-2	9220058	MD	1.0	08/11/09 02:33		<input type="checkbox"/>
188	LHQGCSF	D9H060361-2	9220058	MD	1.0	08/11/09 02:36	For confirmation only. <i>TEL</i> 8/11/09	<input type="checkbox"/>
189	LHQGCDF	D9H060361-2	9220058	MD	1.0	08/11/09 02:39		<input type="checkbox"/>
190	CCV				1.0	08/11/09 02:41		<input type="checkbox"/>
191	CCB				1.0	08/11/09 02:44		<input type="checkbox"/>
192	RLCV				1.0	08/11/09 02:47		<input type="checkbox"/>
193	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:50		<input type="checkbox"/>
194	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:52	<i>TEL 8/11/09 Did not use.</i>	<input type="checkbox"/>
195	LHTW6B	D9H080000	9220029	MS	1.0	08/11/09 02:55		<input type="checkbox"/>
196	LHTW6C	D9H080000	9220029	MS	1.0	08/11/09 02:58		<input type="checkbox"/>
197	CCV				1.0	08/11/09 03:01		<input type="checkbox"/>
198	CCB				1.0	08/11/09 03:04		<input type="checkbox"/>
199	RLCV				1.0	08/11/09 03:06		<input type="checkbox"/>
200	LHLPQ	D9H060174-1	9220029	MS	1.0	08/11/09 03:09		<input type="checkbox"/>
201	LHLP9	D9H060174-2	9220029	MS	1.0	08/11/09 03:12		<input type="checkbox"/>
202	LHLQF	D9H060174-3	9220029	MS	1.0	08/11/09 03:15		<input type="checkbox"/>
203	LHLQG	D9H060174-4	9220029	MS	1.0	08/11/09 03:17		<input type="checkbox"/>
204	LHLQH	D9H060174-5	9220029	MS	1.0	08/11/09 03:20		<input type="checkbox"/>
205	LHLQJ	D9H060174-6	9220029	MS	1.0	08/11/09 03:23		<input type="checkbox"/>
206	CCV				1.0	08/11/09 03:26		<input type="checkbox"/>
207	CCB				1.0	08/11/09 03:29		<input type="checkbox"/>
208	RLCV				1.0	08/11/09 03:31		<input type="checkbox"/>
209	LHREN	D9H070161-1	9220029	MS	1.0	08/11/09 03:34		<input type="checkbox"/>
210	LHREN5	D9H070161	9220029		5.0	08/11/09 03:37		<input type="checkbox"/>
211	LHRENT	D9H070161-1	9220029		1.0	08/11/09 03:40		<input type="checkbox"/>
212	LHRENS	D9H070161-1	9220029	MS	1.0	08/11/09 03:42		<input type="checkbox"/>
213	LHREND	D9H070161-1	9220029	MS	1.0	08/11/09 03:45		<input type="checkbox"/>
214	LHRFD	D9H070161-2	9220029	MS	1.0	08/11/09 03:48		<input type="checkbox"/>
215	LHRFF	D9H070161-3	9220029	MS	1.0	08/11/09 03:51		<input type="checkbox"/>
216	LHRGP	D9H070161-4	9220029	MS	1.0	08/11/09 03:53		<input type="checkbox"/>
217	CCV				1.0	08/11/09 03:56		<input type="checkbox"/>
218	CCB				1.0	08/11/09 03:59		<input type="checkbox"/>
219	RLCV				1.0	08/11/09 04:02		<input type="checkbox"/>
220	LHRGR	D9H070161-5	9220029	MS	1.0	08/11/09 04:05		<input type="checkbox"/>
221	LHRGV	D9H070161-6	9220029	MS	1.0	08/11/09 04:07		<input type="checkbox"/>
222	LHRGW	D9H070161-7	9220029	MS	1.0	08/11/09 04:10		<input type="checkbox"/>
223	LHRGX	D9H070161-8	9220029	MS	1.0	08/11/09 04:13		<input type="checkbox"/>
224	LHRG1	D9H070161-9	9220029	MS	1.0	08/11/09 04:16		<input type="checkbox"/>
225	LHRG2	D9H070161-10	9220029	MS	1.0	08/11/09 04:19		<input type="checkbox"/>
226	LHRG6	D9H070161-11	9220029	MS	1.0	08/11/09 04:21		<input type="checkbox"/>
227	CCV				1.0	08/11/09 04:24		<input type="checkbox"/>
228	CCB				1.0	08/11/09 04:27		<input type="checkbox"/>
229	RLCV				1.0	08/11/09 04:30		<input type="checkbox"/>
230	RINSE				1.0	08/11/09 04:32		<input type="checkbox"/>
231	RINSE				1.0	08/11/09 04:35		<input type="checkbox"/>
232	RINSE				1.0	08/11/09 04:38	<i>TEL 8/11/09</i>	<input type="checkbox"/>

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
233	RINSE				1.0 08/11/09 04:41		<input type="checkbox"/>
234	RINSE			1.0	08/11/09 04:43		<input type="checkbox"/>
235	RINSE			1.0	08/11/09 04:46		<input type="checkbox"/>
236	Cal Blank			1.0	08/11/09 04:49	<i>8/11/09</i>	<input type="checkbox"/>
237	Cal Blank			1.0	08/11/09 04:52		<input type="checkbox"/>
238	100 ppb			1.0	08/11/09 04:54		<input type="checkbox"/>
239	CCV			1.0	08/11/09 04:57		<input type="checkbox"/>
240	CCB			1.0	08/11/09 05:00		<input type="checkbox"/>
241	RLCV			1.0	08/11/09 05:03		<input type="checkbox"/>
242	LHT3RBF	D9H080000	9220042	MD	1.0	08/11/09 05:05	<input type="checkbox"/>
243	LHT3RCF	D9H080000	9220042	MD	1.0	08/11/09 05:08	<input type="checkbox"/>
244	LHJ0JF	D9H050209-1	9220042	MD	1.0	08/11/09 05:11	<input type="checkbox"/>
245	LHJ02F	D9H050209-2	9220042	MD	1.0	08/11/09 05:14	<input type="checkbox"/>
246	LHJ02P5F	D9H050209	9220042		5.0	08/11/09 05:17	<input type="checkbox"/>
247	LHJ02ZF	D9H050209-2	9220042		1.0	08/11/09 05:19	<input type="checkbox"/>
248	LHJ02SF	D9H050209-2	9220042	MD	1.0	08/11/09 05:22	<input type="checkbox"/>
249	LHJ02DF	D9H050209-2	9220042	MD	1.0	08/11/09 05:25	<input type="checkbox"/>
250	LHKEWF	D9H050209-4	9220042	MD	1.0	08/11/09 05:28	<input type="checkbox"/>
251	CCV			1.0	08/11/09 05:30		<input type="checkbox"/>
252	CCB			1.0	08/11/09 05:33		<input type="checkbox"/>
253	RLCV			1.0	08/11/09 05:36		<input type="checkbox"/>
254	LHT4NB	D9H080000	9220047	MS	1.0	08/11/09 05:39	<input type="checkbox"/>
255	LHT4NC	D9H080000	9220047	MS	1.0	08/11/09 05:42	<input type="checkbox"/>
256	LHJ08	D9H050209-3	9220047	MS	1.0	08/11/09 05:44	<input type="checkbox"/>
257	LHKE1	D9H050209-5	9220047	MS	1.0	08/11/09 05:47	<input type="checkbox"/>
258	LHKE1P5	D9H050209	9220047		5.0	08/11/09 05:50	<input type="checkbox"/>
259	LHKE1Z	D9H050209-5	9220047		1.0	08/11/09 05:53	<input type="checkbox"/>
260	LHKE1S	D9H050209-5	9220047	MS	1.0	08/11/09 05:55	<input type="checkbox"/>
261	LHKE1D	D9H050209-5	9220047	MS	1.0	08/11/09 05:58	<input type="checkbox"/>
262	CCV			1.0	08/11/09 06:01		<input type="checkbox"/>
263	CCB			1.0	08/11/09 06:04		<input type="checkbox"/>
264	RLCV			1.0	08/11/09 06:06		<input type="checkbox"/>
265	LHT9RB	D9H080000	9220064	04	1.0	08/11/09 06:09	<input type="checkbox"/>
266	LHT9RC	D9H080000	9220064	04	1.0	08/11/09 06:12	<input type="checkbox"/>
267	LHJGD	D9H050137-5	9220064	04	1.0	08/11/09 06:15	<input type="checkbox"/>
268	LHJGDP5	D9H050137	9220064		5.0	08/11/09 06:18	<input type="checkbox"/>
269	LHJGDZ	D9H050137-5	9220064		1.0	08/11/09 06:20	<input type="checkbox"/>
270	LHJGDS	D9H050137-5	9220064	04	1.0	08/11/09 06:23	<input type="checkbox"/>
271	LHJGDD	D9H050137-5	9220064	04	1.0	08/11/09 06:26	<input type="checkbox"/>
272	LHR5A	D9H070252-1	9220064	04	1.0	08/11/09 06:29	<input type="checkbox"/>
273	CCV			1.0	08/11/09 06:31		<input type="checkbox"/>
274	CCB			1.0	08/11/09 06:34		<input type="checkbox"/>
275	RLCV			1.0	08/11/09 06:37		<input type="checkbox"/>
276	LHT0GB	D9H080000	9220033	MS	1.0 08/11/09 06:40		<input type="checkbox"/>
277	LHT0GC	D9H080000	9220033	MS	1.0	08/11/09 06:43	<input type="checkbox"/>
278	LHT0GB	D9H060214-1	9220033	MS	1.0 08/11/09 06:45	<i>8/11/09 did not use</i>	<input type="checkbox"/>

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 08/11/09 11:25:08

File ID: AG081009A

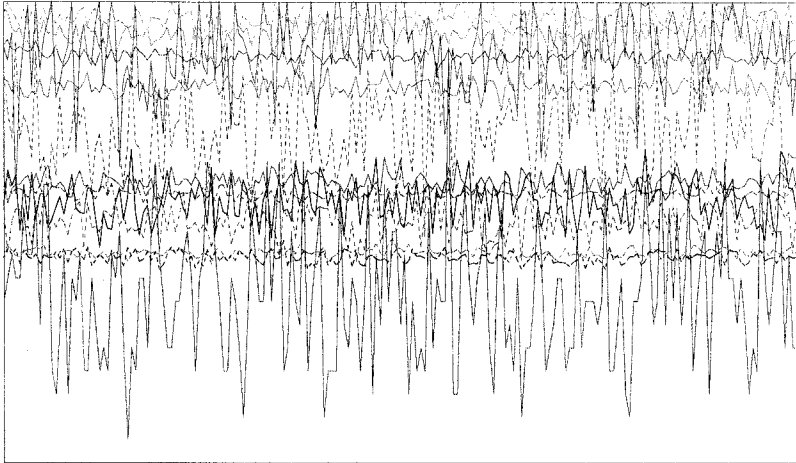
Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
279	LHMLH	D9H060214-2	9220033	MS	1.0	08/11/09 06:48	<input type="checkbox"/>
280	LHMN6	D9H060214-3	9220033	MS	1.0	08/11/09 06:51	<input type="checkbox"/>
281	LHTDQ	D9H070289-1	9220033	MS	1.0	08/11/09 06:54	<input type="checkbox"/>
282	LHTDW	D9H070289-2	9220033	MS	1.0	08/11/09 06:57	<input type="checkbox"/>
283	CCV				1.0	08/11/09 06:59	<input type="checkbox"/>
284	CCB				1.0	08/11/09 07:02	<input type="checkbox"/>
285	RLCV				1.0	08/11/09 07:05	<input type="checkbox"/>
286	LHTD0	D9H070289-3	9220033	MS	1.0	08/11/09 07:08	<input type="checkbox"/>
287	LHTD0P5	D9H070289	9220033		5.0	08/11/09 07:10	<input type="checkbox"/>
288	LHTD0Z	D9H070289-3	9220033		1.0	08/11/09 07:13	<input type="checkbox"/>
289	LHTD0S	D9H070289-3	9220033	MS	1.0	08/11/09 07:16	<input type="checkbox"/>
290	LHTD0D	D9H070289-3	9220033	MS	1.0	08/11/09 07:19	<input type="checkbox"/>
291	LHTD1	D9H070289-4	9220033	MS	1.0	08/11/09 07:22	<input type="checkbox"/>
292	CCV				1.0	08/11/09 07:24	<input type="checkbox"/>
293	CCB				1.0	08/11/09 07:27	<input type="checkbox"/>
294	RLCV				1.0	08/11/09 07:30	<input type="checkbox"/>

Ref 8/11/09 Did not use

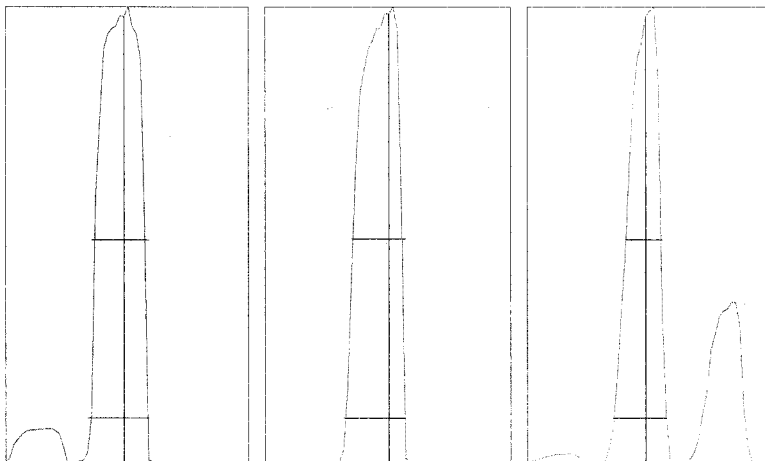
Tune Report

Tune File : NORM.U
 Comment :



Integration Time: 0.1000 sec
 Sampling Period: 1.5300 sec
 n: 200
 Oxide: 156/140 1.280%
 Doubly Charged: 70/140 1.306%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1277.0	1212.6	3.29	2.10
7	20,000	16661.0	16295.0	2.25	1.60
59	20,000	18792.0	18605.1	2.34	0.90
63	100	91.0	90.0	11.00	1.10
70	500	302.0	283.2	7.74	1.50
75	20	2.0	7.2	40.14	1.20
78	500	273.0	260.8	6.33	1.50
89	50,000	22278.0	22756.3	1.97	2.30
115	20,000	19390.0	19268.7	1.88	2.60
118	100	77.0	72.2	12.54	2.60
137	5,000	2253.0	2223.9	2.70	2.80
205	20,000	11452.0	11648.2	1.84	3.60
238	20,000	17180.0	17622.9	1.55	4.60
156/140	2	1.240%	1.301%	7.97	
70/140	2	1.528%	1.441%	7.98	



m/z:	7	89	205
Height:	16,281	23,001	11,900
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.65	0.45
W-10%:	0.7500	0.7500	0.6500

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
Smpl Depth : 7.5 mm
Torch-H : -0.8 mm
Torch-V : -0.3 mm
Carrier Gas : 0.83 L/min
Makeup Gas : 0.23 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 : -34 V
Omega Lens-ce : 1 V
Cell Entrance : -30 V
QP Focus : 7 V
Cell Exit : -30 V

===Octopole Parameters===

OctP RF : 180 V
OctP Bias : -18 V

===Q-Pole Parameters===

AMU Gain : 133
AMU Offset : 123
Axis Gain : 1.0006
Axis Offset : -0.03
QP Bias : -1 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: Aug 10 2009 05:25 pm

Mass[amu]	Element	P/A Factor
6	Li	0.059224
7	(Li)	Sensitivity too low
9	Be	0.065939
45	Sc	0.077958
51	V	0.079670
52	Cr	0.081495
53	(Cr)	Sensitivity too low
55	Mn	0.082881
59	Co	0.084650
60	Ni	0.085888
63	Cu	0.087500
66	Zn	0.087183
72	Ge	0.086826
75	As	0.086085
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
95	Mo	0.087962
98	(Mo)	0.087439
99	(Mo)	0.088211
106	(Cd)	0.090424
107	Ag	Sensitivity too low
108	(Cd)	0.090963
111	Cd	0.090902
114	Cd	0.090659
115	In	0.089830
118	Sn	0.090118
121	Sb	0.090217
137	Ba	Sensitivity too low
165	Ho	Sensitivity too low
205	Tl	0.095902
206	(Pb)	0.095184
207	(Pb)	0.095217
208	Pb	0.094502
232	Th	0.093768
238	U	0.093910

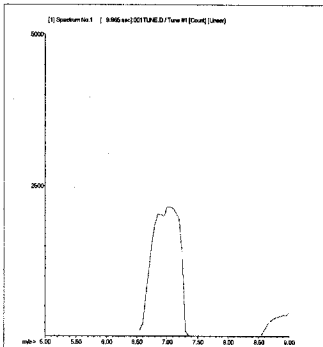
===Detector Parameters===

Discriminator: 8.0 mV
Analog HV: 1720 V
Pulse HV: 1390 V

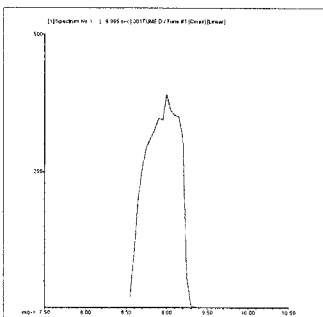
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\001TUNE.D
 Date Acquired: Aug 10 2009 06:01 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

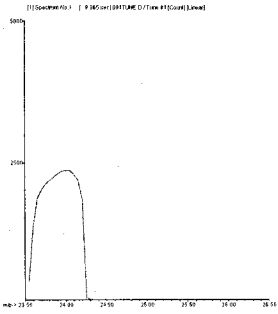
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	23394	23373	23283	23262	23454	23596	0.58	5.00	
9 Be	4040	4033	4013	4046	4048	4060	0.44	5.00	
24 Mg	27733	27886	27740	27593	28101	27346	1.03	5.00	
59 Co	126100	128137	127946	123341	126160	124916	1.61	5.00	
115 In	1508105	1512323	1511531	1497483	1509610	1509575	0.40	5.00	
208 Pb	69191	70426	69382	67952	68926	69270	1.29	5.00	
238 U	126765	128734	126188	125493	127220	126189	1.00	5.00	



7 Li
Mass Calib.
 Actual: 7.05
 Required: 6.90 - 7.10
 Flag:
Peak Width
 Actual: 0.60
 Required: 0.90
 Flag:



9 Be
Mass Calib.
 Actual: 9.05
 Required: 8.90 - 9.10
 Flag:
Peak Width
 Actual: 0.65
 Required: 0.90
 Flag:



24 Mg

Mass Calib.

Actual: 24.00

Required: 23.90 - 24.10

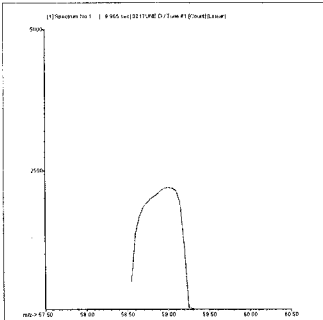
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.00

Required: 58.90 - 59.10

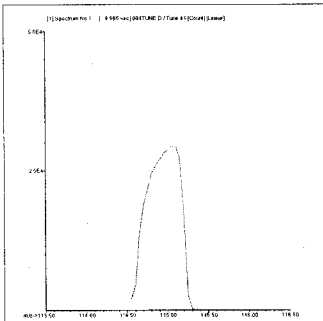
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

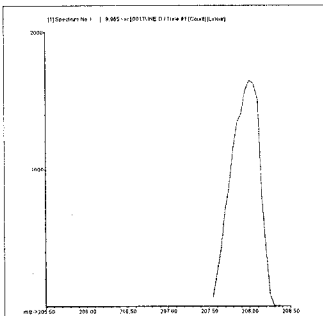
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



208 Pb

Mass Calib.

Actual: 208.00

Required: 207.90 - 208.10

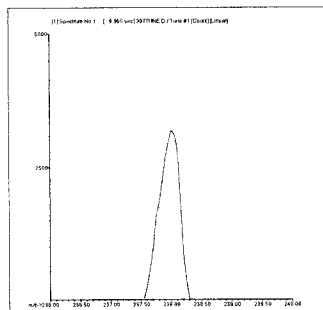
Flag:

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: 0.60

Required: 0.90

Flag:

Tune Result:

Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\002CALB.D\002CALB.D#
 Date Acquired: Aug 10 2009 06:04 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: Aug 10 2009 06:04 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	354	31.69
52	Cr	72	1	4124	6.07
55	Mn	72	1	670	21.99
59	Co	72	1	70	14.29
60	Ni	72	1	117	21.57
63	Cu	72	1	557	9.22
66	Zn	72	1	2610	2.26
75	As	72	1	71	6.54
78	Se	72	1	770	11.10
95	Mo	72	1	70	37.80
107	Ag	115	1	17	34.64
111	Cd	115	1	30	71.04
118	Sn	115	1	417	12.08
121	Sb	115	1	17	34.64
137	Ba	115	1	41	16.88
205	Tl	165	1	118	27.20
208	Pb	165	1	282	3.80
232	Th	165	1	200	5.00
238	U	165	1	113	5.88

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	392728	0.47
45	Sc	1	2428129	0.41
72	Ge	1	1115573	2.35
115	In	1	2711701	0.96
165	Ho	1	3799176	0.71

Tune File# 1 c:\icpchem\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\AG081009A.B\003CALB.D\003CALB.D#
Date Acquired: Aug 10 2009 06:06 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: Aug 10 2009 06:04 pm
Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	27	1017.20
52	Cr	72	1	3697	2.89
55	Mn	72	1	787	17.81
59	Co	72	1	37	56.77
60	Ni	72	1	467	11.80
63	Cu	72	1	650	9.23
66	Zn	72	1	885	2.73
75	As	72	1	65	15.87
78	Se	72	1	777	16.10
95	Mo	72	1	40	43.30
107	Ag	115	1	3	173.21
111	Cd	115	1	23	56.18
118	Sn	115	1	1010	5.24
121	Sb	115	1	28	48.50
137	Ba	115	1	14	70.50
205	Tl	165	1	81	10.34
208	Pb	165	1	252	5.34
232	Th	165	1	177	8.65
238	U	165	1	26	7.53

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	394687	0.94
45	Sc	1	2446753	1.77
72	Ge	1	1125847	1.05
115	In	1	2719186	2.09
165	Ho	1	3817349	0.25

Tune File# 1 c:\icpchem\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\AG081009A.B\004ICAL.D\004ICAL.D#
 Date Acquired: Aug 10 2009 06:09 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: Aug 10 2009 06:07 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	65842	1.17
51	V	72	1535619	1.04
52	Cr	72	1532297	0.65
55	Mn	72	1633772	1.58
59	Co	72	1921710	0.85
60	Ni	72	447209	0.74
63	Cu	72	1073527	1.19
66	Zn	72	208832	1.11
75	As	72	179835	0.69
78	Se	72	30180	2.46
95	Mo	72	467956	0.64
107	Ag	115	1296538	0.46
111	Cd	115	242181	1.30
118	Sn	115	666189	0.27
121	Sb	115	760929	0.70
137	Ba	115	315160	1.02
205	Tl	165	1960793	0.44
208	Pb	165	2698115	0.18
232	Th	165	2387349	2.74
238	U	165	2722294	0.55

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	387659	0.67	394687	98.2	30 - 120
45	Sc	1	2412509	0.93	2446753	98.6	30 - 120
72	Ge	1	1107652	0.44	1125847	98.4	30 - 120
115	In	1	2709456	1.18	2719186	99.6	30 - 120
165	Ho	1	3829303	0.52	3817349	100.3	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\005_ICV.D\005_ICV.D#
 Date Acquired: Aug 10 2009 06:12 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: Aug 10 2009 06:10 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	40.48 ppb	1.00	40	101.2	90 - 110	
51	V	72	39.31 ppb	0.98	40	98.3	90 - 110	
52	Cr	72	39.86 ppb	0.82	40	99.7	90 - 110	
55	Mn	72	39.36 ppb	0.49	40	98.4	90 - 110	
59	Co	72	39.81 ppb	1.21	40	99.5	90 - 110	
60	Ni	72	40.33 ppb	1.20	40	100.8	90 - 110	
63	Cu	72	39.84 ppb	0.87	40	99.6	90 - 110	
66	Zn	72	40.26 ppb	0.39	40	100.7	90 - 110	
75	As	72	39.99 ppb	0.13	40	100.0	90 - 110	
78	Se	72	41.87 ppb	3.08	40	104.7	90 - 110	
95	Mo	72	39.49 ppb	0.68	40	98.7	90 - 110	
107	Ag	115	39.86 ppb	0.43	40	99.7	90 - 110	
111	Cd	115	40.83 ppb	1.84	40	102.1	90 - 110	
118	Sn	115	39.26 ppb	1.02	40	98.2	90 - 110	
121	Sb	115	39.12 ppb	1.36	40	97.8	90 - 110	
137	Ba	115	40.11 ppb	0.69	40	100.3	90 - 110	
205	Tl	165	40.87 ppb	1.42	40	102.2	90 - 110	
208	Pb	165	40.72 ppb	1.25	40	101.8	90 - 110	
232	Th	165	44.35 ppb	1.41	40	110.9	90 - 110	Fail
238	U	165	40.53 ppb	0.56	40	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	386356	0.92	394687	97.9	30 - 120
45	Sc	1	2392521	0.40	2446753	97.8	30 - 120
72	Ge	1	1110457	0.44	1125847	98.6	30 - 120
115	In	1	2702975	0.93	2719186	99.4	30 - 120
165	Ho	1	3868261	0.70	3817349	101.3	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\AG081009A.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\AG081009A.B\006WASH.D\006WASH.D#
 Date Acquired: Aug 10 2009 06:15 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: Aug 10 2009 06:10 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	0.962 ppb	11.83	1.30	
51 V	72	1	5.098 ppb	0.72	6.50	
52 Cr	72	1	2.153 ppb	0.77	2.60	
55 Mn	72	1	1.013 ppb	1.93	1.30	
59 Co	72	1	1.046 ppb	1.77	1.30	
60 Ni	72	1	2.036 ppb	1.65	2.60	
63 Cu	72	1	2.079 ppb	2.63	2.60	
66 Zn	72	1	10.260 ppb	0.96	13.00	
75 As	72	1	5.112 ppb	0.38	6.50	
78 Se	72	1	4.868 ppb	3.66	6.50	
95 Mo	72	1	2.199 ppb	4.71	2.60	
107 Ag	115	1	5.190 ppb	1.63	6.50	
111 Cd	115	1	1.068 ppb	0.77	1.30	
118 Sn	115	1	10.230 ppb	1.10	13.00	
121 Sb	115	1	2.192 ppb	0.80	2.60	
137 Ba	115	1	1.075 ppb	3.75	1.30	
205 Tl	165	1	1.158 ppb	2.36	1.30	
208 Pb	165	1	1.072 ppb	0.99	1.30	
232 Th	165	1	3.344 ppb	3.13	2.60	
238 U	165	1	1.105 ppb	2.11	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389518	0.53	394687	98.7	30 - 120	
45 Sc	1	2376989	0.76	2446753	97.1	30 - 120	
72 Ge	1	1099932	0.58	1125847	97.7	30 - 120	
115 In	1	2703766	0.89	2719186	99.4	30 - 120	
165 Ho	1	3816929	0.48	3817349	100.0	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\AG081009A.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\AG081009A.B\008RLST.D\008RLST.D#
 Date Acquired: Aug 10 2009 06:20 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: Aug 10 2009 06:10 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	1.00 ppb	5.38	1	100.4	50 - 150
51	V	72	1	0.95 ppb	4.78	1	95.5	50 - 150
52	Cr	72	1	1.03 ppb	4.50	1	103.1	50 - 150
55	Mn	72	1	0.99 ppb	2.06	1	99.4	50 - 150
59	Co	72	1	1.02 ppb	1.61	1	102.4	50 - 150
60	Ni	72	1	0.92 ppb	5.43	1	92.3	50 - 150
63	Cu	72	1	1.06 ppb	1.60	1	106.0	50 - 150
66	Zn	72	1	10.99 ppb	2.05	10	109.9	50 - 150
75	As	72	1	1.02 ppb	3.26	1	102.0	50 - 150
78	Se	72	1	1.30 ppb	8.14	1	129.8	50 - 150
95	Mo	72	1	1.03 ppb	3.66	1	102.8	50 - 150
107	Ag	115	1	1.04 ppb	2.89	1	103.6	50 - 150
111	Cd	115	1	1.00 ppb	3.57	1	99.8	50 - 150
118	Sn	115	1	10.84 ppb	1.34	10	108.4	50 - 150
121	Sb	115	1	1.08 ppb	1.30	1	107.6	50 - 150
137	Ba	115	1	1.08 ppb	3.66	1	107.6	50 - 150
205	Tl	165	1	1.08 ppb	3.38	1	107.8	50 - 150
208	Pb	165	1	1.04 ppb	0.90	1	104.2	50 - 150
232	Th	165	1	1.14 ppb	2.04	1	113.7	50 - 150
238	U	165	1	1.07 ppb	1.31	1	107.4	50 - 150

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	381160	1.69	394687	96.6	30 - 120
45	Sc	1	2348126	1.16	2446753	96.0	30 - 120
72	Ge	1	1102409	1.34	1125847	97.9	30 - 120
115	In	1	2670308	0.31	2719186	98.2	30 - 120
165	Ho	1	3800403	0.92	3817349	99.6	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\AG081009A.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\AG081009A.B\009AFCE.D\009AFCE.D#
 Date Acquired: Aug 10 2009 06:23 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: Aug 10 2009 06:10 pm
 Sample Type: AFCEEERL
 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	0.21 ppb	37.49	0	104.1	80 - 120
51	V	72	1	0.18 ppb	11.11	0	93.6	80 - 120
52	Cr	72	1	0.20 ppb	4.41	0	95.1	80 - 120
55	Mn	72	1	0.18 ppb	9.10	0	92.5	80 - 120
59	Co	72	1	0.20 ppb	7.26	0	99.2	80 - 120
60	Ni	72	1	0.12 ppb	37.55	0	65.1	80 - 120
63	Cu	72	1	0.21 ppb	5.84	0	97.8	80 - 120
66	Zn	72	1	2.00 ppb	2.60	2	90.9	80 - 120
75	As	72	1	0.21 ppb	3.29	0	102.2	80 - 120
78	Se	72	1	0.57 ppb	37.21	0	218.1	80 - 120
95	Mo	72	1	0.23 ppb	17.06	0	112.2	80 - 120
107	Ag	115	1	0.19 ppb	8.42	0	91.3	80 - 120
111	Cd	115	1	0.18 ppb	11.73	0	92.5	80 - 120
118	Sn	115	1	2.13 ppb	0.61	2	98.2	80 - 120
121	Sb	115	1	0.22 ppb	3.38	0	102.6	80 - 120
137	Ba	115	1	0.20 ppb	2.70	0	94.9	80 - 120
205	Tl	165	1	0.23 ppb	1.38	0	107.1	80 - 120
208	Pb	165	1	0.21 ppb	2.17	0	102.0	80 - 120
232	Th	165	1	0.27 ppb	6.02	0	120.0	80 - 120
238	U	165	1	0.21 ppb	3.48	0	97.7	80 - 120

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	384831	0.38	394687	97.5	30 - 120
45	Sc	1	2381074	1.35	2446753	97.3	30 - 120
72	Ge	1	1108278	1.30	1125847	98.4	30 - 120
115	In	1	2695785	0.35	2719186	99.1	30 - 120
165	Ho	1	3782218	0.41	3817349	99.1	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\
 Tune File# 4 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\010SMPL.D\010SMPL.D#
 Date Acquired: Aug 10 2009 06:26 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: Aug 10 2009 06:10 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	153.00	3600	
52 Cr	72	1	0.00	0.00	ppb	726.14	3600	
55 Mn	72	1	-0.01	-0.01	ppb	114.24	3600	
59 Co	72	1	0.00	0.00	ppb	103.96	3600	
60 Ni	72	1	-0.03	-0.03	ppb	15.09	3600	
63 Cu	72	1	0.00	0.00	ppb	118.88	3600	
66 Zn	72	1	-0.11	-0.11	ppb	3.22	3600	
75 As	72	1	0.01	0.01	ppb	74.91	3600	
78 Se	72	1	2.14	2.14	ppb	18.71	3600	
95 Mo	72	1	0.01	0.01	ppb	88.11	3600	
107 Ag	115	1	0.00	0.00	ppb	18.18	3600	
111 Cd	115	1	0.00	0.00	ppb	245.41	3600	
118 Sn	115	1	-0.05	-0.05	ppb	21.00	3600	
121 Sb	115	1	0.02	0.02	ppb	14.62	3600	
137 Ba	115	1	0.00	0.00	ppb	77.19	3600	
205 Tl	165	1	0.02	0.02	ppb	18.17	3600	
208 Pb	165	1	0.00	0.00	ppb	132.48	3600	
232 Th	165	1	0.05	0.05	ppb	10.43	1000	
238 U	165	1	0.00	0.00	ppb	1446.10	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	384420	0.66	394687	97.4	30 - 120	
45 Sc	1	2363773	0.07	2446753	96.6	30 - 120	
72 Ge	1	1095031	0.87	1125847	97.3	30 - 120	
115 In	1	2709116	0.72	2719186	99.6	30 - 120	
165 Ho	1	3806731	0.23	3817349	99.7	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\AG081009A.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\AG081009A.B\011ICSA.D\011ICSA.D#
 Date Acquired: Aug 10 2009 06:28 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 06:10 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	ppb	Flag
9	Be	6	1	0.01 ppb	173.20	1.00	
51	V	72	1	-0.28 ppb	16.13	1.00	
52	Cr	72	1	0.68 ppb	7.15	1.00	
55	Mn	72	1	3.37 ppb	3.01	1.00	
59	Co	72	1	1.52 ppb	1.80	1.00	
60	Ni	72	1	1.33 ppb	7.03	1.00	
63	Cu	72	1	1.39 ppb	1.64	1.00	
66	Zn	72	1	2.60 ppb	3.64	10.00	
75	As	72	1	0.41 ppb	4.62	1.00	
78	Se	72	1	0.04 ppb	875.93	1.00	
95	Mo	72	1	2011.00 ppb	2.30	2000.00	
107	Ag	115	1	0.04 ppb	6.23	1.00	
111	Cd	115	1	0.24 ppb	38.98	1.00	
118	Sn	115	1	0.01 ppb	102.51	10.00	
121	Sb	115	1	0.27 ppb	5.72	1.00	
137	Ba	115	1	0.07 ppb	17.98	1.00	
205	Tl	165	1	0.04 ppb	40.80	1.00	
208	Pb	165	1	0.14 ppb	3.56	1.00	
232	Th	165	1	0.10 ppb	13.38	1.00	
238	U	165	1	0.00 ppb	19.44	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	339249	1.40	394687	86.0	30 - 120
45	Sc	1	2070580	0.61	2446753	84.6	30 - 120
72	Ge	1	927464	2.03	1125847	82.4	30 - 120
115	In	1	2246349	1.22	2719186	82.6	30 - 120
165	Ho	1	3443563	1.20	3817349	90.2	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\AG081009A.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\013SMPL.D\013SMPL.D#
 Date Acquired: Aug 10 2009 06:34 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: Aug 10 2009 06:10 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	173.21	3600	
51 V	72	1	0.00	0.00	ppb	1356.30	3600	
52 Cr	72	1	0.02	0.02	ppb	126.42	3600	
55 Mn	72	1	0.00	0.00	ppb	97.83	3600	
59 Co	72	1	0.01	0.01	ppb	17.25	3600	
60 Ni	72	1	-0.06	-0.06	ppb	24.77	3600	
63 Cu	72	1	0.00	0.00	ppb	68.55	3600	
66 Zn	72	1	0.82	0.82	ppb	5.26	3600	
75 As	72	1	0.01	0.01	ppb	65.52	3600	
78 Se	72	1	0.35	0.35	ppb	98.25	3600	
95 Mo	72	1	1.75	1.75	ppb	4.87	3600	
107 Ag	115	1	0.02	0.02	ppb	59.60	3600	
111 Cd	115	1	0.00	0.00	ppb	178.39	3600	
118 Sn	115	1	-0.02	-0.02	ppb	44.11	3600	
121 Sb	115	1	0.04	0.04	ppb	18.60	3600	
137 Ba	115	1	0.01	0.01	ppb	49.69	3600	
205 Tl	165	1	0.01	0.01	ppb	15.49	3600	
208 Pb	165	1	0.01	0.01	ppb	21.27	3600	
232 Th	165	1	0.96	0.96	ppb	17.84	1000	
238 U	165	1	0.02	0.02	ppb	8.06	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	417953	1.05	394687	105.9	30 - 120	
45 Sc	1	2370217	1.00	2446753	96.9	30 - 120	
72 Ge	1	1125021	0.71	1125847	99.9	30 - 120	
115 In	1	2769043	1.00	2719186	101.8	30 - 120	
165 Ho	1	3993502	0.73	3817349	104.6	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\AG081009A.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\AG081009A.B\014_LR.D\014_LR.D#
 Date Acquired: Aug 10 2009 06:36 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: Aug 10 2009 06:10 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	1004.00 ppb	0.66	1000	100.4	90 - 110	
51 V	72	1	923.60 ppb	1.56	1000	92.4	90 - 110	
52 Cr	72	1	957.30 ppb	0.88	1000	95.7	90 - 110	
55 Mn	72	1	944.20 ppb	0.62	1000	94.4	90 - 110	
59 Co	72	1	962.70 ppb	1.17	1000	96.3	90 - 110	
60 Ni	72	1	978.20 ppb	1.60	1000	97.8	90 - 110	
63 Cu	72	1	945.60 ppb	1.33	1000	94.6	90 - 110	
66 Zn	72	1	1015.00 ppb	2.51	1000	101.5	90 - 110	
75 As	72	1	1015.00 ppb	0.37	1000	101.5	90 - 110	
78 Se	72	1	1044.00 ppb	1.38	1000	104.4	90 - 110	
95 Mo	72	1	984.90 ppb	1.46	1000	98.5	90 - 110	
107 Ag	115	1	952.90 ppb	1.27	1000	95.3	90 - 110	
111 Cd	115	1	989.60 ppb	0.87	1000	99.0	90 - 110	
118 Sn	115	1	964.00 ppb	0.79	1000	96.4	90 - 110	
121 Sb	115	1	971.00 ppb	0.56	1000	97.1	90 - 110	
137 Ba	115	1	991.30 ppb	1.54	1000	99.1	90 - 110	
205 Tl	165	1	963.90 ppb	1.23	1000	96.4	90 - 110	
208 Pb	165	1	945.40 ppb	1.22	1000	94.5	90 - 110	
232 Th	165	1	1050.00 ppb	0.83	1000	105.0	90 - 110	
238 U	165	1	967.10 ppb	0.90	1000	96.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	396227	0.55	394687	100.4	30 - 120	
45 Sc	1	2360026	1.45	2446753	96.5	30 - 120	
72 Ge	1	1098700	1.12	1125847	97.6	30 - 120	
115 In	1	2734512	0.49	2719186	100.6	30 - 120	
165 Ho	1	3971158	0.63	3817349	104.0	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.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\AG081009A.B\015SMPL.D\015SMPL.D#
 Date Acquired: Aug 10 2009 06:39 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: Aug 10 2009 06:10 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	0.07	0.07	ppb	11.29	3600	
51 V	72	1	0.07	0.07	ppb	49.92	3600	
52 Cr	72	1	0.08	0.08	ppb	3.05	3600	
55 Mn	72	1	0.07	0.07	ppb	11.75	3600	
59 Co	72	1	0.08	0.08	ppb	22.22	3600	
60 Ni	72	1	-0.01	-0.01	ppb	189.04	3600	
63 Cu	72	1	0.07	0.07	ppb	14.57	3600	
66 Zn	72	1	0.90	0.90	ppb	4.20	3600	
75 As	72	1	0.12	0.12	ppb	13.74	3600	
78 Se	72	1	0.56	0.56	ppb	13.28	3600	
95 Mo	72	1	0.99	0.99	ppb	7.52	3600	
107 Ag	115	1	0.11	0.11	ppb	9.78	3600	
111 Cd	115	1	0.09	0.09	ppb	18.21	3600	
118 Sn	115	1	1.04	1.04	ppb	13.89	3600	
121 Sb	115	1	0.46	0.46	ppb	3.67	3600	
137 Ba	115	1	0.07	0.07	ppb	29.33	3600	
205 Tl	165	1	0.24	0.24	ppb	12.29	3600	
208 Pb	165	1	0.09	0.09	ppb	17.25	3600	
232 Th	165	1	6.26	6.26	ppb	20.02	1000	
238 U	165	1	0.15	0.15	ppb	1.91	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406521	1.45	394687	103.0	30 - 120	
45 Sc	1	2437916	0.81	2446753	99.6	30 - 120	
72 Ge	1	1134540	0.61	1125847	100.8	30 - 120	
115 In	1	2782594	0.81	2719186	102.3	30 - 120	
165 Ho	1	3984640	0.83	3817349	104.4	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\AG081009A.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\AG081009A.B\016_CCV.D\016_CCV.D#
 Date Acquired: Aug 10 2009 06:42 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: Aug 10 2009 06:10 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	49.23 ppb	1.97	50	98.5	90 - 110	
51	V	72	48.18 ppb	3.03	50	96.4	90 - 110	
52	Cr	72	49.10 ppb	2.47	50	98.2	90 - 110	
55	Mn	72	48.34 ppb	2.30	50	96.7	90 - 110	
59	Co	72	50.75 ppb	1.62	50	101.5	90 - 110	
60	Ni	72	49.33 ppb	1.83	50	98.7	90 - 110	
63	Cu	72	48.69 ppb	2.92	50	97.4	90 - 110	
66	Zn	72	52.56 ppb	1.77	50	105.1	90 - 110	
75	As	72	49.20 ppb	2.24	50	98.4	90 - 110	
78	Se	72	48.36 ppb	4.30	50	96.7	90 - 110	
95	Mo	72	50.11 ppb	1.65	50	100.2	90 - 110	
107	Ag	115	49.41 ppb	0.58	50	98.8	90 - 110	
111	Cd	115	49.05 ppb	0.87	50	98.1	90 - 110	
118	Sn	115	50.05 ppb	1.70	50	100.1	90 - 110	
121	Sb	115	49.82 ppb	1.05	50	99.6	90 - 110	
137	Ba	115	49.79 ppb	0.54	50	99.6	90 - 110	
205	Tl	165	50.63 ppb	1.41	50	101.3	90 - 110	
208	Pb	165	50.26 ppb	0.23	50	100.5	90 - 110	
232	Th	165	52.23 ppb	3.29	50	104.5	90 - 110	
238	U	165	50.28 ppb	1.54	50	100.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398790	1.16	394687	101.0	30 - 120
45	Sc	1	2428065	0.52	2446753	99.2	30 - 120
72	Ge	1	1132154	1.68	1125847	100.6	30 - 120
115	In	1	2783451	0.38	2719186	102.4	30 - 120
165	Ho	1	3944703	1.21	3817349	103.3	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\AG081009A.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\AG081009A.B\017_CCB.D\017_CCB.D#
 Date Acquired: Aug 10 2009 06:45 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: Aug 10 2009 06:10 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

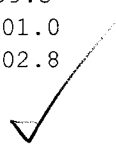
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.029 ppb	50.02	1.00	
51 V	72	1	0.019 ppb	104.60	1.00	
52 Cr	72	1	0.033 ppb	99.12	1.00	
55 Mn	72	1	0.000 ppb	2663.10	1.00	
59 Co	72	1	0.016 ppb	6.13	1.00	
60 Ni	72	1	-0.070 ppb	15.94	1.00	
63 Cu	72	1	0.009 ppb	119.60	1.00	
66 Zn	72	1	-0.124 ppb	10.27	1.00	
75 As	72	1	0.017 ppb	49.87	1.00	
78 Se	72	1	0.100 ppb	304.64	1.00	
95 Mo	72	1	0.179 ppb	6.53	1.00	
107 Ag	115	1	0.018 ppb	20.56	1.00	
111 Cd	115	1	0.001 ppb	1567.90	1.00	
118 Sn	115	1	0.177 ppb	26.58	1.00	
121 Sb	115	1	0.101 ppb	8.06	1.00	
137 Ba	115	1	0.018 ppb	26.37	1.00	
205 Tl	165	1	0.073 ppb	5.05	1.00	
208 Pb	165	1	0.011 ppb	12.50	1.00	
232 Th	165	1	1.499 ppb	14.31	1.00	Fail
238 U	165	1	0.023 ppb	2.40	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406279	0.13	394687	102.9	30 - 120	
45 Sc	1	2409755	0.92	2446753	98.5	30 - 120	
72 Ge	1	1118502	1.15	1125847	99.3	30 - 120	
115 In	1	2746559	0.29	2719186	101.0	30 - 120	
165 Ho	1	3925108	0.26	3817349	102.8	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\AG081009A.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\AG081009A.B\018WASH.D\018WASH.D#
 Date Acquired: Aug 10 2009 06:47 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: Aug 10 2009 06:10 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	1.105 ppb	6.50	1.30	
51 V	72		1	5.087 ppb	3.62	6.50	
52 Cr	72		1	2.163 ppb	2.98	2.60	
55 Mn	72		1	1.000 ppb	2.91	1.30	
59 Co	72		1	1.065 ppb	2.44	1.30	
60 Ni	72		1	2.023 ppb	1.63	2.60	
63 Cu	72		1	2.091 ppb	1.36	2.60	
66 Zn	72		1	10.460 ppb	2.37	13.00	
75 As	72		1	5.273 ppb	1.62	6.50	
78 Se	72		1	5.734 ppb	6.76	6.50	
95 Mo	72		1	2.210 ppb	2.32	2.60	
107 Ag	115		1	5.205 ppb	1.43	6.50	
111 Cd	115		1	1.050 ppb	4.55	1.30	
118 Sn	115		1	10.450 ppb	1.08	13.00	
121 Sb	115		1	2.010 ppb	2.30	2.60	
137 Ba	115		1	1.109 ppb	3.21	1.30	
205 Tl	165		1	1.150 ppb	1.01	1.30	
208 Pb	165		1	1.076 ppb	0.61	1.30	
232 Th	165		1	2.636 ppb	1.22	2.60	
238 U	165		1	1.112 ppb	1.72	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	404611	0.96	394687	102.5	30 - 120	
45 Sc	1	2418551	0.39	2446753	98.8	30 - 120	
72 Ge	1	1116189	1.64	1125847	99.1	30 - 120	
115 In	1	2767098	0.92	2719186	101.8	30 - 120	
165 Ho	1	3902436	1.37	3817349	102.2	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\AG081009A.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.D#
 Date Acquired: Aug 10 2009 09:53 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: Aug 10 2009 09:51 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	359	49.21
52	Cr	72	1	3327	12.19
55	Mn	72	1	673	7.00
59	Co	72	1	63	23.12
60	Ni	72	1	473	1.82
63	Cu	72	1	697	6.65
66	Zn	72	1	5275	0.36
75	As	72	1	61	14.81
78	Se	72	1	797	7.38
95	Mo	72	1	473	9.18
107	Ag	115	1	17	69.77
111	Cd	115	1	-4	468.40
118	Sn	115	1	883	12.90
121	Sb	115	1	41	5.27
137	Ba	115	1	28	7.48
205	Tl	165	1	71	17.08
208	Pb	165	1	277	1.82
232	Th	165	1	177	27.11
238	U	165	1	33	9.30

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	367189	0.76
45	Sc	1	2198650	1.42
72	Ge	1	1047607	1.49
115	In	1	2618639	1.31
165	Ho	1	3698894	0.81

Tune File# 1 c:\icpchem\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\AG081009A.B\087ICAL.D\087ICAL.D#
 Date Acquired: Aug 10 2009 09:56 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: Aug 10 2009 09:54 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	57454	2.68
51	V	72	1384602	1.93
52	Cr	72	1372006	0.28
55	Mn	72	1464416	1.26
59	Co	72	1764191	0.16
60	Ni	72	409818	1.72
63	Cu	72	979076	1.00
66	Zn	72	190440	1.50
75	As	72	169475	1.58
78	Se	72	28790	1.31
95	Mo	72	438801	1.48
107	Ag	115	1212795	1.22
111	Cd	115	227416	1.07
118	Sn	115	638283	0.63
121	Sb	115	733198	0.80
137	Ba	115	310900	0.47
205	Tl	165	1935696	0.85
208	Pb	165	2637712	0.66
232	Th	165	2426931	3.16
238	U	165	2684142	1.00

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357017	0.84	367189	97.2	30 - 120
45	Sc	1	2175000	2.00	2198650	98.9	30 - 120
72	Ge	1	1036228	0.96	1047607	98.9	30 - 120
115	In	1	2589357	0.36	2618639	98.9	30 - 120
165	Ho	1	3695829	0.53	3698894	99.9	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\AG081009A.B\086CALB.D\086CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\088_CCV.D\088_CCV.D#
 Date Acquired: Aug 10 2009 09:58 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: Aug 10 2009 09:56 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	49.65 ppb	0.92	50	99.3	90 - 110	
51	V	72	49.06 ppb	0.95	50	98.1	90 - 110	
52	Cr	72	49.92 ppb	0.60	50	99.8	90 - 110	
55	Mn	72	49.36 ppb	0.14	50	98.7	90 - 110	
59	Co	72	50.34 ppb	0.60	50	100.7	90 - 110	
60	Ni	72	49.67 ppb	0.42	50	99.3	90 - 110	
63	Cu	72	49.63 ppb	0.70	50	99.3	90 - 110	
66	Zn	72	52.10 ppb	0.54	50	104.2	90 - 110	
75	As	72	49.34 ppb	0.43	50	98.7	90 - 110	
78	Se	72	50.04 ppb	4.56	50	100.1	90 - 110	
95	Mo	72	49.69 ppb	0.55	50	99.4	90 - 110	
107	Ag	115	49.28 ppb	0.25	50	98.6	90 - 110	
111	Cd	115	49.24 ppb	0.70	50	98.5	90 - 110	
118	Sn	115	49.32 ppb	0.50	50	98.6	90 - 110	
121	Sb	115	49.29 ppb	0.48	50	98.6	90 - 110	
137	Ba	115	49.29 ppb	0.72	50	98.6	90 - 110	
205	Tl	165	49.61 ppb	2.22	50	99.2	90 - 110	
208	Pb	165	49.80 ppb	0.99	50	99.6	90 - 110	
232	Th	165	51.14 ppb	2.51	50	102.3	90 - 110	
238	U	165	50.39 ppb	1.56	50	100.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351371	1.00	367189	95.7	30 - 120
45	Sc	1	2164138	0.74	2198650	98.4	30 - 120
72	Ge	1	1029321	0.36	1047607	98.3	30 - 120
115	In	1	2597133	0.22	2618639	99.2	30 - 120
165	Ho	1	3706192	0.53	3698894	100.2	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\089_CCB.D\089_CCB.D#
 Date Acquired: Aug 10 2009 10:01 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: Aug 10 2009 09:56 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	0.000	ppb	0.00	1.00	
51 V	72	1	-0.009	ppb	338.45	1.00	
52 Cr	72	1	0.012	ppb	59.28	1.00	
55 Mn	72	1	0.022	ppb	43.47	1.00	
59 Co	72	1	0.010	ppb	28.80	1.00	
60 Ni	72	1	-0.073	ppb	8.59	1.00	
63 Cu	72	1	0.010	ppb	144.48	1.00	
66 Zn	72	1	-2.512	ppb	0.84	1.00	
75 As	72	1	0.021	ppb	33.66	1.00	
78 Se	72	1	0.361	ppb	104.40	1.00	
95 Mo	72	1	0.004	ppb	623.22	1.00	
107 Ag	115	1	0.021	ppb	6.66	1.00	
111 Cd	115	1	0.018	ppb	60.33	1.00	
118 Sn	115	1	0.058	ppb	14.07	1.00	
121 Sb	115	1	0.062	ppb	11.03	1.00	
137 Ba	115	1	0.017	ppb	12.47	1.00	
205 Tl	165	1	0.050	ppb	6.12	1.00	
208 Pb	165	1	0.014	ppb	17.03	1.00	
232 Th	165	1	1.175	ppb	19.44	1.00	Fail
238 U	165	1	0.018	ppb	4.03	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	354938	0.52	367189	96.7	30 - 120	
45 Sc	1	2151415	1.57	2198650	97.9	30 - 120	
72 Ge	1	1014505	0.33	1047607	96.8	30 - 120	
115 In	1	2580961	0.71	2618639	98.6	30 - 120	
165 Ho	1	3627865	0.73	3698894	98.1	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\090WASH.D\090WASH.D#
 Date Acquired: Aug 10 2009 10:04 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: Aug 10 2009 09:56 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	1.015 ppb	16.54	1.30	
51 V	72	1	5.138 ppb	2.71	6.50	
52 Cr	72	1	2.154 ppb	2.58	2.60	
55 Mn	72	1	1.034 ppb	3.82	1.30	
59 Co	72	1	1.063 ppb	0.98	1.30	
60 Ni	72	1	2.069 ppb	2.67	2.60	
63 Cu	72	1	2.077 ppb	4.34	2.60	
66 Zn	72	1	8.295 ppb	0.25	13.00	
75 As	72	1	5.196 ppb	0.91	6.50	
78 Se	72	1	5.418 ppb	18.66	6.50	
95 Mo	72	1	2.025 ppb	0.52	2.60	
107 Ag	115	1	5.220 ppb	3.85	6.50	
111 Cd	115	1	1.108 ppb	1.99	1.30	
118 Sn	115	1	10.370 ppb	3.55	13.00	
121 Sb	115	1	1.946 ppb	3.35	2.60	
137 Ba	115	1	1.029 ppb	4.99	1.30	
205 Tl	165	1	1.117 ppb	0.99	1.30	
208 Pb	165	1	1.077 ppb	3.12	1.30	
232 Th	165	1	2.386 ppb	1.30	2.60	
238 U	165	1	1.118 ppb	1.09	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	357020	1.30	367189	97.2	30 - 120	
45 Sc	1	2160440	1.21	2198650	98.3	30 - 120	
72 Ge	1	1029685	0.36	1047607	98.3	30 - 120	
115 In	1	2599204	1.03	2618639	99.3	30 - 120	
165 Ho	1	3673409	1.01	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\092ICSB.D\092ICSB.D#
 Date Acquired: Aug 10 2009 10:09 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: Aug 10 2009 09:56 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	99.06	1.64	100	99.1	80 - 120	
51 V	72		1	104.40	0.92	100	104.4	80 - 120	
52 Cr	72		1	101.90	0.77	100	101.9	80 - 120	
55 Mn	72		1	104.20	0.96	100	104.2	80 - 120	
59 Co	72		1	100.30	0.98	100	100.3	80 - 120	
60 Ni	72		1	95.98	1.20	100	96.0	80 - 120	
63 Cu	72		1	92.71	1.33	100	92.7	80 - 120	
66 Zn	72		1	101.10	1.14	100	101.1	80 - 120	
75 As	72		1	104.70	0.73	100	104.7	80 - 120	
78 Se	72		1	113.30	0.82	100	113.3	80 - 120	
95 Mo	72		1	2162.00	1.87	2100	103.0	80 - 120	
107 Ag	115		1	82.22	3.89	100	82.2	80 - 120	
111 Cd	115		1	96.12	2.03	100	96.1	80 - 120	
118 Sn	115		1	100.50	2.06	100	100.5	80 - 120	
121 Sb	115		1	102.50	1.80	100	102.5	80 - 120	
137 Ba	115		1	102.20	1.70	100	102.2	80 - 120	
205 Tl	165		1	94.99	0.97	100	95.0	80 - 120	
208 Pb	165		1	93.26	0.57	100	93.3	80 - 120	
232 Th	165		1	105.90	2.13	100	105.9	80 - 120	
238 U	165		1	99.43	0.45	100	99.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	327794	0.59	367189	89.3	30 - 120	
45 Sc	1	1916330	0.56	2198650	87.2	30 - 120	
72 Ge	1	875267	0.68	1047607	83.5	30 - 120	
115 In	1	2211280	1.50	2618639	84.4	30 - 120	
165 Ho	1	3358970	0.46	3698894	90.8	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\AG081009A.B\086CALB.D\086CALB.D#

0 :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\AG081009A.B\093WASH.D\093WASH.D#
 Date Acquired: Aug 10 2009 10:12 pm
 Operator: TEL **QC Summary:**
 Sample Name: WASH **Analytes: Pass**
 Misc Info: **ISTD: Pass**
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 09:56 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.006 ppb	173.19	1.30	
51 V	72	1	-0.034 ppb	135.22	6.50	
52 Cr	72	1	0.000 ppb	5464.80	2.60	
55 Mn	72	1	0.019 ppb	10.91	1.30	
59 Co	72	1	0.009 ppb	18.44	1.30	
60 Ni	72	1	-0.069 ppb	6.69	2.60	
63 Cu	72	1	0.016 ppb	51.79	2.60	
66 Zn	72	1	-1.678 ppb	2.09	13.00	
75 As	72	1	0.020 ppb	87.04	6.50	
78 Se	72	1	0.273 ppb	159.00	6.50	
95 Mo	72	1	1.722 ppb	10.74	2.60	
107 Ag	115	1	0.016 ppb	7.48	6.50	
111 Cd	115	1	0.027 ppb	39.87	1.30	
118 Sn	115	1	0.008 ppb	139.77	13.00	
121 Sb	115	1	0.031 ppb	10.67	2.60	
137 Ba	115	1	0.014 ppb	37.96	1.30	
205 Tl	165	1	0.019 ppb	7.24	1.30	
208 Pb	165	1	0.014 ppb	25.78	1.30	
232 Th	165	1	1.029 ppb	17.84	2.60	
238 U	165	1	0.020 ppb	2.81	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	366369	0.31	367189	99.8	30 - 120	
45 Sc	1	2076235	0.60	2198650	94.4	30 - 120	
72 Ge	1	994316	1.14	1047607	94.9	30 - 120	
115 In	1	2560866	0.59	2618639	97.8	30 - 120	
165 Ho	1	3648181	1.84	3698894	98.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\094_CCV.D\094_CCV.D#
 Date Acquired: Aug 10 2009 10:15 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: Aug 10 2009 09:56 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	49.46 ppb	4.16	50	98.9	90 - 110	
51	V	72	48.94 ppb	0.53	50	97.9	90 - 110	
52	Cr	72	50.07 ppb	1.20	50	100.1	90 - 110	
55	Mn	72	49.34 ppb	1.59	50	98.7	90 - 110	
59	Co	72	50.31 ppb	1.34	50	100.6	90 - 110	
60	Ni	72	50.23 ppb	2.45	50	100.5	90 - 110	
63	Cu	72	49.54 ppb	2.01	50	99.1	90 - 110	
66	Zn	72	52.03 ppb	1.37	50	104.1	90 - 110	
75	As	72	49.61 ppb	1.73	50	99.2	90 - 110	
78	Se	72	50.01 ppb	0.38	50	100.0	90 - 110	
95	Mo	72	50.34 ppb	1.73	50	100.7	90 - 110	
107	Ag	115	49.34 ppb	1.02	50	98.7	90 - 110	
111	Cd	115	49.64 ppb	0.95	50	99.3	90 - 110	
118	Sn	115	49.84 ppb	1.63	50	99.7	90 - 110	
121	Sb	115	49.47 ppb	0.88	50	98.9	90 - 110	
137	Ba	115	49.80 ppb	0.36	50	99.6	90 - 110	
205	Tl	165	50.15 ppb	0.99	50	100.3	90 - 110	
208	Pb	165	50.50 ppb	1.80	50	101.0	90 - 110	
232	Th	165	50.90 ppb	3.30	50	101.8	90 - 110	
238	U	165	51.21 ppb	1.74	50	102.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	358196	0.69	367189	97.6	30 - 120
45	Sc	1	2129878	1.22	2198650	96.9	30 - 120
72	Ge	1	1014484	1.02	1047607	96.8	30 - 120
115	In	1	2569748	0.08	2618639	98.1	30 - 120
165	Ho	1	3684571	0.80	3698894	99.6	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\095_CCB.D\095_CCB.D#
 Date Acquired: Aug 10 2009 10:18 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: Aug 10 2009 09:56 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

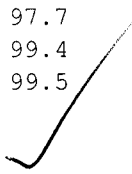
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.028	ppb	125.04	1.00	
51 V	72	1	-0.023	ppb	143.33	1.00	
52 Cr	72	1	-0.002	ppb	923.90	1.00	
55 Mn	72	1	0.028	ppb	32.43	1.00	
59 Co	72	1	0.009	ppb	26.21	1.00	
60 Ni	72	1	-0.067	ppb	9.77	1.00	
63 Cu	72	1	0.012	ppb	106.20	1.00	
66 Zn	72	1	-2.522	ppb	0.45	1.00	
75 As	72	1	0.008	ppb	139.22	1.00	
78 Se	72	1	-0.028	ppb	2465.70	1.00	
95 Mo	72	1	0.131	ppb	6.13	1.00	
107 Ag	115	1	0.017	ppb	9.39	1.00	
111 Cd	115	1	0.021	ppb	62.04	1.00	
118 Sn	115	1	0.019	ppb	40.06	1.00	
121 Sb	115	1	0.056	ppb	6.71	1.00	
137 Ba	115	1	0.019	ppb	11.10	1.00	
205 Tl	165	1	0.030	ppb	5.43	1.00	
208 Pb	165	1	0.013	ppb	16.52	1.00	
232 Th	165	1	1.108	ppb	18.47	1.00	Fail
238 U	165	1	0.017	ppb	5.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	365426	0.22	367189	99.5	30 - 120	
45 Sc	1	2161178	2.00	2198650	98.3	30 - 120	
72 Ge	1	1023099	0.56	1047607	97.7	30 - 120	
115 In	1	2603761	0.60	2618639	99.4	30 - 120	
165 Ho	1	3680889	1.54	3698894	99.5	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\AG081009A.B\086CALB.D\086CALB.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\AG081009A.B\096WASH.D\096WASH.D#
 Date Acquired: Aug 10 2009 10:20 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: Aug 10 2009 09:56 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	1.079 ppb	10.92	1.30	
51 V	72	1	5.130 ppb	1.45	6.50	
52 Cr	72	1	2.157 ppb	4.54	2.60	
55 Mn	72	1	1.063 ppb	4.53	1.30	
59 Co	72	1	1.050 ppb	1.09	1.30	
60 Ni	72	1	2.074 ppb	4.23	2.60	
63 Cu	72	1	2.123 ppb	1.17	2.60	
66 Zn	72	1	8.217 ppb	1.74	13.00	
75 As	72	1	5.217 ppb	0.89	6.50	
78 Se	72	1	5.154 ppb	5.40	6.50	
95 Mo	72	1	2.220 ppb	6.77	2.60	
107 Ag	115	1	5.308 ppb	1.41	6.50	
111 Cd	115	1	1.070 ppb	1.11	1.30	
118 Sn	115	1	10.290 ppb	0.24	13.00	
121 Sb	115	1	2.012 ppb	3.04	2.60	
137 Ba	115	1	1.086 ppb	2.73	1.30	
205 Tl	165	1	1.124 ppb	1.17	1.30	
208 Pb	165	1	1.090 ppb	1.55	1.30	
232 Th	165	1	2.384 ppb	1.99	2.60	
238 U	165	1	1.125 ppb	2.15	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	362803	1.37	367189	98.8	30 - 120	
45 Sc	1	2155781	1.24	2198650	98.1	30 - 120	
72 Ge	1	1022103	1.11	1047607	97.6	30 - 120	
115 In	1	2573971	0.56	2618639	98.3	30 - 120	
165 Ho	1	3674326	0.25	3698894	99.3	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\AG081009A.B\086CALB.D\086CALB.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: LRD

Date: 08/10/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.D#
 Date Acquired: Aug 10 2009 11:51 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: Aug 10 2009 11:49 pm
 Sample Type: CalBlk

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)	
9	Be	6	1	0	0.00
51	V	72	1	-204	211.14
52	Cr	72	1	2947	6.78
55	Mn	72	1	517	14.80
59	Co	72	1	33	35.39
60	Ni	72	1	87	45.12
63	Cu	72	1	677	10.89
66	Zn	72	1	237	18.82
75	As	72	1	69	15.74
78	Se	72	1	613	7.25
95	Mo	72	1	487	21.90
107	Ag	115	1	7	86.63
111	Cd	115	1	9	55.22
118	Sn	115	1	527	25.33
121	Sb	115	1	46	21.06
137	Ba	115	1	21	55.68
205	Tl	165	1	54	35.92
208	Pb	165	1	217	1.32
232	Th	165	1	210	24.29
238	U	165	1	58	9.14

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)	
6	Li	1	298913	0.41
45	Sc	1	1771505	1.08
72	Ge	1	851994	1.37
115	In	1	2290579	0.24
165	Ho	1	3269618	1.10

Tune File# 1 c:\icpchem\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\AG081009A.B\129ICAL.D\129ICAL.D#
 Date Acquired: Aug 10 2009 11:54 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: Aug 10 2009 11:52 pm
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	44626	1.86
51	V	72	1103412	1.83
52	Cr	72	1112907	2.35
55	Mn	72	1182637	1.64
59	Co	72	1406971	1.17
60	Ni	72	322074	1.24
63	Cu	72	765226	0.44
66	Zn	72	149309	0.51
75	As	72	135226	0.52
78	Se	72	23661	3.26
95	Mo	72	358767	0.65
107	Ag	115	1018041	1.08
111	Cd	115	189633	1.01
118	Sn	115	539808	0.91
121	Sb	115	608141	0.64
137	Ba	115	268515	0.48
205	Tl	165	1732019	1.28
208	Pb	165	2365674	0.82
232	Th	165	2194146	3.15
238	U	165	2441986	1.18

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	289713	1.35	298913	96.9	30 - 120
45	Sc	1	1702546	1.03	1771505	96.1	30 - 120
72	Ge	1	813760	0.90	851994	95.5	30 - 120
115	In	1	2210431	0.19	2290579	96.5	30 - 120
165	Ho	1	3250286	0.48	3269618	99.4	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures 0
 0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\130_CCV.D\130_CCV.D#
 Date Acquired: Aug 10 2009 11:56 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: Aug 10 2009 11:54 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	49.24 ppb	2.69	50	98.5	90 - 110	
51	V	72	48.00 ppb	0.71	50	96.0	90 - 110	
52	Cr	72	48.06 ppb	0.44	50	96.1	90 - 110	
55	Mn	72	48.06 ppb	0.53	50	96.1	90 - 110	
59	Co	72	49.30 ppb	0.89	50	98.6	90 - 110	
60	Ni	72	50.11 ppb	1.48	50	100.2	90 - 110	
63	Cu	72	49.80 ppb	0.70	50	99.6	90 - 110	
66	Zn	72	53.20 ppb	1.85	50	106.4	90 - 110	
75	As	72	49.30 ppb	0.12	50	98.6	90 - 110	
78	Se	72	51.84 ppb	3.80	50	103.7	90 - 110	
95	Mo	72	49.84 ppb	0.82	50	99.7	90 - 110	
107	Ag	115	48.57 ppb	0.91	50	97.1	90 - 110	
111	Cd	115	49.00 ppb	0.65	50	98.0	90 - 110	
118	Sn	115	48.97 ppb	0.11	50	97.9	90 - 110	
121	Sb	115	49.39 ppb	0.33	50	98.8	90 - 110	
137	Ba	115	49.11 ppb	0.94	50	98.2	90 - 110	
205	Tl	165	50.36 ppb	1.01	50	100.7	90 - 110	
208	Pb	165	50.41 ppb	1.00	50	100.8	90 - 110	
232	Th	165	52.89 ppb	2.77	50	105.8	90 - 110	
238	U	165	51.25 ppb	0.93	50	102.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	286336	1.45	298913	95.8	30 - 120
45	Sc	1	1694301	0.70	1771505	95.6	30 - 120
72	Ge	1	807041	0.62	851994	94.7	30 - 120
115	In	1	2219249	0.11	2290579	96.9	30 - 120
165	Ho	1	3221461	0.39	3269618	98.5	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\131_CCB.D\131_CCB.D#
 Date Acquired: Aug 10 2009 11:59 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: Aug 10 2009 11:54 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	0.007 ppb	173.23	1.00	
51 V	72	1	0.027 ppb	52.26	1.00	
52 Cr	72	1	0.022 ppb	96.05	1.00	
55 Mn	72	1	0.093 ppb	16.51	1.00	
59 Co	72	1	0.013 ppb	10.56	1.00	
60 Ni	72	1	0.031 ppb	15.88	1.00	
63 Cu	72	1	0.039 ppb	36.46	1.00	
66 Zn	72	1	0.568 ppb	5.54	1.00	
75 As	72	1	0.016 ppb	167.31	1.00	
78 Se	72	1	0.407 ppb	77.30	1.00	
95 Mo	72	1	-0.004 ppb	423.30	1.00	
107 Ag	115	1	0.018 ppb	31.54	1.00	
111 Cd	115	1	0.010 ppb	43.83	1.00	
118 Sn	115	1	0.075 ppb	23.85	1.00	
121 Sb	115	1	0.059 ppb	6.87	1.00	
137 Ba	115	1	0.017 ppb	19.95	1.00	
205 Tl	165	1	0.053 ppb	9.73	1.00	
208 Pb	165	1	0.016 ppb	6.36	1.00	
232 Th	165	1	1.410 ppb	17.65	1.00	Fail
238 U	165	1	0.018 ppb	20.10	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	293448	0.70	298913	98.2	30 - 120	
45 Sc	1	1702764	0.71	1771505	96.1	30 - 120	
72 Ge	1	833810	0.47	851994	97.9	30 - 120	
115 In	1	2223577	1.33	2290579	97.1	30 - 120	
165 Ho	1	3240597	0.45	3269618	99.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\132WASH.D\132WASH.D#
 Date Acquired: Aug 11 2009 12:02 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: Aug 10 2009 11:54 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	0.899 ppb	14.08	1.30	
51 V	72	1	4.971 ppb	1.08	6.50	
52 Cr	72	1	1.987 ppb	1.47	2.60	
55 Mn	72	1	1.001 ppb	2.00	1.30	
59 Co	72	1	1.052 ppb	4.51	1.30	
60 Ni	72	1	2.068 ppb	5.49	2.60	
63 Cu	72	1	2.048 ppb	1.81	2.60	
66 Zn	72	1	10.340 ppb	0.83	13.00	
75 As	72	1	5.128 ppb	2.68	6.50	
78 Se	72	1	4.579 ppb	16.89	6.50	
95 Mo	72	1	2.046 ppb	2.72	2.60	
107 Ag	115	1	5.235 ppb	2.60	6.50	
111 Cd	115	1	1.066 ppb	2.10	1.30	
118 Sn	115	1	10.190 ppb	0.75	13.00	
121 Sb	115	1	1.946 ppb	1.04	2.60	
137 Ba	115	1	1.082 ppb	1.38	1.30	
205 Tl	165	1	1.105 ppb	0.56	1.30	
208 Pb	165	1	1.062 ppb	0.76	1.30	
232 Th	165	1	2.471 ppb	1.77	2.60	
238 U	165	1	1.103 ppb	0.44	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291146	0.69	298913	97.4	30 - 120	
45 Sc	1	1730528	0.89	1771505	97.7	30 - 120	
72 Ge	1	836746	1.09	851994	98.2	30 - 120	
115 In	1	2252218	0.93	2290579	98.3	30 - 120	
165 Ho	1	3295222	0.70	3269618	100.8	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\151 CCV.D\151 CCV.D#
 Date Acquired: Aug 11 2009 12:54 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: Aug 10 2009 11:54 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	50.31	ppb	1.79	50	100.6	90 - 110
51	V	72	1	47.72	ppb	0.57	50	95.4	90 - 110
52	Cr	72	1	48.34	ppb	0.27	50	96.7	90 - 110
55	Mn	72	1	48.11	ppb	0.40	50	96.2	90 - 110
59	Co	72	1	49.47	ppb	0.66	50	98.9	90 - 110
60	Ni	72	1	50.01	ppb	1.09	50	100.0	90 - 110
63	Cu	72	1	49.70	ppb	0.74	50	99.4	90 - 110
66	Zn	72	1	52.91	ppb	0.63	50	105.8	90 - 110
75	As	72	1	49.12	ppb	0.02	50	98.2	90 - 110
78	Se	72	1	48.81	ppb	3.68	50	97.6	90 - 110
95	Mo	72	1	49.73	ppb	0.70	50	99.5	90 - 110
107	Ag	115	1	49.12	ppb	0.72	50	98.2	90 - 110
111	Cd	115	1	50.09	ppb	0.40	50	100.2	90 - 110
118	Sn	115	1	48.97	ppb	0.36	50	97.9	90 - 110
121	Sb	115	1	49.59	ppb	0.64	50	99.2	90 - 110
137	Ba	115	1	49.21	ppb	0.73	50	98.4	90 - 110
205	Tl	165	1	50.40	ppb	1.40	50	100.8	90 - 110
208	Pb	165	1	50.34	ppb	1.31	50	100.7	90 - 110
232	Th	165	1	49.83	ppb	3.41	50	99.7	90 - 110
238	U	165	1	51.61	ppb	1.72	50	103.2	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6	Li	1	298153	1.60	298913	99.7	30 - 120
45	Sc	1	1730257	0.51	1771505	97.7	30 - 120
72	Ge	1	823986	1.07	851994	96.7	30 - 120
115	In	1	2255073	0.60	2290579	98.4	30 - 120
165	Ho	1	3304129	1.16	3269618	101.1	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\152_CCB.D\152_CCB.D#
 Date Acquired: Aug 11 2009 12:57 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: Aug 10 2009 11:54 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

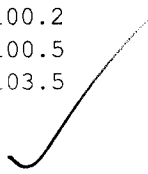
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	173.19	1.00	
51 V	72	1	0.010	ppb	756.86	1.00	
52 Cr	72	1	0.074	ppb	27.75	1.00	
55 Mn	72	1	0.077	ppb	12.16	1.00	
59 Co	72	1	0.014	ppb	33.69	1.00	
60 Ni	72	1	0.033	ppb	8.70	1.00	
63 Cu	72	1	0.015	ppb	93.89	1.00	
66 Zn	72	1	0.514	ppb	6.53	1.00	
75 As	72	1	0.008	ppb	121.93	1.00	
78 Se	72	1	0.477	ppb	100.92	1.00	
95 Mo	72	1	-0.063	ppb	25.38	1.00	
107 Ag	115	1	0.013	ppb	37.30	1.00	
111 Cd	115	1	0.020	ppb	88.08	1.00	
118 Sn	115	1	0.084	ppb	22.47	1.00	
121 Sb	115	1	0.051	ppb	1.64	1.00	
137 Ba	115	1	0.017	ppb	21.12	1.00	
205 Tl	165	1	0.032	ppb	6.00	1.00	
208 Pb	165	1	0.011	ppb	13.50	1.00	
232 Th	165	1	1.203	ppb	14.49	1.00	Fail
238 U	165	1	0.014	ppb	5.01	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299841	0.83	298913	100.3	30 - 120	
45 Sc	1	1753527	0.56	1771505	99.0	30 - 120	
72 Ge	1	853516	0.19	851994	100.2	30 - 120	
115 In	1	2301995	0.44	2290579	100.5	30 - 120	
165 Ho	1	3384139	1.05	3269618	103.5	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\153WASH.D\153WASH.D#
 Date Acquired: Aug 11 2009 01:00 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: Aug 10 2009 11:54 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	1.060 ppb	9.90	1.30	
51 V	72	1	5.022 ppb	1.13	6.50	
52 Cr	72	1	2.068 ppb	0.61	2.60	
55 Mn	72	1	0.987 ppb	1.84	1.30	
59 Co	72	1	1.023 ppb	1.68	1.30	
60 Ni	72	1	2.082 ppb	4.09	2.60	
63 Cu	72	1	2.089 ppb	1.60	2.60	
66 Zn	72	1	10.410 ppb	0.53	13.00	
75 As	72	1	5.031 ppb	1.06	6.50	
78 Se	72	1	5.439 ppb	8.08	6.50	
95 Mo	72	1	1.962 ppb	2.26	2.60	
107 Ag	115	1	5.147 ppb	1.92	6.50	
111 Cd	115	1	1.088 ppb	3.58	1.30	
118 Sn	115	1	10.280 ppb	1.11	13.00	
121 Sb	115	1	1.935 ppb	1.15	2.60	
137 Ba	115	1	1.067 ppb	5.26	1.30	
205 Tl	165	1	1.098 ppb	2.04	1.30	
208 Pb	165	1	1.070 ppb	1.69	1.30	
232 Th	165	1	2.403 ppb	2.53	2.60	
238 U	165	1	1.104 ppb	0.39	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300232	0.96	298913	100.4	30 - 120	
45 Sc	1	1774194	0.66	1771505	100.2	30 - 120	
72 Ge	1	859087	0.54	851994	100.8	30 - 120	
115 In	1	2320421	0.48	2290579	101.3	30 - 120	
165 Ho	1	3355379	1.38	3269618	102.6	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\154_BLK.D\154_BLK.D#
 Date Acquired: Aug 11 2009 01:03 am
 Operator: TEL
 Sample Name: LHQK3B
 Misc Info: BLANK 9218437 6020
 Vial Number: 3310
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Aug 10 2009 11:54 pm
 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	0.000 ppb	0.00	2.00	
51 V	72	1	0.024 ppb	51.22	2.00	
52 Cr	72	1	0.093 ppb	26.90	2.00	
55 Mn	72	1	0.035 ppb	2.81	2.00	
59 Co	72	1	0.000 ppb	4119.30	2.00	
60 Ni	72	1	0.012 ppb	100.08	2.00	
63 Cu	72	1	0.027 ppb	16.09	2.00	
66 Zn	72	1	1.101 ppb	0.97	2.00	
75 As	72	1	0.002 ppb	745.48	2.00	
78 Se	72	1	0.588 ppb	93.05	2.00	
95 Mo	72	1	-0.103 ppb	5.18	2.00	
107 Ag	115	1	0.005 ppb	75.82	2.00	
111 Cd	115	1	-0.002 ppb	430.98	2.00	
118 Sn	115	1	0.113 ppb	31.18	2.00	
121 Sb	115	1	0.028 ppb	10.91	2.00	
137 Ba	115	1	0.019 ppb	26.98	2.00	
205 Tl	165	1	0.041 ppb	43.48	2.00	
208 Pb	165	1	0.005 ppb	12.88	2.00	
232 Th	165	1	0.258 ppb	20.31	2.00	
238 U	165	1	0.000 ppb	129.33	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	298312	0.78	298913	99.8	30 - 120	
45 Sc	1	1756308	0.68	1771505	99.1	30 - 120	
72 Ge	1	842165	0.39	851994	98.8	30 - 120	
115 In	1	2267067	0.90	2290579	99.0	30 - 120	
165 Ho	1	3375860	0.76	3269618	103.2	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\155_LCS.D\155_LCS.D#
 Date Acquired: Aug 11 2009 01:05 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHQK3C
 Misc Info: LCS
 Vial Number: 3311
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	38.88	1.99	40	97.2	80 - 120	
51 V	72	1	40.21	0.82	40	100.5	80 - 120	
52 Cr	72	1	40.03	1.69	40	100.1	80 - 120	
55 Mn	72	1	40.22	0.64	40	100.6	80 - 120	
59 Co	72	1	40.96	0.98	40	102.4	80 - 120	
60 Ni	72	1	41.32	1.78	40	103.3	80 - 120	
63 Cu	72	1	41.48	0.21	40	103.7	80 - 120	
66 Zn	72	1	39.63	0.64	40	99.1	80 - 120	
75 As	72	1	38.99	0.16	40	97.5	80 - 120	
78 Se	72	1	39.62	3.95	40	99.1	80 - 120	
95 Mo	72	1	40.65	1.13	40	101.6	80 - 120	
107 Ag	115	1	40.06	0.99	40	100.2	80 - 120	
111 Cd	115	1	39.40	0.64	40	98.5	80 - 120	
118 Sn	115	1	0.04	26.89	40	0.1	80 - 120	
121 Sb	115	1	39.07	1.40	40	97.7	80 - 120	
137 Ba	115	1	40.34	0.59	40	100.9	80 - 120	
205 Tl	165	1	41.23	0.76	40	103.1	80 - 120	
208 Pb	165	1	41.06	1.12	40	102.7	80 - 120	
232 Th	165	1	42.93	1.91	40	107.3	80 - 120	
238 U	165	1	42.30	1.12	40	105.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	297384	0.11	298913	99.5	30 - 120	
45 Sc	1	1725208	0.25	1771505	97.4	30 - 120	
72 Ge	1	808629	0.60	851994	94.9	30 - 120	
115 In	1	2260003	0.86	2290579	98.7	30 - 120	
165 Ho	1	3313254	0.19	3269618	101.3	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\156AREF.D\156AREF.D#
 Date Acquired: Aug 11 2009 01:08 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5J
 Misc Info: D9H050230
 Vial Number: 3312
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 Sample Type: AllRef
 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	0.03	0.03	ppb	114.88	3600
51	V	72	1	-9.90	-9.90	ppb	25.72	3600
52	Cr	72	1	1,007.00	1007.00	ppb	0.85	3600
55	Mn	72	1	19.64	19.64	ppb	0.70	3600
59	Co	72	1	0.55	0.55	ppb	7.19	3600
60	Ni	72	1	3.96	3.96	ppb	3.51	3600
63	Cu	72	1	0.90	0.90	ppb	3.77	3600
66	Zn	72	1	1.17	1.17	ppb	3.46	3600
75	As	72	1	92.87	92.87	ppb	0.39	3600
78	Se	72	1	5.64	5.64	ppb	12.40	3600
95	Mo	72	1	24.86	24.86	ppb	0.30	3600
107	Ag	115	1	0.02	0.02	ppb	31.93	3600
111	Cd	115	1	0.01	0.01	ppb	403.77	3600
118	Sn	115	1	0.03	0.03	ppb	82.59	3600
121	Sb	115	1	0.21	0.21	ppb	9.47	3600
137	Ba	115	1	19.51	19.51	ppb	1.51	3600
205	Tl	165	1	0.08	0.08	ppb	19.57	3600
208	Pb	165	1	0.24	0.24	ppb	2.63	3600
232	Th	165	1	1.10	1.10	ppb	40.15	1000
238	U	165	1	36.88	36.88	ppb	0.69	3600

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	295625	0.47	298913	98.9	30 - 120
45	Sc	1	1742767	1.62	1771505	98.4	30 - 120
72	Ge	1	723920	0.41	851994	85.0	30 - 120
115	In	1	1949293	1.02	2290579	85.1	30 - 120
165	Ho	1	2964923	0.45	3269618	90.7	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\157SDIL.D\157SDIL.D#
 Date Acquired: Aug 11 2009 01:11 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5JP5
 Misc Info: SERIAL DILUTION
 Vial Number: 3401
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 Sample Type: SDIL
 Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\156AREF.D\156AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.02 ppb	173.22	0.01	345.9	90 - 110	
51 V	72	1	1.19 ppb	77.76	-1.98	-60.2	90 - 110	
52 Cr	72	1	203.30 ppb	1.15	201.40	100.9	90 - 110	
55 Mn	72	1	4.07 ppb	1.14	3.93	103.5	90 - 110	
59 Co	72	1	0.12 ppb	3.86	0.11	108.4	90 - 110	
60 Ni	72	1	1.06 ppb	5.25	0.79	133.4	90 - 110	
63 Cu	72	1	0.20 ppb	1.14	0.18	112.3	90 - 110	
66 Zn	72	1	0.43 ppb	6.92	0.23	184.9	90 - 110	
75 As	72	1	18.64 ppb	0.50	18.57	100.4	90 - 110	
78 Se	72	1	1.40 ppb	65.32	1.13	123.7	90 - 110	
95 Mo	72	1	4.85 ppb	2.17	4.97	97.5	90 - 110	
107 Ag	115	1	0.00 ppb	30.74	0.00	85.3	90 - 110	
111 Cd	115	1	0.02 ppb	5.15	0.00	2042.1	90 - 110	
118 Sn	115	1	0.08 ppb	17.82	0.01	1290.1	90 - 110	
121 Sb	115	1	0.05 ppb	1.78	0.04	112.1	90 - 110	
137 Ba	115	1	4.06 ppb	3.06	3.90	104.1	90 - 110	
205 Tl	165	1	0.01 ppb	15.54	0.02	76.8	90 - 110	
208 Pb	165	1	0.05 ppb	4.33	0.05	112.9	90 - 110	
232 Th	165	1	0.09 ppb	13.25	0.22	39.3	90 - 110	
238 U	165	1	7.96 ppb	2.44	7.38	107.9	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	320819	0.37	298913	107.3	30 - 120	
45 Sc	1	1834250	2.10	1771505	103.5	30 - 120	
72 Ge	1	842554	0.30	851994	98.9	30 - 120	
115 In	1	2234431	0.67	2290579	97.5	30 - 120	
165 Ho	1	3347473	1.35	3269618	102.4	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\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 10:34:35

Department: 090 (Metals)

Source: Spreadsheet

Sample: LHJ5JP5

Serial Dilution: 5.00

Sample Dilution: 1.00

Instrument: Agilent7500

Channel 272

File: AG081009A # 157

Method 6020_

Acquired: 08/11/2009 01:11:00

ICPMS_024

Matrix: AQUEOUS

Calibrated: 08/10/2009 23:51:00

Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9	10	0.10155	0.02936	246		*	
7440-62-2	Vanadium	51	13417	5.9650	-9.9020			*	
7440-47-3	Chromium	52	2339430	1016.5	1007.0	0.943		*	
7439-96-5	Manganese	55	50277	20.330	19.640	3.51		*	
7440-48-4	Cobalt	59	1777	0.59850	0.55220	8.38		*	
7440-02-0	Nickel	60	3607	5.2800	3.9580	33.4		*	
7440-50-8	Copper	63	2274	1.0135	0.90230	12.3		*	
7440-66-6	Zinc	66	905	2.1710	1.1740	84.9		*	
7440-38-2	Arsenic	75	26156	93.200	92.870	0.355	0.21	0.4	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	940	6.9800	5.6430	23.7	0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	18463	24.235	24.860	2.51		*	
7440-22-4	Silver	107	43	0.01788	0.02095	14.7		*	
7440-43-9	Cadmium	111	50	0.10515	0.00515	1940		*	
7440-31-5	Tin	118	963	0.41270	0.03199	1190		*	
7440-36-0	Antimony	121	334	0.23590	0.21050	12.1		*	
7440-39-3	Barium	137	11042	20.305	19.510	4.07		*	
7440-28-0	Thallium	205	272	0.06065	0.07902	23.2		*	
7439-92-1	Lead	208	1559	0.27445	0.24300	12.9		*	
7440-61-1	Uranium	238	200257	39.810	36.880	7.94		*	
7440-29-1	Thorium	232	2157	0.42985	1.0950	60.7		*	
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: 

Date: 8/11/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\158PDS.D\158PDS.D#
 Date Acquired: Aug 11 2009 01:14 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5JZ
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3402
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 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	190.20	0.03	ppb	1.01	200	95.1	75 - 125	
51 V	72	1	201.90	-9.90	ppb	2.77	200	106.2	75 - 125	
52 Cr	72	1	1215.00	1007.00	ppb	0.86	200	100.7	75 - 125	
55 Mn	72	1	222.50	19.64	ppb	1.95	200	101.3	75 - 125	
59 Co	72	1	196.80	0.55	ppb	0.59	200	98.1	75 - 125	
60 Ni	72	1	190.90	3.96	ppb	0.82	200	93.6	75 - 125	
63 Cu	72	1	186.60	0.90	ppb	0.27	200	92.9	75 - 125	
66 Zn	72	1	180.70	1.17	ppb	0.48	200	89.8	75 - 125	
75 As	72	1	294.50	92.87	ppb	0.32	200	100.6	75 - 125	
78 Se	72	1	230.40	5.64	ppb	1.20	200	112.0	75 - 125	
95 Mo	72	1	236.40	24.86	ppb	0.88	200	105.1	75 - 125	
107 Ag	115	1	42.46	0.02	ppb	0.68	50	84.9	75 - 125	
111 Cd	115	1	178.90	0.01	ppb	1.22	200	89.4	75 - 125	
118 Sn	115	1	175.20	0.03	ppb	0.96	200	87.6	75 - 125	
121 Sb	115	1	192.40	0.21	ppb	0.92	200	96.1	75 - 125	
137 Ba	115	1	213.80	19.51	ppb	0.80	200	97.4	75 - 125	
205 Tl	165	1	173.20	0.08	ppb	1.27	200	86.6	75 - 125	
208 Pb	165	1	168.90	0.24	ppb	0.70	200	84.3	75 - 125	
232 Th	165	1	0.16	1.10	ppb	11.34	200	0.1	75 - 125	
238 U	165	1	214.20	36.88	ppb	0.92	200	90.4	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	296347	0.77	298913	99.1	30 - 120	
45 Sc	1	1782879	1.26	1771505	100.6	30 - 120	
72 Ge	1	721654	0.61	851994	84.7	30 - 120	
115 In	1	1942489	0.60	2290579	84.8	30 - 120	
165 Ho	1	2974004	0.68	3269618	91.0	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\
 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG081009A.B\128CALB.D\128CALB.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: 08/11/09 10:34:38

Department: 090 (Metals) Source: Spreadsheet
Sample: LHJ5JZ Spike Dilution: 1.00 Sample Dilution: 1.00

Instrument: Agilent7500 Channel 272
File: AG081009A # 158 Method 6020_
Acquired: 08/11/2009 01:14:00 ICPMS_024 Matrix: AQUEOUS
Calibrated: 08/10/2009 23:51:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	86801	190.20	0.02936	95.1	200		<input checked="" type="checkbox"/>
7440-62-2	Vanadium	51	1975700	201.90	-9.9020	101	200		<input type="checkbox"/>
7440-47-3	Chromium	52	11968700	1215.0	1007.0	104	200	*	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	2333050	222.50	19.640	101	200		<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	2456120	196.80	0.55220	98.1	200		<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	545083	190.90	3.9580	93.5	200		<input checked="" type="checkbox"/>
7440-50-8	Copper	63	1265700	186.60	0.90230	92.8	200		<input checked="" type="checkbox"/>
7440-66-6	Zinc	66	239105	180.70	1.1740	89.8	200		<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	353047	294.50	92.870	101	200		<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	47672	230.40	5.6430	112	200		<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	751723	236.40	24.860	106	200		<input type="checkbox"/>
7440-22-4	Silver	107	379825	42.460	0.02095	84.9	50.0		<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	298050	178.90	0.00515	89.4	200		<input checked="" type="checkbox"/>
7440-31-5	Tin	118	830836	175.20	0.03199	87.6	200		<input type="checkbox"/>
7440-36-0	Antimony	121	1028040	192.40	0.21050	96.1	200		<input checked="" type="checkbox"/>
7440-39-3	Barium	137	504526	213.80	19.510	97.1	200		<input checked="" type="checkbox"/>
7440-28-0	Thallium	205	2744850	173.20	0.07902	86.6	200		<input checked="" type="checkbox"/>
7439-92-1	Lead	208	3655250	168.90	0.24300	84.3	200		<input checked="" type="checkbox"/>
7440-61-1	Uranium	238	4786410	214.20	36.880	88.7	200		<input checked="" type="checkbox"/>
7440-29-1	Thorium	232	3334	0.15660	1.0950				
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				

AS ready
Z
8/11/09

Reviewed by: *Z* Date: *8/11/09*

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG081009A.B\159_MS.D\159_MS.D#
 Date Acquired: Aug 11 2009 01:16 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5JS
 Misc Info: MATRIX SPIKE
 Vial Number: 3403
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 Sample Type: MS
 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	39.12	0.03	ppb	1.92	40	97.7	50 - 150	
51 V	72	1	34.65	-9.90	ppb	1.03	40	115.1	50 - 150	
52 Cr	72	1	1074.00	1007.00	ppb	0.91	40	102.6	50 - 150	
55 Mn	72	1	60.83	19.64	ppb	0.86	40	102.0	50 - 150	
59 Co	72	1	40.96	0.55	ppb	0.44	40	101.0	50 - 150	
60 Ni	72	1	52.86	3.96	ppb	0.74	40	120.3	50 - 150	
63 Cu	72	1	38.62	0.90	ppb	1.06	40	94.4	50 - 150	
66 Zn	72	1	37.97	1.17	ppb	0.50	40	92.2	50 - 150	
75 As	72	1	135.90	92.87	ppb	0.44	40	102.3	50 - 150	
78 Se	72	1	51.74	5.64	ppb	0.84	40	113.4	50 - 150	
95 Mo	72	1	69.83	24.86	ppb	1.17	40	107.7	50 - 150	
107 Ag	115	1	34.87	0.02	ppb	1.26	40	87.1	50 - 150	
111 Cd	115	1	36.74	0.01	ppb	1.70	40	91.8	50 - 150	
118 Sn	115	1	0.17	0.03	ppb	19.14	40	0.4	50 - 150	
121 Sb	115	1	40.55	0.21	ppb	0.68	40	100.8	50 - 150	
137 Ba	115	1	59.52	19.51	ppb	0.80	40	100.0	50 - 150	
205 Tl	165	1	36.14	0.08	ppb	0.76	40	90.2	50 - 150	
208 Pb	165	1	35.29	0.24	ppb	0.83	40	87.7	50 - 150	
232 Th	165	1	40.88	1.10	ppb	1.40	40	99.5	50 - 150	
238 U	165	1	73.60	36.88	ppb	0.75	40	95.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	301894	0.73	298913	101.0	30 - 120	
45 Sc	1	1788975	0.02	1771505	101.0	30 - 120	
72 Ge	1	731996	0.44	851994	85.9	30 - 120	
115 In	1	1975332	0.66	2290579	86.2	30 - 120	
165 Ho	1	3014503	0.31	3269618	92.2	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\160 MSD.D\160 MSD.D#
 Date Acquired: Aug 11 2009 01:19 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LHJ5JD
 Misc Info: MATRIX SPIKE DUPLICATE
 Vial Number: 3404
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Aug 10 2009 11:54 pm
 Sample Type: MSD
 Dilution Factor: 1.00

QC Summary:

Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG081009A.B\159 MS.D\159 MS.D#

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	40.08 ppb	2.47	39.12	2.42	20	
51 V	72	1	34.64 ppb	7.93	34.65	0.03	20	
52 Cr	72	1	1085.00 ppb	1.12	1074.00	1.02	20	
55 Mn	72	1	61.13 ppb	0.49	60.83	0.49	20	
59 Co	72	1	41.42 ppb	0.47	40.96	1.12	20	
60 Ni	72	1	42.24 ppb	0.79	52.86	22.33	20	
63 Cu	72	1	38.88 ppb	0.95	38.62	0.67	20	
66 Zn	72	1	38.05 ppb	0.87	37.97	0.21	20	
75 As	72	1	135.60 ppb	0.93	135.90	0.22	20	
78 Se	72	1	52.09 ppb	3.73	51.74	0.67	20	
95 Mo	72	1	69.20 ppb	0.72	69.83	0.91	20	
107 Ag	115	1	35.10 ppb	0.69	34.87	0.66	20	
111 Cd	115	1	37.15 ppb	0.83	36.74	1.11	20	
118 Sn	115	1	0.05 ppb	29.44	0.17	106.27	20	
121 Sb	115	1	39.99 ppb	1.01	40.55	1.39	20	
137 Ba	115	1	60.09 ppb	0.32	59.52	0.95	20	
205 Tl	165	1	36.12 ppb	1.29	36.14	0.06	20	
208 Pb	165	1	35.41 ppb	1.60	35.29	0.34	20	
232 Th	165	1	42.20 ppb	0.57	40.88	3.18	20	
238 U	165	1	74.47 ppb	0.77	73.60	1.18	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	301657	1.03	298913	100.9	30 - 120	
45 Sc	1	1761698	0.65	1771505	99.4	30 - 120	
72 Ge	1	720894	0.59	851994	84.6	30 - 120	
115 In	1	1941748	0.34	2290579	84.8	30 - 120	
165 Ho	1	2997870	0.50	3269618	91.7	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\162_CCV.D\162_CCV.D#
 Date Acquired: Aug 11 2009 01:25 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: Aug 10 2009 11:54 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	48.27 ppb	4.39	50	96.5	90 - 110
51	V	72	1	48.33 ppb	0.92	50	96.7	90 - 110
52	Cr	72	1	48.60 ppb	0.67	50	97.2	90 - 110
55	Mn	72	1	48.58 ppb	0.51	50	97.2	90 - 110
59	Co	72	1	49.74 ppb	0.40	50	99.5	90 - 110
60	Ni	72	1	50.63 ppb	1.30	50	101.3	90 - 110
63	Cu	72	1	50.73 ppb	0.91	50	101.5	90 - 110
66	Zn	72	1	52.89 ppb	0.03	50	105.8	90 - 110
75	As	72	1	49.08 ppb	0.23	50	98.2	90 - 110
78	Se	72	1	49.04 ppb	5.02	50	98.1	90 - 110
95	Mo	72	1	50.09 ppb	0.48	50	100.2	90 - 110
107	Ag	115	1	49.07 ppb	1.64	50	98.1	90 - 110
111	Cd	115	1	49.16 ppb	0.69	50	98.3	90 - 110
118	Sn	115	1	49.21 ppb	0.88	50	98.4	90 - 110
121	Sb	115	1	48.96 ppb	1.24	50	97.9	90 - 110
137	Ba	115	1	49.26 ppb	1.17	50	98.5	90 - 110
205	Tl	165	1	49.83 ppb	0.99	50	99.7	90 - 110
208	Pb	165	1	49.58 ppb	1.03	50	99.2	90 - 110
232	Th	165	1	48.98 ppb	3.84	50	98.0	90 - 110
238	U	165	1	50.12 ppb	0.85	50	100.2	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	315547	0.53	298913	105.6	30 - 120
45	Sc	1	1781709	0.85	1771505	100.6	30 - 120
72	Ge	1	851013	0.92	851994	99.9	30 - 120
115	In	1	2337704	0.88	2290579	102.1	30 - 120
165	Ho	1	3412389	0.60	3269618	104.4	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\163_CCB.D\163_CCB.D#
 Date Acquired: Aug 11 2009 01:27 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: Aug 10 2009 11:54 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

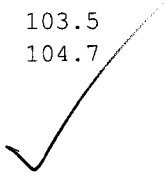
QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.020	ppb	100.15	1.00	
51 V	72	1	0.021	ppb	50.63	1.00	
52 Cr	72	1	0.033	ppb	46.89	1.00	
55 Mn	72	1	0.076	ppb	2.39	1.00	
59 Co	72	1	0.013	ppb	20.92	1.00	
60 Ni	72	1	0.030	ppb	38.08	1.00	
63 Cu	72	1	0.022	ppb	44.15	1.00	
66 Zn	72	1	0.476	ppb	12.78	1.00	
75 As	72	1	-0.004	ppb	98.42	1.00	
78 Se	72	1	0.595	ppb	13.67	1.00	
95 Mo	72	1	-0.056	ppb	29.24	1.00	
107 Ag	115	1	0.013	ppb	11.48	1.00	
111 Cd	115	1	0.020	ppb	28.22	1.00	
118 Sn	115	1	0.095	ppb	23.08	1.00	
121 Sb	115	1	0.048	ppb	4.98	1.00	
137 Ba	115	1	0.019	ppb	36.45	1.00	
205 Tl	165	1	0.031	ppb	9.59	1.00	
208 Pb	165	1	0.013	ppb	7.84	1.00	
232 Th	165	1	1.255	ppb	14.06	1.00	Fail
238 U	165	1	0.016	ppb	14.36	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	320735	0.46	298913	107.3	30 - 120	
45 Sc	1	1822900	0.60	1771505	102.9	30 - 120	
72 Ge	1	877256	0.79	851994	103.0	30 - 120	
115 In	1	2371725	0.81	2290579	103.5	30 - 120	
165 Ho	1	3421991	0.96	3269618	104.7	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\AG081009A.B\128CALB.D\128CALB.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\AG081009A.B\164WASH.D\164WASH.D#
 Date Acquired: Aug 11 2009 01:30 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: Aug 10 2009 11:54 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	0.918 ppb	9.59	1.30	
51 V	72	1	4.944 ppb	1.70	6.50	
52 Cr	72	1	2.036 ppb	2.70	2.60	
55 Mn	72	1	1.004 ppb	2.24	1.30	
59 Co	72	1	1.034 ppb	3.53	1.30	
60 Ni	72	1	2.145 ppb	4.40	2.60	
63 Cu	72	1	2.011 ppb	3.99	2.60	
66 Zn	72	1	10.360 ppb	1.18	13.00	
75 As	72	1	5.021 ppb	2.56	6.50	
78 Se	72	1	6.213 ppb	5.56	6.50	
95 Mo	72	1	2.018 ppb	5.46	2.60	
107 Ag	115	1	5.178 ppb	3.40	6.50	
111 Cd	115	1	1.081 ppb	6.58	1.30	
118 Sn	115	1	10.290 ppb	1.81	13.00	
121 Sb	115	1	1.925 ppb	2.85	2.60	
137 Ba	115	1	1.049 ppb	4.83	1.30	
205 Tl	165	1	1.117 ppb	1.04	1.30	
208 Pb	165	1	1.062 ppb	1.56	1.30	
232 Th	165	1	2.407 ppb	0.53	2.60	
238 U	165	1	1.103 ppb	2.19	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	318356	0.12	298913	106.5	30 - 120	
45 Sc	1	1828409	0.73	1771505	103.2	30 - 120	
72 Ge	1	879735	0.27	851994	103.3	30 - 120	
115 In	1	2379297	0.71	2290579	103.9	30 - 120	
165 Ho	1	3392920	0.86	3269618	103.8	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\AG081009A.B\128CALB.D\128CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed