SDG # 8304634

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Tronox LLC, Henderson

SDG: 8304634
Lots #: D9J010204, D9J010210, D9J030137, D9J030138

Frank Hagar

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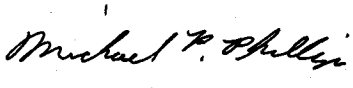

Michael P. Phillips
Project Manager

October 27, 2009

Case Narrative
SDG 8304634

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
One sample was received under chain of custody at a temperature of 4.9°C on October 1, 2009, and was logged under lot D9J010204. One sample was received under chain of custody at a temperature of 4.9°C on October 1, 2009, and was logged under lot D9J010210. One sample was received under chain of custody at a temperature of 1.9°C on October 3, 2009, and was logged under lot D9J030137. Two samples were received under chain of custody at a temperature of 1.9°C on October 3, 2009, and were logged under lot D9J030138. These lots are reported here under SDG 8304634.

GC Semivolatiles / Organophosphorus Pesticides – SW846 Method 8141A
The method required MS/MSD could not be performed for QC batch 9274555 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 9274555 exhibited a %Difference value out of range for Naled. The overall mean %Difference was within control limits; therefore, method criteria were met and corrective action was deemed unnecessary. In addition, this compound was not detected in the associated samples.

Total Arsenic and Selenium – SW846 Method 6020/Collision Cell
The method required MS/MSD was performed for Total Metals QC batch 9278251 using sample D9J030137-001 (PB100209), 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, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

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

EXECUTIVE SUMMARY - Detection Highlights

D9J010204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD

NO DETECTABLE PARAMETERS

EXECUTIVE SUMMARY - Detection Highlights

D9J010210

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
NO DETECTABLE PARAMETERS				

EXECUTIVE SUMMARY - Detection Highlights

D9J030137

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
NO DETECTABLE PARAMETERS				

EXECUTIVE SUMMARY - Detection Highlights

D9J030138

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
M-76B 10/02/09 11:55 001				
Arsenic	110	5.0	ug/L	SW846 6020
Selenium	4.5 B	5.0	ug/L	SW846 6020
M-76009B 10/02/09 11:55 002				
Arsenic	110	5.0	ug/L	SW846 6020
Selenium	3.9 B	5.0	ug/L	SW846 6020

METHODS SUMMARY

8304634

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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

8304634

ANALYTICAL METHOD	ANALYST	ANALYST ID
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

8304634 : D9J010204

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LLTKN	001	TR-4B	09/30/09	12:25

NOTE(S):

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

(Continued on next page)

SAMPLE SUMMARY

8304634 : D9J010210

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LLTKX	001	TR-2B	09/30/09	11:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
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- Results noted as "ND" were not detected at or above the stated limit.
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(Continued on next page)

SAMPLE SUMMARY

8304634 : D9J030137

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LL0FG	001	PB100209	10/02/09	11:11

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
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- 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.
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(Continued on next page)

SAMPLE SUMMARY

8304634 : D9J030138

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LL0FJ	001	M-76B	10/02/09	11:55
LL0FK	002	M-76009B	10/02/09	11:55

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

D9J010204

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	SW846 8141A		9274555	

QC DATA ASSOCIATION SUMMARY

D9J010210

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	SW846 8141A		9274555	

QC DATA ASSOCIATION SUMMARY

D9J030137

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		9278251	9278155

QC DATA ASSOCIATION SUMMARY

D9J030138

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		9278251	9278155
002	WATER	SW846 6020		9278251	9278155

TestAmerica

Semivolatile GC

CLP-Like Forms

Lot ID: D9J010204

Client: Northgate/Tronox

Method: SW846 8141A

Associated Samples: 001

Batch: 9274555

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THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TR-4B
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010204-001
Matrix:	WATER	**Lab WorkOrder:**	LLTKN1AA
% Moisture:	N/A	**Date/Time Collected:**	09/30/09 12:25
Basis:	Wet	**Date/Time Received:**	10/01/09 08:30
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 16:41
Sample Aliquot:	1057 mL	**Instrument ID:**	D
Dilution Factor:	1		

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TR-4B
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010204-001
Matrix:	WATER	**Lab WorkOrder:**	LLTKN1AA
% Moisture:	N/A	**Date/Time Collected:**	09/30/09 12:25
Basis:	Wet	**Date/Time Received:**	10/01/09 08:30
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 16:41
Sample Aliquot:	1057 mL	**Instrument ID:**	D
Dilution Factor:	1		

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	91	60	154	
24934-91-6	Chlormefos	78	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555B
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 14:51
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555B
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 14:51
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	90	60	154	
24934-91-6	Chlormefos	73	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I09P29H
Lot/SDG Number: 8304634 **QC Batch ID:** 9274555

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
TR-4B	LLTKN1AA	78	91							0
TR-2B	LLTKX1AA	63	85							0
INTRA-LAB BLANK	LLVJ01AA	73	90							0
CHECK SAMPLE	LLVJ01AC	109	98							0
DUPLICATE CHECK	LLVJ01AD	108	100							0

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555C
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 15:27
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorvos	4.00	4.04	101		40 - 193
Thionazin	4.00	3.65	91		39 - 180
Dimethoate	4.00	3.03	76		33 - 139
Disulfoton	4.00	3.57	89		44 - 139
EPN	4.00	3.78	94		50 - 150
Ethoprop	4.00	3.71	93		43 - 165
Famphur	8.00	7.79	97		51 - 131
Fensulfothion	4.00	3.54	89		46 - 115
Fenthion	4.00	3.44	86		63 - 128
Malathion	4.00	3.73	93		53 - 137
Merphos	4.00	3.72	93		50 - 150
Methyl parathion	4.00	3.75	94		55 - 131
Azinphos-methyl	4.00	3.55	89		42 - 125
Mevinphos	4.00	2.65	66		39 - 175
Ethyl parathion	4.00	3.39	85		47 - 142
Phorate	4.00	3.00	75		46 - 142
Ronnel	4.00	3.42	86		43 - 115
Sulfotepp	4.00	3.25	81		29 - 166
Trichloronate	4.00	3.18	80		60 - 115
Chlorpyrifos	4.00	3.80	95		60 - 120
Coumaphos	4.00	3.60	90		61 - 115
Diazinon	4.00	3.88	97		47 - 149

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	98	60	154	
24934-91-6	Chlormefos	109	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555L
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AD
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 16:04
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

Analyte	True	Found	C	% Rec	Q	RPD	Q	QC Limits	
								% Rec	RPD
Dichlorvos	4.00	3.97		99		1.6		40 - 193	49
Thionazin	4.00	3.78		95		3.6		39 - 180	40
Dimethoate	4.00	2.98		75		1.5		33 - 139	50
Disulfoton	4.00	3.59		90		0.44		44 - 139	40
EPN	4.00	4.00		100		5.8		50 - 150	50
Ethoprop	4.00	3.88		97		4.4		43 - 165	36
Famphur	8.00	8.02		100		2.9		51 - 131	88
Fensulfothion	4.00	3.64		91		2.7		46 - 115	62
Fenthion	4.00	3.57		89		3.7		63 - 128	41
Malathion	4.00	3.89		97		4.3		53 - 137	28
Merphos	4.00	3.89		97		4.4		50 - 150	50
Methyl parathion	4.00	3.82		96		2.0		55 - 131	30
Azinphos-methyl	4.00	3.57		89		0.39		42 - 125	36
Mevinphos	4.00	2.64		66		0.41		39 - 175	40
Ethyl parathion	4.00	3.57		89		5.2		47 - 142	40
Phorate	4.00	3.04		76		1.1		46 - 142	40
Ronnel	4.00	3.56		89		3.9		43 - 115	39
Sulfotepp	4.00	3.39		85		4.1		29 - 166	40
Trichloronate	4.00	3.27		82		2.9		60 - 115	38
Chlorpyrifos	4.00	4.02		100		5.6		60 - 120	34
Coumaphos	4.00	3.67		92		2.1		61 - 115	43
Diazinon	4.00	3.91		98		0.59		47 - 149	40

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	100	60	154	
24934-91-6	Chlormefos	108	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	040F4001.
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555B
Matrix:	WATER	**Lab Work Order:**	LLVJ01AA
Analysis Method:	8141A	**Date/Time Extracted:**	10/01/09 20:05
Extraction Method:	I09P29H	**Date/Time Analyzed:**	10/06/09 14:51
QC Batch ID:	9274555	**Instrument ID:**	D

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
TR-4B	LLTKN1AA	040F4001.	10/06/09	16:41
TR-2B	LLTKX1AA	041F4101.	10/06/09	17:17
CHECK SAMPLE	LLVJ01AC C	038F3801.	10/06/09	15:27
DUPLICATE CHECK	LLVJ01AD L	039F3901.	10/06/09	16:04

Report Date : 30-Sep-2009 08:31

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
1 o,o,o-TEPT	1.63582	1.46357	1.69904	1.49231	1.55334	1.44588					
	1.33471						AVRG		1.51781		8.08371
2 Dichlorvos	1.09804	1.00105	1.14275	1.03578	1.13071	1.11714					
	1.09964						AVRG		1.08930		4.76749
3 Mevinphos	5844	34212	104479	248213	402659	602352					
	819859						WLINR	0.08261	0.53929		0.99057
5 Thionazin	26137	125634	280712	563076	833121	1175630					
	1528441						WLINR	0.04498	1.14087		0.99227

*All weighted linear $1/x^2$

TestAmerica

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Quant Method : ISTD
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Last Edit : 30-Sep-2009 08:31 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	5.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
6 Demeton-O	8888	43142	84853	165026	243630	345285	434270	WLINR	0.00318	0.96138		0.99165
7 Ethoprop	39547	126916	278033	553642	815624	1147081	1475254	WLINR	0.01618	1.07726		0.99457
8 Naled	5310	29826	78159	178502	292094	423022	571005	WLINR	0.07277	0.38445		0.99629
10 Sulfotepp	1.53870	1.45506	1.61167	1.41213	1.42888	1.35179	1.25989	AVRG		1.43687		8.06106
11 Phorate	65747	152671	291306	533826	765652	1060353	1353850	WLINR	-0.07478	0.92708		0.99400
12 Dimethoate	+++++	80163	226488	510687	808318	1193294	1575516	WLINR	0.10278	1.12223		0.99768
13 Demeton-S	38231	82067	162056	321884	469949	664552	864178	WLINR	-0.02988	0.86412		0.99734

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TestAmerica

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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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
14 Simazine	+++++	0.37114	0.38516	0.32753	0.33986	0.32914					
	0.30906						AVRG		0.34365		8.39328
15 Atrazine	+++++	0.42071	0.44480	0.40125	0.42142	0.42626					
	0.41891						AVRG		0.42222		3.31561
16 propazine	0.47409	0.45855	0.44433	0.40832	0.42584	0.43090					
	0.41719						AVRG		0.43703		5.34210
17 Disulfoton	20950	82596	206154	430185	637297	902155					
	1174534						WLINR	0.05288	1.26562		0.99670
18 Diazinon	1.88382	1.82569	1.81443	1.58003	1.61382	1.56949					
	1.40473						AVRG		1.67029		10.44280
19 Methyl Parathion	25143	93936	198723	413467	624051	900226					
	1183337						WLINR	0.04024	1.23862		0.99868
20 Ronnel	30043	92833	207764	431001	655015	986468					
	1357486						WLINR	0.03640	1.31799		0.99738

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TestAmerica

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Start Cal Date : 29-SEP-2009 12:33
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Last Edit : 30-Sep-2009 08:31 GC_D.i

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
21 Malathion	0.73980 / 0.92478	0.86061	1.01096	0.96567	1.01070	0.99917	AVRG		0.93024		10.76267	
22 Fenthion	25618 / 1181597	81008	197350	415453	617147	893955	WLINR	0.04167	1.22010		0.99680	
23 Parathion	+++++ / 1129725	64057	164552	364258	575984	833868	WLINR	0.09794	1.18191		0.99826	
24 Chlorpyrifos	+++++ / 1.57114	2.09077	1.98130	1.64856	1.66053	1.68232	AVRG		1.77243		11.87404	
25 Trichloronate	39953 / 1577851	111835	246154	514604	784208	1161418	WLINR	0.03585	1.57763		0.99851	
26 Anilazine	+++++ / 72734	3022	9122	18930	30638	51752	WLINR	0.13554	0.07134		0.98986	<- r = 0.995
27 Merphos-A (Merphos)	+++++ / 569663	2369	19841	99237	171288	390389	QUAD	0.32491	2.46824	-0.69646	0.98447	<- NTC

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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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
28 Tetrachlorvinphos (Stirophos)	17165	56276	132732	293015	464319	712949	QUAD	0.07115	1.11462	-0.05261	0.99826
	992586										
29 Tokuthion	38426	102445	227163	463539	700700	1022545	WLINR	0.02104	1.36883		0.99735
	1372371										
30 Merphos-B (Merphos Oxone)	1.18673	1.20397	1.23721	1.04485	1.04018	0.82953	AVRG		1.03395		19.75426
	0.69514										
31 Carbophenothion-methyl	21792	68129	158754	337052	518631	756521	WLINR	0.04109	1.01816		0.99674
	1019566										
32 Fensulfothion	20933	74021	170156	382549	574661	828723	WLINR	0.04849	1.12420		0.99732
	1083760										
33 Bolstar / Famphur	61134	173165	392428	780681	1162399	1654375	WLINR	0.04532	1.13463		0.99719
	2168160										
34 Carbophenothion	35249	94798	205286	394500	583033	846237	WLINR	0.01102	1.15013		0.99759
	1114078										

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Last Edit : 30-Sep-2009 08:31 GC_D.i

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
36 Phosmet	21966 / 881528	62864	146573	301111	461134	660771	WLINR	0.03153	0.89522		0.99668
37 EPN	34992 / 1075540	94375	194560	394014	584842	822064	WLINR	0.00956	1.12405		0.99820
38 Azinphos-methyl	21324 / 902800	58851	149459	317670	489484	687141	WLINR	0.03852	0.93412		0.99284
40 Azinphos-ethyl	1.10513 / 0.93458	1.01592	1.07941	0.96607	1.03338	1.00799	AVRG		1.02035		5.84215
41 Coumaphos	22677 / 924152	63688	149836	305626	472023	685194	WLINR	0.03191	0.92139		0.99604
M 42 Total Demeton	47119 / 1298448	125209	246909	486910	713579	1009837	WLINR	-0.00080	1.37869		0.99748
M 43 Merphos	40761 / 1281411	109753	230843	474965	693990	992478	WLINR	0.01251	1.34499		0.99803

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Last Edit : 30-Sep-2009 08:31 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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
$ 4 Chlormefos	1.36448	1.36588	1.62655	1.40439	1.42366	1.38996					
	1.30084						AVRG		1.41082		7.28870
$ 35 Triphenyl phosphate	25377	71967	159284	326923	483386	690215					
	913461						WLINR	0.02309	0.94371		0.99807

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

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

Report Date: 30-Sep-2009 08:31

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\010F1001.D
30-SEP-2009 03:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\027F2701.D

Report Date : 30-Sep-2009 08:45

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D

SEE CALIBRATION HISTORY

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
1 o,o,o-TEPT	1.70944 / 1.40917	1.82270	1.91994	1.64505	1.63242	1.58596	AVRG		1.67495		9.87961
2 Dichlorvos	1.36258 / 1.11164	1.20538	1.26335	1.09465	1.15696	1.15368	AVRG		1.19261		7.88032
4 Mevinphos	0.62406 / 0.67540	0.71021	0.81978	0.72187	0.74254	0.72095	AVRG		0.71640		8.38801
5 Demeton-O	0.67230 / 0.66994	0.69342	0.78834	0.69657	0.72786	0.71462	AVRG		0.70901		5.74420

*All weighted linear are 1/x2

TestAmerica

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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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
6 Thionazin	0.92691	1.04072	1.18135	1.04042	1.06307	1.02466					
	0.94497						AVRG		1.03173		8.11775
8 Ethoprop	42901	78683	117585	231940	339190	456780					
	585549						WLINR	-0.13757	1.09519		0.99708
9 Naled	7830	10270	27100	66048	104633	153119					
	201383						LINR	0.05226	0.38732		0.99488
10 Sulfotepp	28344	72236	147729	278947	391784	536170					
	695274						LINR	-0.11085	1.27752		0.99140
11 Phorate	27735	46032	94044	186434	267547	366311					
	457389						WLINR	-0.08395	0.88336		0.99207
12 Demeton-S	7597	22639	48449	105446	148807	218626					
	292846						WLINR	0.01285	0.82789		0.99843
13 Simazine	+++++	2982	12318	32796	50934	77526					
	107753						LINR	0.16673	0.21257		0.99947

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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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
14 Atrazine / Propazine	11556	30702	66367	137441	207143	307271	WLINR	0.02339	0.38510		0.99771
	421388										
15 Dimethoate	7995	35698	90330	200683	296888	414494	WLINR	0.05731	1.10992		0.99591
	547217										
16 Diazinon	1.00729	1.00825	1.11853	0.99837	0.98565	0.94624	AVRG		0.99043		7.58654
	0.86867										
17 Disulfoton	1.02114	1.01465	1.12139	1.02680	0.98892	0.97618	AVRG		1.00454		7.08869
	0.88268										
18 Methyl Parathion	8492	29837	72062	145647	218781	308584	WLINR	0.05013	1.06463		0.99750
	409367										
19 Ronnel	1.21971	1.18723	1.32067	1.20364	1.28662	1.26207	AVRG		1.24765		3.79673
	1.25358										
20 Malathion	11736	31859	67405	132229	191342	267260	WLINR	0.01703	0.91922		0.99849
	350626										

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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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	5.0000 Level 7											
21 Chlorpyrifos	14294	39270	83511	166943	244884	349915						
	473711						WLINR	0.02320	1.18913		0.99867	
22 Trichloronate	14331	40109	87602	175644	261483	378490						
	516721						WLINR	0.02932	1.27691		0.99766	
23 Parathion	12594	39453	83031	163192	239376	341103						
	432482						WLINR	0.02868	1.16172		0.99848	
24 Fenthion	1.36034	1.46554	1.53969	1.38567	1.43691	1.34213						
	1.31823						AVRG		1.40693		5.55499	
25 Merphos-A (Merphos)	431	+++++	14025	43136	73838	162051						
	228536						LINR	0.37623	0.64894		0.94993	<- NTC
26 Anilazine	550	2028	5957	11478	19918	26232						
	35306						WLINR	0.07521	0.09338		0.99426	
27 Tetrachlorvinphos (stirophos)	8356	22635	50985	110089	164289	242093						
	330886						QUAD	0.05055	1.28376	-0.05352	0.99966	

TestAmerica

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Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	5.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
28 Tokuthion	1.08753	1.10074	1.24220	1.21557	1.27179	1.25077	1.24497	AVRG		1.20194		6.28609
29 Merphos-B (Merphos oxone)	1.22652	1.27415	1.21296	1.07677	1.02350	0.80912	0.76337	AVRG		1.05520		19.32026
30 Carbophenothion methyl	11420	31047	66286	127195	192332	269754	352947	WLINR	0.01951	0.91500		0.99803
31 Fensulfothion	9459	26023	59611	117044	171184	232294	294034	WLINR	0.02472	0.80787		0.99542
32 Bolstar	1.02843	1.03889	1.16718	1.07913	1.10055	1.02961	0.95013	AVRG		1.05627		6.44864
33 Carbophenothion	12072	32880	70538	133833	194237	270609	347667	WLINR	0.01527	0.93342		0.99725
34 Famphur	10333	30107	67281	137487	195770	273389	345194	WLINR	0.02930	0.94099		0.99711

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
36 EPN	0.96427	0.93325	1.08934	0.97332	0.99917	0.94072					
	0.88365						AVRG		0.96910		6.63355
37 Phosmet	0.86015	0.71717	0.90198	0.81421	0.89285	0.88885					
	0.76918						AVRG		0.83491		8.47100
39 Azinphos-methyl	18426	32051	63061	115656	166083	229899					
	301398						WLINR	-0.05641	0.75216		0.99445
40 Azinphos-ethyl	24380	39849	67533	126800	171561	238500					
	301170						WLINR	-0.10839	0.75753		0.99732
41 Coumaphos	20151	38014	63215	114650	160902	222813					
	284996						WLINR	-0.08247	0.72795		0.99879
M 42 Total Demeton	11226	32782	70048	148121	212648	309350					
	412260						WLINR	0.03190	1.04245		0.99868
M 43 Merphos	19148	49545	101511	202373	283468	401105					
	531931						WLINR	0.00943	1.37585		0.99907

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
$ 3 Chlormefos	1.26703	1.14885	1.28773	1.09409	1.10504	1.07530					
	1.00692						AVRG		1.14071		9.00151
$ 35 Triphenyl phosphate	0.75137	0.76053	0.86594	0.79535	0.81821	0.78033					
	0.72786						AVRG		0.78566		5.87332

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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 + ml*Rsp + m2*Rsp^2	Response

Report Date: 30-Sep-2009 08:45

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	
\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\010F1001.D		

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.0000	2.0277	1.4	15.0	
2	Dichlorvos	2.0000	1.8383	8.1	15.0	
3	Mevinphos	2.0000	1.3838	30.8	15.0	<-
4	Chlormefos	2.0000	1.9297	3.5	15.0	
5	Thionazin	2.0000	1.9172	4.1	15.0	
~~6~~	~~Demeton-O~~	~~0.6500~~	~~1.9167~~	~~194.9~~	~~15.0~~	~~<-~~
7	Ethoprop	2.0000	1.9138	4.3	15.0	
8	Naled	2.0000	1.8740	6.3	15.0	
9	Sulfotepp	2.0000	1.7418	12.9	15.0	
10	Phorate	2.0000	1.6291	18.5	15.0	<-
11	Dimethoate	2.0000	1.9574	2.1	15.0	
~~12~~	~~Demeton-S~~	~~1.3600~~	~~0.2011~~	~~85.2~~	~~15.0~~	~~<-~~
13	Simazine	2.0000	1.9396	3.0	15.0	
14	Atrazine	2.0000	1.8345	8.3	15.0	
15	propazine	2.0000	1.8174	9.1	15.0	
17	Disulfoton	2.0000	1.9030	4.9	15.0	
16	Diazinon	2.0000	1.7880	10.6	15.0	
18	Methyl Parathion	2.0000	1.8895	5.5	15.0	
19	Ronnel	2.0000	1.9096	4.5	15.0	
20	Malathion	2.0000	1.7586	12.1	15.0	
21	Fenthion	2.0000	1.7893	10.5	15.0	
22	Parathion	2.0000	1.7858	10.7	15.0	
23	Chlorpyrifos	2.0000	1.8763	6.2	15.0	
24	Trichloronate	2.0000	1.7018	14.9	15.0	
25	Anilazine	2.0000	1.3473	32.6	15.0	<-
148	Merphos-A (Merphos)	2.0000	1.0513	47.4	999.0	
26	Tetrachlorvinphos (Stirophos)	2.0000	1.7078	14.6	15.0	
28	Tokuthion	2.0000	1.8589	7.1	15.0	
149	Merphos-B (Merphos Oxone)	2.0000	2.1683	8.4	999.0	
29	Carbophenothion-methyl	2.0000	1.2396	38.0	15.0	<-
29	Fensulfothion	2.0000	1.7345	13.3	15.0	
30	Bolstar / Famphur	4.0000	3.9661	0.8	15.0	
32	Carbophenothion	2.0000	1.9274	3.6	15.0	
31	Triphenyl phosphate	2.0000	2.0501	2.5	15.0	
34	Phosmet	2.0000	2.0603	3.0	15.0	
32	EPN	2.0000	1.9835	0.8	15.0	
33	Azinphos-methyl	2.0000	1.7690	11.5	15.0	
38	Azinphos-ethyl	2.0000	1.8763	6.2	15.0	
36	Coumaphos	2.0000	1.8522	7.4	15.0	

~~6 Demeton-O~~ — data not available SDW 9/30/09

~~12 Demeton-S~~ — data not available SDW 9/30/09

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1178	5.9	15.0
27 Merphos	2.0000	1.8157	9.2	15.0

Average %D = 16.7

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.0000	2.0546	2.7	15.0	
2	Dichlorvos	2.0000	1.8179	9.1	15.0	
3	Chlormefos	2.0000	1.9854	0.7	15.0	
4	Mevinphos	2.0000	1.5661	21.7	15.0	<-
~~5~~	~~Demeton-O~~	~~0.6500~~	~~2.0374~~	~~213.5~~	~~15.0~~	~~<-~~ data not available DSW 9/30/09
6	Thionazin	2.0000	2.0499	2.5	15.0	
7	Ethoprop	2.0000	1.8574	7.1	15.0	
10	Naled	2.0000	1.7111	14.4	15.0	
145	Sulfotepp	2.0000	1.7465	12.7	15.0	
8	Phorate	2.0000	1.8215	8.9	15.0	
~~15~~	~~Demeton-S~~	~~1.2600~~	~~0.0937~~	~~93.1~~	~~15.0~~	~~<-~~ data not available DSW 9/30/09
10	Simazine	2.0000	2.2211	11.1	15.0	
13	Atrazine / Propazine	4.0000	3.6090	9.8	15.0	
16	Dimethoate	2.0000	1.9112	4.4	15.0	
11	Diazinon	2.0000	1.7312	13.4	15.0	
14	Disulfoton	2.0000	1.8899	5.5	15.0	
23	Methyl Parathion	2.0000	1.8884	5.6	15.0	
17	Ronnel	2.0000	2.0103	0.5	15.0	
24	Malathion	2.0000	1.7017	14.9	15.0	
18	Chlorpyrifos	2.0000	1.8709	6.5	15.0	
20	Trichloronate	2.0000	1.7259	13.7	15.0	
26	Parathion	2.0000	1.9657	1.7	15.0	
19	Fenthion	2.0000	1.9078	4.6	15.0	
151	Merphos-A (Merphos)	2.0000	1.1905	40.5	999.0	
21	Anilazine	2.0000	1.1573	42.1	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.0000	1.7038	14.8	15.0	
25	Tokuthion	2.0000	1.9155	4.2	15.0	
148	Merphos-B (Merphos oxone)	2.0000	2.0651	3.3	999.0	
28	Carbophenothion methyl	2.0000	1.2678	36.6	15.0	<-
30	Fensulfothion	2.0000	1.9488	2.6	15.0	
28	Bolstar	2.0000	2.0207	1.0	15.0	
30	Carbophenothion	2.0000	1.9799	1.0	15.0	
33	Famphur	2.0000	1.9782	1.1	15.0	
29	Triphenyl phosphate	2.0000	2.0893	4.5	15.0	
32	EPN	2.0000	2.0329	1.6	15.0	
34	Phosmet	2.0000	2.0660	3.3	15.0	
34	Azinphos-methyl	2.0000	1.7858	10.7	15.0	
35	Azinphos-ethyl	2.0000	1.9627	1.9	15.0	
36	Coumaphos	2.0000	1.9237	3.8	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1311	6.6	15.0
22 Merphos	2.0000	1.8093	9.5	15.0

Average %D = 16.3

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 o,o,o-TEPT	2.5000	2.3091	7.6	15.0	
2 Dichlorvos	2.5000	2.1896	12.4	15.0	
3 Mevinphos	2.5000	2.1803	12.8	15.0	
4 Chlormefos	2.5000	2.1809	12.8	15.0	
5 Thionazin	2.5000	2.2818	8.7	15.0	
6 Demeton-O	0.8125	0.8212	1.1	15.0	
7 Ethoprop	2.5000	2.4151	3.4	15.0	
8 Naled	2.5000	2.1971	12.1	15.0	
9 Sulfotepp	2.5000	2.2945	8.2	15.0	
10 Phorate	2.5000	2.4837	0.7	15.0	
11 Dimethoate	2.5000	2.2770	8.9	15.0	
12 Demeton-S	1.7000	1.6323	4.0	15.0	
13 Simazine	2.5000	2.3907	4.4	15.0	
14 Atrazine	2.5000	2.3174	7.3	15.0	
15 propazine	2.5000	2.2607	9.6	15.0	
17 Disulfoton	2.5000	2.3894	4.4	15.0	
16 Diazinon	2.5000	2.3977	4.1	15.0	
18 Methyl Parathion	2.5000	2.3054	7.8	15.0	
19 Ronnel	2.5000	2.1990	12.0	15.0	
20 Malathion	2.5000	2.6321	5.3	15.0	
21 Fenthion	2.5000	2.3311	6.8	15.0	
22 Parathion	2.5000	2.3221	7.1	15.0	
23 Chlorpyrifos	2.5000	2.2964	8.1	15.0	
24 Trichloronate	2.5000	2.2911	8.4	15.0	
25 Anilazine	2.5000	1.5327	38.7	15.0	<-
148 Merphos-A (Merphos)	2.5000	2.6681	6.7	999.0	
26 Tetrachlorvinphos (Stirophos)	2.5000	2.2213	11.1	15.0	
28 Tokuthion	2.5000	2.3960	4.2	15.0	
149 Merphos-B (Merphos Oxone)	2.5000	2.2814	8.7	999.0	
29 Carbophenothion-methyl	2.5000	2.3279	6.9	15.0	
29 Fensulfothion	2.5000	2.5396	1.6	15.0	
30 Bolstar / Famphur	5.0000	4.9866	0.3	15.0	
32 Carbophenothion	2.5000	2.3477	6.1	15.0	
31 Triphenyl phosphate	2.5000	2.3618	5.5	15.0	
34 Phosmet	2.5000	2.4522	1.9	15.0	
32 EPN	2.5000	2.5216	0.9	15.0	
33 Azinphos-methyl	2.5000	2.5110	0.4	15.0	
38 Azinphos-ethyl	2.5000	2.4146	3.4	15.0	
36 Coumaphos	2.5000	2.4022	3.9	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4535	1.9	15.0
27 Merphos	2.5000	2.4801	0.8	15.0

Average %D = 6.85

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.5348	1.4	15.0	
2	Dichlorvos	2.5000	2.3710	5.2	15.0	
3	Chlormefos	2.5000	2.3297	6.8	15.0	
4	Mevinphos	2.5000	2.5889	3.6	15.0	
5	Demeton-O	0.8125	0.7797	4.0	15.0	
6	Thionazin	2.5000	2.4427	2.3	15.0	
7	Ethoprop	2.5000	2.1920	12.3	15.0	
10	Naled	2.5000	2.1626	13.5	15.0	
145	Sulfotepp	2.5000	2.4808	0.8	15.0	
8	Phorate	2.5000	2.4124	3.5	15.0	
15	Demeton-S	1.7000	1.5691	7.7	15.0	
10	Simazine	2.5000	2.0616	17.5	15.0	<-
13	Atrazine / Propazine	5.0000	4.5254	9.5	15.0	
16	Dimethoate	2.5000	2.3853	4.6	15.0	
11	Diazinon	2.5000	2.3952	4.2	15.0	
14	Disulfoton	2.5000	2.4544	1.8	15.0	
23	Methyl Parathion	2.5000	2.3407	6.4	15.0	
17	Ronnel	2.5000	2.3916	4.3	15.0	
24	Malathion	2.5000	2.4162	3.4	15.0	
18	Chlorpyrifos	2.5000	2.3054	7.8	15.0	
20	Trichloronate	2.5000	2.2651	9.4	15.0	
26	Parathion	2.5000	2.3586	5.7	15.0	
19	Fenthion	2.5000	2.3981	4.1	15.0	
151	Merphos-A (Merphos)	2.5000	2.2599	9.6	999.0	
21	Anilazine	2.5000	0.3259	87.0	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.5000	2.4125	3.5	15.0	
25	Tokuthion	2.5000	2.4106	3.6	15.0	
148	Merphos-B (Merphos oxone)	2.5000	2.2785	8.9	999.0	
28	Carbophenothion methyl	2.5000	2.4279	2.9	15.0	
30	Fensulfothion	2.5000	2.4677	1.3	15.0	
28	Bolstar	2.5000	2.4824	0.7	15.0	
30	Carbophenothion	2.5000	2.3773	4.9	15.0	
33	Famphur	2.5000	2.4308	2.8	15.0	
29	Triphenyl phosphate	2.5000	2.4082	3.7	15.0	
32	EPN	2.5000	2.4389	2.4	15.0	
34	Phosmet	2.5000	2.5624	2.5	15.0	
34	Azinphos-methyl	2.5000	2.5478	1.9	15.0	
35	Azinphos-ethyl	2.5000	2.4913	0.3	15.0	
36	Coumaphos	2.5000	2.3812	4.8	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.3488	6.0	15.0
22 Merphos	2.5000	2.4773	0.9	15.0

Average %D = 7.01

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.6239	5.0	15.0	
2	Dichlorvos	2.5000	2.6183	4.7	15.0	
3	Mevinphos	2.5000	2.5553	2.2	15.0	
4	Chlormefos	2.5000	2.5178	0.7	15.0	
5	Thionazin	2.5000	2.5324	1.3	15.0	
6	Demeton-O	0.8125	0.8678	6.8	15.0	
7	Ethoprop	2.5000	2.6293	5.2	15.0	
8	Naled	2.5000	2.0694	17.2	15.0	<-
9	Sulfotepp	2.5000	2.5566	2.3	15.0	
10	Phorate	2.5000	2.6975	7.9	15.0	
11	Dimethoate	2.5000	2.5266	1.1	15.0	
12	Demeton-S	1.7000	1.7817	4.8	15.0	
13	Simazine	2.5000	2.4581	1.7	15.0	
14	Atrazine	2.5000	2.4930	0.3	15.0	
15	propazine	2.5000	2.4326	2.7	15.0	
17	Disulfoton	2.5000	2.5643	2.6	15.0	
16	Diazinon	2.5000	2.4103	3.6	15.0	
18	Methyl Parathion	2.5000	2.3991	4.0	15.0	
19	Ronnel	2.5000	2.2540	9.8	15.0	
20	Malathion	2.5000	2.7626	10.5	15.0	
21	Fenthion	2.5000	2.4294	2.8	15.0	
22	Parathion	2.5000	2.4604	1.6	15.0	
23	Chlorpyrifos	2.5000	2.3019	7.9	15.0	
24	Trichloronate	2.5000	2.3516	5.9	15.0	
25	Anilazine	2.5000	1.7328	30.7	15.0	<-
148	Merphos-A (Merphos)	2.5000	3.7211	48.8	999.0	
26	Tetrachlorvinphos (Stirophos)	2.5000	2.3060	7.8	15.0	
28	Tokuthion	2.5000	2.5182	0.7	15.0	
149	Merphos-B (Merphos Oxone)	2.5000	1.8070	27.7	999.0	
29	Carbophenothion-methyl	2.5000	2.4120	3.5	15.0	
29	Fensulfothion	2.5000	2.6715	6.9	15.0	
30	Bolstar / Famphur	5.0000	5.2444	4.9	15.0	
32	Carbophenothion	2.5000	2.6493	6.0	15.0	
31	Triphenyl phosphate	2.5000	2.4960	0.2	15.0	
34	Phosmet	2.5000	2.5909	3.6	15.0	
32	EPN	2.5000	2.6546	6.2	15.0	
33	Azinphos-methyl	2.5000	2.6346	5.4	15.0	
38	Azinphos-ethyl	2.5000	2.5699	2.8	15.0	
36	Coumaphos	2.5000	2.5517	2.1	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.6495	6.0	15.0
27 Merphos	2.5000	2.6112	4.4	15.0

Average %D = 6.84

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.5052	0.2	15.0	
2	Dichlorvos	2.5000	2.6507	6.0	15.0	
3	Chlormefos	2.5000	2.3546	5.8	15.0	
4	Mevinphos	2.5000	2.6421	5.7	15.0	
5	Demeton-O	0.8125	0.8114	0.1	15.0	
6	Thionazin	2.5000	2.4948	0.2	15.0	
7	Ethoprop	2.5000	2.6368	5.5	15.0	
10	Naled	2.5000	2.2433	10.3	15.0	
145	Sulfotepp	2.5000	2.6063	4.3	15.0	
8	Phorate	2.5000	2.7007	8.0	15.0	
15	Demeton-S	1.7000	1.7318	1.9	15.0	
10	Simazine	2.5000	2.1097	15.6	15.0	<-
13	Atrazine / Propazine	5.0000	4.4591	10.8	15.0	
16	Dimethoate	2.5000	2.3550	5.8	15.0	
11	Diazinon	2.5000	2.3304	6.8	15.0	
14	Disulfoton	2.5000	2.4210	3.2	15.0	
23	Methyl Parathion	2.5000	2.4495	2.0	15.0	
17	Ronnel	2.5000	2.4915	0.3	15.0	
24	Malathion	2.5000	2.5012	0.0	15.0	
18	Chlorpyrifos	2.5000	2.3868	4.5	15.0	
20	Trichloronate	2.5000	2.3024	7.9	15.0	
26	Parathion	2.5000	2.5391	1.6	15.0	
19	Fenthion	2.5000	2.5253	1.0	15.0	
151	Merphos-A (Merphos)	2.5000	3.3931	35.7	999.0	
21	Anilazine	2.5000	1.7286	30.9	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.5000	2.4953	0.2	15.0	
25	Tokuthion	2.5000	2.4805	0.8	15.0	
148	Merphos-B (Merphos oxone)	2.5000	1.7590	29.6	999.0	
28	Carbophenothion methyl	2.5000	2.5064	0.3	15.0	
30	Fensulfothion	2.5000	2.4826	0.7	15.0	
28	Bolstar	2.5000	2.4524	1.9	15.0	
30	Carbophenothion	2.5000	2.3705	5.2	15.0	
33	Famphur	2.5000	2.4494	2.0	15.0	
29	Triphenyl phosphate	2.5000	2.5296	1.2	15.0	
32	EPN	2.5000	2.5490	2.0	15.0	
34	Phosmet	2.5000	2.4210	3.2	15.0	
34	Azinphos-methyl	2.5000	2.6560	6.2	15.0	
35	Azinphos-ethyl	2.5000	2.6671	6.7	15.0	
36	Coumaphos	2.5000	2.4212	3.2	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.5432	1.7	15.0
22 Merphos	2.5000	2.6134	4.5	15.0

Average %D = 5.94

Sequence: C:\HPCHEM\2\SEQUENCE\D092909.S

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 GSV1077				
4	Vial 4	8141 L6 GSV1078				
5	Vial 5	8141 L5 GSV1079				
6	Vial 6	8141 L4 GSV1080				
7	Vial 7	8141 L3 GSV1081				
8	Vial 8	8141 L2 GSV1082				
9	Vial 9	8141 L1 GSV1083				
10	Vial 10	8141 SS GSV~~1084~~ 1107				
11	Vial 11	LKXKM1AA,MB				
12	Vial 12	LKXKM1AC,LCS				
13	Vial 13	LKXKM1AD,LCSD				
14	Vial 14	LKVW31A1,125-1				
15	Vial 15	LLF2T1AA,MB				
16	Vial 16	LLF2T1AC,LCS				
17	Vial 17	LK1TV1AC,309-1				
18	Vial 18	LK1TV1AE,309-1S				
19	Vial 19	LK1TV1AF,309-1D				
20	Vial 20	LK1T41AC,309-2				
21	Vial 21	LLF2R1AA,MB				
22	Vial 22	LLF2R1AC,LCS				
23	Vial 23	LK1TV1AD,309-1				
24	Vial 24	LK1TV1AJ,309-1S				
25	Vial 25	LK1TV1AK,309-1D				
26	Vial 26	LK1T41AD,309-2				
27	Vial 27	8141 CCV GSV1085				
28	Vial 28	LK48L1AA,MB				
29	Vial 29	LK48L1AC,LCS				
30	Vial 30	LKV851AA,173-1				
31	Vial 31	LKV9A1AA,173-2				
32	Vial 32	LKV9C1AA,173-3				
33	Vial 33	LK1V21AA,312-1				
34	Vial 34	LK1WH1AA,312-2				
35	Vial 35	LK1WL1AA,312-3				
36	Vial 36	8141 CCV GSV1085				
37	Vial 37	LK32J1AA,225-1				
38	Vial 38	LK32M1AA,225-2				
39	Vial 39	LK32M1AD,225-2S				
40	Vial 40	LK32M1AE,225-2D				
41	Vial 41	LK32W1AA,225-3				
42	Vial 42	8141 CCV GSV1085				
43	Vial 43	8141 L1 GSV1083				
44	Vial 44	LLK3J1AA,MB				
45	Vial 45	LLK3J1AC,LCS				
46	Vial 46	LK51E1AA,182-1				
47	Vial 47	LK51G1AA,182-2				
48	Vial 48	LK51G1AD,182-2S				
49	Vial 49	LK51G1AE,182-2D				
50	Vial 50	LK51H1AA,182-3				
51	Vial 51	LK9DD1AA,250-1				
52	Vial 52	LK9DE1AA,250-2				
53	Vial 53	LK9DM1AA,251-1				
54	Vial 54	8141 CCV GSV1085				
55	Vial 55	LK9DR1AA,251-2				
56	Vial 56	LK9DW1AA,251-3				
57	Vial 57	LK9D21AA,251-4				
58	Vial 58	LLEX71AA,243-1				
59	Vial 59	LLEX91AA,243-2				

Sequence: C:\HPCHEM\2\SEQUENCE\D092909.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	LLE0A1AA,243-3				
61	Vial 61	LLE0D1AA,243-4				
62	Vial 62	LLH341AA,285-1				
63	Vial 63	LLH351AA,285-2				
64	Vial 64	8141 CCV GSV1085				
65	Vial 65	8141 L1 GSV1083				

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\HPCHEM\2\SEQUENCE\D100509.S

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 GSV1085				
4	Vial 4	GSV1114-09 LCS				
5	Vial 5	LLN4X1AA,MB				
6	Vial 6	LLN4X1AC,LCS				
7	Vial 7	LLN4X1AD,LCSD				
8	Vial 8	LLE0E1AA,244-1				
9	Vial 9	LKXKM1AA,MB				
10	Vial 10	LKXKM1AC,LCS				
11	Vial 11	LKXKM1AD,LCSD				
12	Vial 12	LKVW31A1,125-1				
13	Vial 13	LLQ6W1AA,MB				
14	Vial 14	LLQ6W1AC,LCS				
15	Vial 15	LLG321AA,174-1				
16	Vial 16	LLG321AF,174-1S				
17	Vial 17	LLG321AG,174-1D				
18	Vial 18	8141 CCV GSV1085				
19	Vial 19	LLQPL1AA,MB				
20	Vial 20	LLQ971AA,LCS				
21	Vial 21	LLFGF1AA,305-1				
22	Vial 22	LLFGF1AD,305-1S				
23	Vial 23	LLFGF1AE,305-1D				
24	Vial 24	LLFGK1AA,305-2				
25	Vial 25	LLQPN1AA,MB				
26	Vial 26	LLRA31AA,LCS				
27	Vial 27	LLFGF1AC,305-1				
28	Vial 28	LLFGK1AC,305-2				
29	Vial 29	LLFGK1AD,305-2S				
30	Vial 30	LLFGK1AE,305-2D				
31	Vial 31	LLFGK1AD,305-2S				
32	Vial 32	8141 CCV GSV1085				
33	Vial 33	LLVJF1AA,MB				
34	Vial 34	LLVJF1AC,LCS				
35	Vial 35	LLVJF1AD,LCSD				
36	Vial 36	LLQRR1AA,236-1				
37	Vial 37	LLVJ01AA,MB				
38	Vial 38	LLVJ01AC,LCS				
39	Vial 39	LLVJ01AD,LCSD				
40	Vial 40	LLTKN1AA,204-1				
41	Vial 41	LLTKX1AA,210-1				
42	Vial 42	LL01M1AA,MB				
43	Vial 43	LL01M1AC,LCS				
44	Vial 44	LL01M1AD,LCSD				
45	Vial 45	LLXA51AE,256-1				
46	Vial 46	LLX1Q1AA,331-1				
47	Vial 47	LLX1V1AA,331-2				
48	Vial 48	LLX1W1AA,331-3				
49	Vial 49	LLX1X1AA,331-4				
50	Vial 50	LLX101AA,331-5				
51	Vial 51	8141 CCV GSV1085				
52	Vial 52	LLVJT1AA,MB				
53	Vial 53	LLVJT1AC,LCS				
54	Vial 54	LLVJT1AD,LCSD				
55	Vial 55	LK9DD2AA,250-1				
56	Vial 56	LLNL31AA,202-1				
57	Vial 57	LLNL51AA,202-2				
58	Vial 58	LLNL61AA,202-3				
59	Vial 59	LLNL71AA,202-4				

9272488

9259804

9273433

9273443

9273467

9274554

9274555

9277015

9274556

– RR, bad injection?

Sequence: C:\HPCHEM\2\SEQUENCE\D100509.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	8141 CCV GSV1085				

Sequence Table (Back Injector):

No entries - empty table!

TestAmerica

Semivolatile GC

CLP-Like Forms

Lot ID: D9J010210

Client: Northgate/Tronox

Method: SW846 8141A

Associated Samples: 001

Batch: 9274555

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TR-2B
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010210-001
Matrix:	WATER	**Lab WorkOrder:**	LLTKX1AA
% Moisture:	N/A	**Date/Time Collected:**	09/30/09 11:05
Basis:	Wet	**Date/Time Received:**	10/01/09 08:30
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 17:17
Sample Aliquot:	1053 mL	**Instrument ID:**	D
Dilution Factor:	1		

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TR-2B
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010210-001
Matrix:	WATER	**Lab WorkOrder:**	LLTKX1AA
% Moisture:	N/A	**Date/Time Collected:**	09/30/09 11:05
Basis:	Wet	**Date/Time Received:**	10/01/09 08:30
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 17:17
Sample Aliquot:	1053 mL	**Instrument ID:**	D
Dilution Factor:	1		

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	85	60	154	
24934-91-6	Chlormefos	63	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555B
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 14:51
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555B
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 14:51
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	90	60	154	
24934-91-6	Chlormefos	73	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I09P29H
Lot/SDG Number: 8304634 **QC Batch ID:** 9274555

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
TR-4B	LLTKN1AA	78	91							0
TR-2B	LLTKX1AA	63	85							0
INTRA-LAB BLANK	LLVJ01AA	73	90							0
CHECK SAMPLE	LLVJ01AC	109	98							0
DUPLICATE CHECK	LLVJ01AD	108	100							0

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555C
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 15:27
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorvos	4.00	4.04	101		40 - 193
Thionazin	4.00	3.65	91		39 - 180
Dimethoate	4.00	3.03	76		33 - 139
Disulfoton	4.00	3.57	89		44 - 139
EPN	4.00	3.78	94		50 - 150
Ethoprop	4.00	3.71	93		43 - 165
Famphur	8.00	7.79	97		51 - 131
Fensulfothion	4.00	3.54	89		46 - 115
Fenthion	4.00	3.44	86		63 - 128
Malathion	4.00	3.73	93		53 - 137
Merphos	4.00	3.72	93		50 - 150
Methyl parathion	4.00	3.75	94		55 - 131
Azinphos-methyl	4.00	3.55	89		42 - 125
Mevinphos	4.00	2.65	66		39 - 175
Ethyl parathion	4.00	3.39	85		47 - 142
Phorate	4.00	3.00	75		46 - 142
Ronnel	4.00	3.42	86		43 - 115
Sulfotepp	4.00	3.25	81		29 - 166
Trichloronate	4.00	3.18	80		60 - 115
Chlorpyrifos	4.00	3.80	95		60 - 120
Coumaphos	4.00	3.60	90		61 - 115
Diazinon	4.00	3.88	97		47 - 149

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	98	60	154	
24934-91-6	Chlormefos	109	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555L
Matrix:	WATER	**Lab WorkOrder:**	LLVJ01AD
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8141A	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/01/09 20:05
QC Batch ID:	9274555	**Date/Time Analyzed:**	10/06/09 16:04
Sample Aliquot:	1000 mL	**Instrument ID:**	D
Dilution Factor:	1		

Analyte	True	Found	C	% Rec	Q	RPD	Q	QC Limits	
								% Rec	RPD
Dichlorvos	4.00	3.97		99		1.6		40 - 193	49
Thionazin	4.00	3.78		95		3.6		39 - 180	40
Dimethoate	4.00	2.98		75		1.5		33 - 139	50
Disulfoton	4.00	3.59		90		0.44		44 - 139	40
EPN	4.00	4.00		100		5.8		50 - 150	50
Ethoprop	4.00	3.88		97		4.4		43 - 165	36
Famphur	8.00	8.02		100		2.9		51 - 131	88
Fensulfothion	4.00	3.64		91		2.7		46 - 115	62
Fenthion	4.00	3.57		89		3.7		63 - 128	41
Malathion	4.00	3.89		97		4.3		53 - 137	28
Merphos	4.00	3.89		97		4.4		50 - 150	50
Methyl parathion	4.00	3.82		96		2.0		55 - 131	30
Azinphos-methyl	4.00	3.57		89		0.39		42 - 125	36
Mevinphos	4.00	2.64		66		0.41		39 - 175	40
Ethyl parathion	4.00	3.57		89		5.2		47 - 142	40
Phorate	4.00	3.04		76		1.1		46 - 142	40
Ronnel	4.00	3.56		89		3.9		43 - 115	39
Sulfotepp	4.00	3.39		85		4.1		29 - 166	40
Trichloronate	4.00	3.27		82		2.9		60 - 115	38
Chlorpyrifos	4.00	4.02		100		5.6		60 - 120	34
Coumaphos	4.00	3.67		92		2.1		61 - 115	43
Diazinon	4.00	3.91		98		0.59		47 - 149	40

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	100	60	154	
24934-91-6	Chlormefos	108	49	171	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	040F4001.
Lot/SDG Number:	8304634	**Lab Sample ID:**	D9J010000-555B
Matrix:	WATER	**Lab Work Order:**	LLVJ01AA
Analysis Method:	8141A	**Date/Time Extracted:**	10/01/09 20:05
Extraction Method:	I09P29H	**Date/Time Analyzed:**	10/06/09 14:51
QC Batch ID:	9274555	**Instrument ID:**	D

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
TR-4B	LLTKN1AA	040F4001.	10/06/09	16:41
TR-2B	LLTKX1AA	041F4101.	10/06/09	17:17
CHECK SAMPLE	LLVJ01AC C	038F3801.	10/06/09	15:27
DUPLICATE CHECK	LLVJ01AD L	039F3901.	10/06/09	16:04

Report Date : 30-Sep-2009 08:31

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
1 o,o,o-TEPT	1.63582	1.46357	1.69904	1.49231	1.55334	1.44588					
	1.33471						AVRG		1.51781		8.08371
2 Dichlorvos	1.09804	1.00105	1.14275	1.03578	1.13071	1.11714					
	1.09964						AVRG		1.08930		4.76749
3 Mevinphos	5844	34212	104479	248213	402659	602352					
	819859						WLINR	0.08261	0.53929		0.99057
5 Thionazin	26137	125634	280712	563076	833121	1175630					
	1528441						WLINR	0.04498	1.14087		0.99227

*All weighted linear $1/x^2$

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
6 Demeton-O	8888	43142	84853	165026	243630	345285					
	434270						WLINR	0.00318	0.96138		0.99165
7 Ethoprop	39547	126916	278033	553642	815624	1147081					
	1475254						WLINR	0.01618	1.07726		0.99457
8 Naled	5310	29826	78159	178502	292094	423022					
	571005						WLINR	0.07277	0.38445		0.99629
10 Sulfotepp	1.53870	1.45506	1.61167	1.41213	1.42888	1.35179					
	1.25989						AVRG		1.43687		8.06106
11 Phorate	65747	152671	291306	533826	765652	1060353					
	1353850						WLINR	-0.07478	0.92708		0.99400
12 Dimethoate	+++++	80163	226488	510687	808318	1193294					
	1575516						WLINR	0.10278	1.12223		0.99768
13 Demeton-S	38231	82067	162056	321884	469949	664552					
	864178						WLINR	-0.02988	0.86412		0.99734

TestAmerica

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
14 Simazine	+++++	0.37114	0.38516	0.32753	0.33986	0.32914					
	0.30906						AVRG		0.34365		8.39328
15 Atrazine	+++++	0.42071	0.44480	0.40125	0.42142	0.42626					
	0.41891						AVRG		0.42222		3.31561
16 propazine	0.47409	0.45855	0.44433	0.40832	0.42584	0.43090					
	0.41719						AVRG		0.43703		5.34210
17 Disulfoton	20950	82596	206154	430185	637297	902155					
	1174534						WLINR	0.05288	1.26562		0.99670
18 Diazinon	1.88382	1.82569	1.81443	1.58003	1.61382	1.56949					
	1.40473						AVRG		1.67029		10.44280
19 Methyl Parathion	25143	93936	198723	413467	624051	900226					
	1183337						WLINR	0.04024	1.23862		0.99868
20 Ronnel	30043	92833	207764	431001	655015	986468					
	1357486						WLINR	0.03640	1.31799		0.99738

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
21 Malathion	0.73980 / 0.92478	0.86061	1.01096	0.96567	1.01070	0.99917	AVRG		0.93024		10.76267	
22 Fenthion	25618 / 1181597	81008	197350	415453	617147	893955	WLINR	0.04167	1.22010		0.99680	
23 Parathion	+++++ / 1129725	64057	164552	364258	575984	833868	WLINR	0.09794	1.18191		0.99826	
24 Chlorpyrifos	+++++ / 1.57114	2.09077	1.98130	1.64856	1.66053	1.68232	AVRG		1.77243		11.87404	
25 Trichloronate	39953 / 1577851	111835	246154	514604	784208	1161418	WLINR	0.03585	1.57763		0.99851	
26 Anilazine	+++++ / 72734	3022	9122	18930	30638	51752	WLINR	0.13554	0.07134		0.98986	<- r = 0.995
27 Merphos-A (Merphos)	+++++ / 569663	2369	19841	99237	171288	390389	QUAD	0.32491	2.46824	-0.69646	0.98447	<- NTC

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	5.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
28 Tetrachlorvinphos (Stirophos)	17165	56276	132732	293015	464319	712949	992586	QUAD	0.07115	1.11462	-0.05261	0.99826
29 Tokuthion	38426	102445	227163	463539	700700	1022545	1372371	WLINR	0.02104	1.36883		0.99735
30 Merphos-B (Merphos Oxone)	1.18673	1.20397	1.23721	1.04485	1.04018	0.82953	0.69514	AVRG		1.03395		19.75426
31 Carbophenothion-methyl	21792	68129	158754	337052	518631	756521	1019566	WLINR	0.04109	1.01816		0.99674
32 Fensulfothion	20933	74021	170156	382549	574661	828723	1083760	WLINR	0.04849	1.12420		0.99732
33 Bolstar / Famphur	61134	173165	392428	780681	1162399	1654375	2168160	WLINR	0.04532	1.13463		0.99719
34 Carbophenothion	35249	94798	205286	394500	583033	846237	1114078	WLINR	0.01102	1.15013		0.99759

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
36 Phosmet	21966	62864	146573	301111	461134	660771	WLINR	0.03153	0.89522		0.99668
	881528										
37 EPN	34992	94375	194560	394014	584842	822064	WLINR	0.00956	1.12405		0.99820
	1075540										
38 Azinphos-methyl	21324	58851	149459	317670	489484	687141	WLINR	0.03852	0.93412		0.99284
	902800										
40 Azinphos-ethyl	1.10513	1.01592	1.07941	0.96607	1.03338	1.00799	AVRG		1.02035		5.84215
	0.93458										
41 Coumaphos	22677	63688	149836	305626	472023	685194	WLINR	0.03191	0.92139		0.99604
	924152										
M 42 Total Demeton	47119	125209	246909	486910	713579	1009837	WLINR	-0.00080	1.37869		0.99748
	1298448										
M 43 Merphos	40761	109753	230843	474965	693990	992478	WLINR	0.01251	1.34499		0.99803
	1281411										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
$ 4 Chlormefos	1.36448	1.36588	1.62655	1.40439	1.42366	1.38996					
	1.30084						AVRG		1.41082		7.28870
$ 35 Triphenyl phosphate	25377	71967	159284	326923	483386	690215					
	913461						WLINR	0.02309	0.94371		0.99807

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

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

Report Date: 30-Sep-2009 08:31

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\010F1001.D
30-SEP-2009 03:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\027F2701.D

Report Date : 30-Sep-2009 08:45

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D

SEE CALIBRATION HISTORY

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
1 o,o,o-TEPT	1.70944 / 1.40917	1.82270	1.91994	1.64505	1.63242	1.58596	AVRG		1.67495		9.87961
2 Dichlorvos	1.36258 / 1.11164	1.20538	1.26335	1.09465	1.15696	1.15368	AVRG		1.19261		7.88032
4 Mevinphos	0.62406 / 0.67540	0.71021	0.81978	0.72187	0.74254	0.72095	AVRG		0.71640		8.38801
5 Demeton-O	0.67230 / 0.66994	0.69342	0.78834	0.69657	0.72786	0.71462	AVRG		0.70901		5.74420

*All weighted linear are 1/x2

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
6 Thionazin	0.92691	1.04072	1.18135	1.04042	1.06307	1.02466	AVRG		1.03173		8.11775
	0.94497										
8 Ethoprop	42901	78683	117585	231940	339190	456780	WLINR	-0.13757	1.09519		0.99708
	585549										
9 Naled	7830	10270	27100	66048	104633	153119	LINR	0.05226	0.38732		0.99488
	201383										
10 Sulfotepp	28344	72236	147729	278947	391784	536170	LINR	-0.11085	1.27752		0.99140
	695274										
11 Phorate	27735	46032	94044	186434	267547	366311	WLINR	-0.08395	0.88336		0.99207
	457389										
12 Demeton-S	7597	22639	48449	105446	148807	218626	WLINR	0.01285	0.82789		0.99843
	292846										
13 Simazine	+++++	2982	12318	32796	50934	77526	LINR	0.16673	0.21257		0.99947
	107753										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	5.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
14 Atrazine / Propazine	11556	30702	66367	137441	207143	307271	421388	WLINR	0.02339	0.38510		0.99771
15 Dimethoate	7995	35698	90330	200683	296888	414494	547217	WLINR	0.05731	1.10992		0.99591
16 Diazinon	1.00729	1.00825	1.11853	0.99837	0.98565	0.94624	0.86867	AVRG		0.99043		7.58654
17 Disulfoton	1.02114	1.01465	1.12139	1.02680	0.98892	0.97618	0.88268	AVRG		1.00454		7.08869
18 Methyl Parathion	8492	29837	72062	145647	218781	308584	409367	WLINR	0.05013	1.06463		0.99750
19 Ronnel	1.21971	1.18723	1.32067	1.20364	1.28662	1.26207	1.25358	AVRG		1.24765		3.79673
20 Malathion	11736	31859	67405	132229	191342	267260	350626	WLINR	0.01703	0.91922		0.99849

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 GC_D.i

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
21 Chlorpyrifos	14294 / 473711	39270	83511	166943	244884	349915	WLINR	0.02320	1.18913		0.99867	
22 Trichloronate	14331 / 516721	40109	87602	175644	261483	378490	WLINR	0.02932	1.27691		0.99766	
23 Parathion	12594 / 432482	39453	83031	163192	239376	341103	WLINR	0.02868	1.16172		0.99848	
24 Fenthion	1.36034 / 1.31823	1.46554	1.53969	1.38567	1.43691	1.34213	AVRG		1.40693		5.55499	
25 Merphos-A (Merphos)	431 / 228536	+++++	14025	43136	73838	162051	LINR	0.37623	0.64894		0.94993	<- NTC
26 Anilazine	550 / 35306	2028	5957	11478	19918	26232	WLINR	0.07521	0.09338		0.99426	
27 Tetrachlorvinphos (stirophos)	8356 / 330886	22635	50985	110089	164289	242093	QUAD	0.05055	1.28376	-0.05352	0.99966	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
28 Tokuthion	1.08753	1.10074	1.24220	1.21557	1.27179	1.25077	AVRG		1.20194		6.28609
	1.24497										
29 Merphos-B (Merphos oxone)	1.22652	1.27415	1.21296	1.07677	1.02350	0.80912	AVRG		1.05520		19.32026
	0.76337										
30 Carbophenothion methyl	11420	31047	66286	127195	192332	269754	WLINR	0.01951	0.91500		0.99803
	352947										
31 Fensulfothion	9459	26023	59611	117044	171184	232294	WLINR	0.02472	0.80787		0.99542
	294034										
32 Bolstar	1.02843	1.03889	1.16718	1.07913	1.10055	1.02961	AVRG		1.05627		6.44864
	0.95013										
33 Carbophenothion	12072	32880	70538	133833	194237	270609	WLINR	0.01527	0.93342		0.99725
	347667										
34 Famphur	10333	30107	67281	137487	195770	273389	WLINR	0.02930	0.94099		0.99711
	345194										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 GC_D.i

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
36 EPN	0.96427 / 0.88365	0.93325	1.08934	0.97332	0.99917	0.94072	AVRG		0.96910		6.63355
37 Phosmet	0.86015 / 0.76918	0.71717	0.90198	0.81421	0.89285	0.88885	AVRG		0.83491		8.47100
39 Azinphos-methyl	18426 / 301398	32051	63061	115656	166083	229899	WLINR	-0.05641	0.75216		0.99445
40 Azinphos-ethyl	24380 / 301170	39849	67533	126800	171561	238500	WLINR	-0.10839	0.75753		0.99732
41 Coumaphos	20151 / 284996	38014	63215	114650	160902	222813	WLINR	-0.08247	0.72795		0.99879
M 42 Total Demeton	11226 / 412260	32782	70048	148121	212648	309350	WLINR	0.03190	1.04245		0.99868
M 43 Merphos	19148 / 531931	49545	101511	202373	283468	401105	WLINR	0.00943	1.37585		0.99907

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 GC_D.i

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
$ 3 Chlormefos	1.26703 / 1.00692	1.14885	1.28773	1.09409	1.10504	1.07530	AVRG		1.14071		9.00151
$ 35 Triphenyl phosphate	0.75137 / 0.72786	0.76053	0.86594	0.79535	0.81821	0.78033	AVRG		0.78566		5.87332

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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: 30-Sep-2009 08:45

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	
\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\010F1001.D		

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.0000	2.0277	1.4	15.0	
2	Dichlorvos	2.0000	1.8383	8.1	15.0	
3	Mevinphos	2.0000	1.3838	30.8	15.0	<-
4	Chlormefos	2.0000	1.9297	3.5	15.0	
5	Thionazin	2.0000	1.9172	4.1	15.0	
~~6~~	~~Demeton-O~~	~~0.6500~~	~~1.9167~~	~~194.9~~	~~15.0~~	~~<-~~
7	Ethoprop	2.0000	1.9138	4.3	15.0	
8	Naled	2.0000	1.8740	6.3	15.0	
9	Sulfotepp	2.0000	1.7418	12.9	15.0	
10	Phorate	2.0000	1.6291	18.5	15.0	<-
11	Dimethoate	2.0000	1.9574	2.1	15.0	
~~12~~	~~Demeton-S~~	~~1.3600~~	~~0.2011~~	~~85.2~~	~~15.0~~	~~<-~~
13	Simazine	2.0000	1.9396	3.0	15.0	
14	Atrazine	2.0000	1.8345	8.3	15.0	
15	propazine	2.0000	1.8174	9.1	15.0	
17	Disulfoton	2.0000	1.9030	4.9	15.0	
16	Diazinon	2.0000	1.7880	10.6	15.0	
18	Methyl Parathion	2.0000	1.8895	5.5	15.0	
19	Ronnel	2.0000	1.9096	4.5	15.0	
20	Malathion	2.0000	1.7586	12.1	15.0	
21	Fenthion	2.0000	1.7893	10.5	15.0	
22	Parathion	2.0000	1.7858	10.7	15.0	
23	Chlorpyrifos	2.0000	1.8763	6.2	15.0	
24	Trichloronate	2.0000	1.7018	14.9	15.0	
25	Anilazine	2.0000	1.3473	32.6	15.0	<-
148	Merphos-A (Merphos)	2.0000	1.0513	47.4	999.0	
26	Tetrachlorvinphos (Stirophos)	2.0000	1.7078	14.6	15.0	
28	Tokuthion	2.0000	1.8589	7.1	15.0	
149	Merphos-B (Merphos Oxone)	2.0000	2.1683	8.4	999.0	
29	Carbophenothion-methyl	2.0000	1.2396	38.0	15.0	<-
29	Fensulfothion	2.0000	1.7345	13.3	15.0	
30	Bolstar / Famphur	4.0000	3.9661	0.8	15.0	
32	Carbophenothion	2.0000	1.9274	3.6	15.0	
31	Triphenyl phosphate	2.0000	2.0501	2.5	15.0	
34	Phosmet	2.0000	2.0603	3.0	15.0	
32	EPN	2.0000	1.9835	0.8	15.0	
33	Azinphos-methyl	2.0000	1.7690	11.5	15.0	
38	Azinphos-ethyl	2.0000	1.8763	6.2	15.0	
36	Coumaphos	2.0000	1.8522	7.4	15.0	

data not available DJW 9/30/09

data not available DJW 9/30/09

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1178	5.9	15.0
27 Merphos	2.0000	1.8157	9.2	15.0

Average %D = 16.7

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 o,o,o-TEPT	2.0000	2.0546	2.7	15.0	
2 Dichlorvos	2.0000	1.8179	9.1	15.0	
3 Chlormefos	2.0000	1.9854	0.7	15.0	
4 Mevinphos	2.0000	1.5661	21.7	15.0	<-
~~5 Demeton-O~~	~~0.6500~~	~~2.0374~~	~~213.5~~	~~15.0~~	~~<-~~ data not available DRW 9/30/09
6 Thionazin	2.0000	2.0499	2.5	15.0	
7 Ethoprop	2.0000	1.8574	7.1	15.0	
10 Naled	2.0000	1.7111	14.4	15.0	
145 Sulfotepp	2.0000	1.7465	12.7	15.0	
8 Phorate	2.0000	1.8215	8.9	15.0	
~~15 Demeton-S~~	~~1.3600~~	~~0.0937~~	~~93.1~~	~~15.0~~	~~<-~~ data not available DRW 9/30/09
10 Simazine	2.0000	2.2211	11.1	15.0	
13 Atrazine / Propazine	4.0000	3.6090	9.8	15.0	
16 Dimethoate	2.0000	1.9112	4.4	15.0	
11 Diazinon	2.0000	1.7312	13.4	15.0	
14 Disulfoton	2.0000	1.8899	5.5	15.0	
23 Methyl Parathion	2.0000	1.8884	5.6	15.0	
17 Ronnel	2.0000	2.0103	0.5	15.0	
24 Malathion	2.0000	1.7017	14.9	15.0	
18 Chlorpyrifos	2.0000	1.8709	6.5	15.0	
20 Trichloronate	2.0000	1.7259	13.7	15.0	
26 Parathion	2.0000	1.9657	1.7	15.0	
19 Fenthion	2.0000	1.9078	4.6	15.0	
151 Merphos-A (Merphos)	2.0000	1.1905	40.5	999.0	
21 Anilazine	2.0000	1.1573	42.1	15.0	<-
27 Tetrachlorvinphos (stirophos)	2.0000	1.7038	14.8	15.0	
25 Tokuthion	2.0000	1.9155	4.2	15.0	
148 Merphos-B (Merphos oxone)	2.0000	2.0651	3.3	999.0	
28 Carbophenothion methyl	2.0000	1.2678	36.6	15.0	<-
30 Fensulfothion	2.0000	1.9488	2.6	15.0	
28 Bolstar	2.0000	2.0207	1.0	15.0	
30 Carbophenothion	2.0000	1.9799	1.0	15.0	
33 Famphur	2.0000	1.9782	1.1	15.0	
29 Triphenyl phosphate	2.0000	2.0893	4.5	15.0	
32 EPN	2.0000	2.0329	1.6	15.0	
34 Phosmet	2.0000	2.0660	3.3	15.0	
34 Azinphos-methyl	2.0000	1.7858	10.7	15.0	
35 Azinphos-ethyl	2.0000	1.9627	1.9	15.0	
36 Coumaphos	2.0000	1.9237	3.8	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1311	6.6	15.0
22 Merphos	2.0000	1.8093	9.5	15.0

Average %D = 16.3

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.3091	7.6	15.0	
2	Dichlorvos	2.5000	2.1896	12.4	15.0	
3	Mevinphos	2.5000	2.1803	12.8	15.0	
4	Chlormefos	2.5000	2.1809	12.8	15.0	
5	Thionazin	2.5000	2.2818	8.7	15.0	
6	Demeton-O	0.8125	0.8212	1.1	15.0	
7	Ethoprop	2.5000	2.4151	3.4	15.0	
8	Naled	2.5000	2.1971	12.1	15.0	
9	Sulfotepp	2.5000	2.2945	8.2	15.0	
10	Phorate	2.5000	2.4837	0.7	15.0	
11	Dimethoate	2.5000	2.2770	8.9	15.0	
12	Demeton-S	1.7000	1.6323	4.0	15.0	
13	Simazine	2.5000	2.3907	4.4	15.0	
14	Atrazine	2.5000	2.3174	7.3	15.0	
15	propazine	2.5000	2.2607	9.6	15.0	
17	Disulfoton	2.5000	2.3894	4.4	15.0	
16	Diazinon	2.5000	2.3977	4.1	15.0	
18	Methyl Parathion	2.5000	2.3054	7.8	15.0	
19	Ronnel	2.5000	2.1990	12.0	15.0	
20	Malathion	2.5000	2.6321	5.3	15.0	
21	Fenthion	2.5000	2.3311	6.8	15.0	
22	Parathion	2.5000	2.3221	7.1	15.0	
23	Chlorpyrifos	2.5000	2.2964	8.1	15.0	
24	Trichloronate	2.5000	2.2911	8.4	15.0	
25	Anilazine	2.5000	1.5327	38.7	15.0	<-
148	Merphos-A (Merphos)	2.5000	2.6681	6.7	999.0	
26	Tetrachlorvinphos (Stirophos)	2.5000	2.2213	11.1	15.0	
28	Tokuthion	2.5000	2.3960	4.2	15.0	
149	Merphos-B (Merphos Oxone)	2.5000	2.2814	8.7	999.0	
29	Carbophenothion-methyl	2.5000	2.3279	6.9	15.0	
29	Fensulfothion	2.5000	2.5396	1.6	15.0	
30	Bolstar / Famphur	5.0000	4.9866	0.3	15.0	
32	Carbophenothion	2.5000	2.3477	6.1	15.0	
31	Triphenyl phosphate	2.5000	2.3618	5.5	15.0	
34	Phosmet	2.5000	2.4522	1.9	15.0	
32	EPN	2.5000	2.5216	0.9	15.0	
33	Azinphos-methyl	2.5000	2.5110	0.4	15.0	
38	Azinphos-ethyl	2.5000	2.4146	3.4	15.0	
36	Coumaphos	2.5000	2.4022	3.9	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4535	1.9	15.0
27 Merphos	2.5000	2.4801	0.8	15.0

Average %D = 6.85

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.5348	1.4	15.0	
2	Dichlorvos	2.5000	2.3710	5.2	15.0	
3	Chlormefos	2.5000	2.3297	6.8	15.0	
4	Mevinphos	2.5000	2.5889	3.6	15.0	
5	Demeton-O	0.8125	0.7797	4.0	15.0	
6	Thionazin	2.5000	2.4427	2.3	15.0	
7	Ethoprop	2.5000	2.1920	12.3	15.0	
10	Naled	2.5000	2.1626	13.5	15.0	
145	Sulfotepp	2.5000	2.4808	0.8	15.0	
8	Phorate	2.5000	2.4124	3.5	15.0	
15	Demeton-S	1.7000	1.5691	7.7	15.0	
10	Simazine	2.5000	2.0616	17.5	15.0	<-
13	Atrazine / Propazine	5.0000	4.5254	9.5	15.0	
16	Dimethoate	2.5000	2.3853	4.6	15.0	
11	Diazinon	2.5000	2.3952	4.2	15.0	
14	Disulfoton	2.5000	2.4544	1.8	15.0	
23	Methyl Parathion	2.5000	2.3407	6.4	15.0	
17	Ronnel	2.5000	2.3916	4.3	15.0	
24	Malathion	2.5000	2.4162	3.4	15.0	
18	Chlorpyrifos	2.5000	2.3054	7.8	15.0	
20	Trichloronate	2.5000	2.2651	9.4	15.0	
26	Parathion	2.5000	2.3586	5.7	15.0	
19	Fenthion	2.5000	2.3981	4.1	15.0	
151	Merphos-A (Merphos)	2.5000	2.2599	9.6	999.0	
21	Anilazine	2.5000	0.3259	87.0	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.5000	2.4125	3.5	15.0	
25	Tokuthion	2.5000	2.4106	3.6	15.0	
148	Merphos-B (Merphos oxone)	2.5000	2.2785	8.9	999.0	
28	Carbophenothion methyl	2.5000	2.4279	2.9	15.0	
30	Fensulfothion	2.5000	2.4677	1.3	15.0	
28	Bolstar	2.5000	2.4824	0.7	15.0	
30	Carbophenothion	2.5000	2.3773	4.9	15.0	
33	Famphur	2.5000	2.4308	2.8	15.0	
29	Triphenyl phosphate	2.5000	2.4082	3.7	15.0	
32	EPN	2.5000	2.4389	2.4	15.0	
34	Phosmet	2.5000	2.5624	2.5	15.0	
34	Azinphos-methyl	2.5000	2.5478	1.9	15.0	
35	Azinphos-ethyl	2.5000	2.4913	0.3	15.0	
36	Coumaphos	2.5000	2.3812	4.8	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.3488	6.0	15.0
22 Merphos	2.5000	2.4773	0.9	15.0

Average %D = 7.01

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.6239	5.0	15.0	
2	Dichlorvos	2.5000	2.6183	4.7	15.0	
3	Mevinphos	2.5000	2.5553	2.2	15.0	
4	Chlormefos	2.5000	2.5178	0.7	15.0	
5	Thionazin	2.5000	2.5324	1.3	15.0	
6	Demeton-O	0.8125	0.8678	6.8	15.0	
7	Ethoprop	2.5000	2.6293	5.2	15.0	
8	Naled	2.5000	2.0694	17.2	15.0	<-
9	Sulfotepp	2.5000	2.5566	2.3	15.0	
10	Phorate	2.5000	2.6975	7.9	15.0	
11	Dimethoate	2.5000	2.5266	1.1	15.0	
12	Demeton-S	1.7000	1.7817	4.8	15.0	
13	Simazine	2.5000	2.4581	1.7	15.0	
14	Atrazine	2.5000	2.4930	0.3	15.0	
15	propazine	2.5000	2.4326	2.7	15.0	
17	Disulfoton	2.5000	2.5643	2.6	15.0	
16	Diazinon	2.5000	2.4103	3.6	15.0	
18	Methyl Parathion	2.5000	2.3991	4.0	15.0	
19	Ronnel	2.5000	2.2540	9.8	15.0	
20	Malathion	2.5000	2.7626	10.5	15.0	
21	Fenthion	2.5000	2.4294	2.8	15.0	
22	Parathion	2.5000	2.4604	1.6	15.0	
23	Chlorpyrifos	2.5000	2.3019	7.9	15.0	
24	Trichloronate	2.5000	2.3516	5.9	15.0	
25	Anilazine	2.5000	1.7328	30.7	15.0	<-
148	Merphos-A (Merphos)	2.5000	3.7211	48.8	999.0	
26	Tetrachlorvinphos (Stirophos)	2.5000	2.3060	7.8	15.0	
28	Tokuthion	2.5000	2.5182	0.7	15.0	
149	Merphos-B (Merphos Oxone)	2.5000	1.8070	27.7	999.0	
29	Carbophenothion-methyl	2.5000	2.4120	3.5	15.0	
29	Fensulfothion	2.5000	2.6715	6.9	15.0	
30	Bolstar / Famphur	5.0000	5.2444	4.9	15.0	
32	Carbophenothion	2.5000	2.6493	6.0	15.0	
31	Triphenyl phosphate	2.5000	2.4960	0.2	15.0	
34	Phosmet	2.5000	2.5909	3.6	15.0	
32	EPN	2.5000	2.6546	6.2	15.0	
33	Azinphos-methyl	2.5000	2.6346	5.4	15.0	
38	Azinphos-ethyl	2.5000	2.5699	2.8	15.0	
36	Coumaphos	2.5000	2.5517	2.1	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.6495	6.0	15.0
27 Merphos	2.5000	2.6112	4.4	15.0

Average %D = 6.84

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.5052	0.2	15.0	
2	Dichlorvos	2.5000	2.6507	6.0	15.0	
3	Chlormefos	2.5000	2.3546	5.8	15.0	
4	Mevinphos	2.5000	2.6421	5.7	15.0	
5	Demeton-O	0.8125	0.8114	0.1	15.0	
6	Thionazin	2.5000	2.4948	0.2	15.0	
7	Ethoprop	2.5000	2.6368	5.5	15.0	
10	Naled	2.5000	2.2433	10.3	15.0	
145	Sulfotepp	2.5000	2.6063	4.3	15.0	
8	Phorate	2.5000	2.7007	8.0	15.0	
15	Demeton-S	1.7000	1.7318	1.9	15.0	
10	Simazine	2.5000	2.1097	15.6	15.0	<-
13	Atrazine / Propazine	5.0000	4.4591	10.8	15.0	
16	Dimethoate	2.5000	2.3550	5.8	15.0	
11	Diazinon	2.5000	2.3304	6.8	15.0	
14	Disulfoton	2.5000	2.4210	3.2	15.0	
23	Methyl Parathion	2.5000	2.4495	2.0	15.0	
17	Ronnel	2.5000	2.4915	0.3	15.0	
24	Malathion	2.5000	2.5012	0.0	15.0	
18	Chlorpyrifos	2.5000	2.3868	4.5	15.0	
20	Trichloronate	2.5000	2.3024	7.9	15.0	
26	Parathion	2.5000	2.5391	1.6	15.0	
19	Fenthion	2.5000	2.5253	1.0	15.0	
151	Merphos-A (Merphos)	2.5000	3.3931	35.7	999.0	
21	Anilazine	2.5000	1.7286	30.9	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.5000	2.4953	0.2	15.0	
25	Tokuthion	2.5000	2.4805	0.8	15.0	
148	Merphos-B (Merphos oxone)	2.5000	1.7590	29.6	999.0	
28	Carbophenothion methyl	2.5000	2.5064	0.3	15.0	
30	Fensulfothion	2.5000	2.4826	0.7	15.0	
28	Bolstar	2.5000	2.4524	1.9	15.0	
30	Carbophenothion	2.5000	2.3705	5.2	15.0	
33	Famphur	2.5000	2.4494	2.0	15.0	
29	Triphenyl phosphate	2.5000	2.5296	1.2	15.0	
32	EPN	2.5000	2.5490	2.0	15.0	
34	Phosmet	2.5000	2.4210	3.2	15.0	
34	Azinphos-methyl	2.5000	2.6560	6.2	15.0	
35	Azinphos-ethyl	2.5000	2.6671	6.7	15.0	
36	Coumaphos	2.5000	2.4212	3.2	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\100

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.5432	1.7	15.0
22 Merphos	2.5000	2.6134	4.5	15.0

Average %D = 5.94

Sequence: C:\HPCHEM\2\SEQUENCE\D092909.S

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 GSV1077				
4	Vial 4	8141 L6 GSV1078				
5	Vial 5	8141 L5 GSV1079				
6	Vial 6	8141 L4 GSV1080				
7	Vial 7	8141 L3 GSV1081				
8	Vial 8	8141 L2 GSV1082				
9	Vial 9	8141 L1 GSV1083				
10	Vial 10	8141 SS GSV~~1084~~ 1107				
11	Vial 11	LKXKM1AA,MB				
12	Vial 12	LKXKM1AC,LCS				
13	Vial 13	LKXKM1AD,LCSD				
14	Vial 14	LKVW31A1,125-1				
15	Vial 15	LLF2T1AA,MB				
16	Vial 16	LLF2T1AC,LCS				
17	Vial 17	LK1TV1AC,309-1				
18	Vial 18	LK1TV1AE,309-1S				
19	Vial 19	LK1TV1AF,309-1D				
20	Vial 20	LK1T41AC,309-2				
21	Vial 21	LLF2R1AA,MB				
22	Vial 22	LLF2R1AC,LCS				
23	Vial 23	LK1TV1AD,309-1				
24	Vial 24	LK1TV1AJ,309-1S				
25	Vial 25	LK1TV1AK,309-1D				
26	Vial 26	LK1T41AD,309-2				
27	Vial 27	8141 CCV GSV1085				
28	Vial 28	LK48L1AA,MB				
29	Vial 29	LK48L1AC,LCS				
30	Vial 30	LKV851AA,173-1				
31	Vial 31	LKV9A1AA,173-2				
32	Vial 32	LKV9C1AA,173-3				
33	Vial 33	LK1V21AA,312-1				
34	Vial 34	LK1WH1AA,312-2				
35	Vial 35	LK1WL1AA,312-3				
36	Vial 36	8141 CCV GSV1085				
37	Vial 37	LK32J1AA,225-1				
38	Vial 38	LK32M1AA,225-2				
39	Vial 39	LK32M1AD,225-2S				
40	Vial 40	LK32M1AE,225-2D				
41	Vial 41	LK32W1AA,225-3				
42	Vial 42	8141 CCV GSV1085				
43	Vial 43	8141 L1 GSV1083				
44	Vial 44	LLK3J1AA,MB				
45	Vial 45	LLK3J1AC,LCS				
46	Vial 46	LK51E1AA,182-1				
47	Vial 47	LK51G1AA,182-2				
48	Vial 48	LK51G1AD,182-2S				
49	Vial 49	LK51G1AE,182-2D				
50	Vial 50	LK51H1AA,182-3				
51	Vial 51	LK9DD1AA,250-1				
52	Vial 52	LK9DE1AA,250-2				
53	Vial 53	LK9DM1AA,251-1				
54	Vial 54	8141 CCV GSV1085				
55	Vial 55	LK9DR1AA,251-2				
56	Vial 56	LK9DW1AA,251-3				
57	Vial 57	LK9D21AA,251-4				
58	Vial 58	LLEX71AA,243-1				
59	Vial 59	LLEX91AA,243-2				

1259504

1269577

1269596

9262069

12700624

Sequence: C:\HPCHEM\2\SEQUENCE\D092909.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	LLE0A1AA,243-3				
61	Vial 61	LLE0D1AA,243-4				
62	Vial 62	LLH341AA,285-1				
63	Vial 63	LLH351AA,285-2				
64	Vial 64	8141 CCV GSV1085				
65	Vial 65	8141 L1 GSV1083				

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\HPCHEM\2\SEQUENCE\D100509.S

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 GSV1085					
4	Vial 4	GSV1114-09 LCS					
5	Vial 5	LLN4X1AA,MB					9272488
6	Vial 6	LLN4X1AC,LCS					
7	Vial 7	LLN4X1AD,LCSD					
8	Vial 8	LLE0E1AA,244-1					
9	Vial 9	LKXKM1AA,MB					9259504
10	Vial 10	LKXKM1AC,LCS					
11	Vial 11	LKXKM1AD,LCSD					
12	Vial 12	LKVW31A1,125-1					
13	Vial 13	LLQ6W1AA,MB					9273433
14	Vial 14	LLQ6W1AC,LCS					
15	Vial 15	LLG321AA,174-1					
16	Vial 16	LLG321AF,174-1S					
17	Vial 17	LLG321AG,174-1D					
18	Vial 18	8141 CCV GSV1085					
19	Vial 19	LLQPL1AA,MB					9273443
20	Vial 20	LLQ971AA,LCS					
21	Vial 21	LLFGF1AA,305-1					
22	Vial 22	LLFGF1AD,305-1S					
23	Vial 23	LLFGF1AE,305-1D					
24	Vial 24	LLFGK1AA,305-2					
25	Vial 25	LLQPN1AA,MB					9273467
26	Vial 26	LLRA31AA,LCS					
27	Vial 27	LLFGF1AC,305-1					
28	Vial 28	LLFGK1AC,305-2					
29	Vial 29	LLFGK1AD,305-2S – RR, bad injection?					
30	Vial 30	LLFGK1AE,305-2D					
31	Vial 31	LLFGK1AD,305-2S					
32	Vial 32	8141 CCV GSV1085					
33	Vial 33	LLVJF1AA,MB					9274554
34	Vial 34	LLVJF1AC,LCS					
35	Vial 35	LLVJF1AD,LCSD					
36	Vial 36	LLQRR1AA,236-1					
37	Vial 37	LLVJ01AA,MB					9274555
38	Vial 38	LLVJ01AC,LCS					
39	Vial 39	LLVJ01AD,LCSD					
40	Vial 40	LLTKN1AA,204-1					
41	Vial 41	LLTKX1AA,210-1					
42	Vial 42	LL01M1AA,MB					9277015
43	Vial 43	LL01M1AC,LCS					
44	Vial 44	LL01M1AD,LCSD					
45	Vial 45	LLXA51AE,256-1					
46	Vial 46	LLX1Q1AA,331-1					
47	Vial 47	LLX1V1AA,331-2					
48	Vial 48	LLX1W1AA,331-3					
49	Vial 49	LLX1X1AA,331-4					
50	Vial 50	LLX101AA,331-5					
51	Vial 51	8141 CCV GSV1085					
52	Vial 52	LLVJT1AA,MB					9274556
53	Vial 53	LLVJT1AC,LCS					
54	Vial 54	LLVJT1AD,LCSD					
55	Vial 55	LK9DD2AA,250-1					
56	Vial 56	LLNL31AA,202-1					
57	Vial 57	LLNL51AA,202-2					
58	Vial 58	LLNL61AA,202-3					
59	Vial 59	LLNL71AA,202-4					

Sequence: C:\HPCHEM\2\SEQUENCE\D100509.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	8141 CCV GSV1085				

Sequence Table (Back Injector):

No entries - empty table!

TestAmerica

Total Metals

CLP-Like Forms

Lot ID: D9J030137

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Samples: 001

TestAmerica

Total Metals Analysis

COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: Northgate Environmental Management, Inc. SDG No.: D9J030137

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

SOW No.: _____

Sample ID.	Lab Sample No.
PB100209	D9J030137-001
PB100209 MS	D9J030137-001S
PB100209 MSD	D9J030137-001SD

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments:

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

Signature: Janice Collins Name: Janice Collins

Date: 10/15/09 Title: Metals Analyst

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PB100209
Lot/SDG Number:	D9J030137	**Lab Sample ID:**	D9J030137-001
Matrix:	WATER	**Lab WorkOrder:**	LL0FG
% Moisture:	N/A	**Date/Time Collected:**	10/02/09 11:11
Basis:	Wet	**Date/Time Received:**	10/03/09 09:00
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:35
Sample Aliquot:	50 mL	**Instrument ID:**	024
Dilution Factor:	1		

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.: D9J030137

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	39.8	99.5	50.0	49.7	99.4	50.1	100.2	M
Selenium	40.0	40.3	100.8	50.0	49.4	98.8	51.3	102.6	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.: D9J030137

Initial Calibration Source: High Purity

Continuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				50.0	50.3	100.6	51.5	103.0	M
Selenium				50.0	49.1	98.2	52.9	105.8	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.: D9J030137

Initial Calibration Source: High Purity

Continuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				50.0	50.0	100.0	49.9	99.8	M
Selenium				50.0	48.8	97.6	48.5	97.0	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.: D9J030137

Initial Calibration Source: High Purity

Continuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				50.0	49.9	99.8			M
Selenium				50.0	49.8	99.6			M

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

TestAmerica

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

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9J030137

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.00	1.002	100.2		
Selenium				1.00	1.181	118.1		

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9J030137	**Lab Sample ID:**	D9J050000-251B
Matrix:	WATER	**Lab WorkOrder:**	LL1J7
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:29
Sample Aliquot:	50 mL	**Instrument ID:**	024
Dilution Factor:	1		

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

TestAmerica

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

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

Comments:

TestAmerica

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

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

Comments:

TestAmerica

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

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

Comments:

Total Metals Analvsis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

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	0.37	101.50	101.5	0.56	100.20	100.2
Selenium	0.0	100.0	0.39	107.70	107.7	0.41	104.70	104.7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PB100209
Lot/SDG Number:	D9J030137	**MS Lab Sample ID:**	D9J030137-001S
Matrix:	WATER	**MS Lab WorkOrder:**	LL0FG
% Moisture:	N/A	**Date/Time Collected:**	10/02/09 11:11
Basis:	Wet	**Date/Time Received:**	10/03/09 09:00
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:44
MS Sample Aliquot:	50 mL	**Instrument ID:**	024
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	0.21	U	38.7		97		85 - 117
Selenium	40.0	0.70	U	40.1		100		77 - 122

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PB100209
Lot/SDG Number:	D9J030137	**MSD Lab Sample ID:**	D9J030137-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	LL0FG
% Moisture:	N/A	**Date/Time Collected:**	10/02/09 11:11
Basis:	Wet	**Date/Time Received:**	10/03/09 09:00
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:47
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	0.21	U	37.2		93		4.0		85 - 117	20
Selenium	40.0	0.70	U	36.4		91		9.8		77 - 122	20

Total Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.: PB100209 PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

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	187.000		0.210	U	200.00	93.5		M
Selenium	75 - 125	184.200		0.700	U	200.00	92.1		M

Comments: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9J030137	**Lab Sample ID:**	D9J050000-251C
Matrix:	WATER	**Lab WorkOrder:**	LL1J7
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:32
Sample Aliquot:	50 mL	**Instrument ID:**	024
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	38.2	95		85 - 117
Selenium	40.0	37.5	94		77 - 122

Total Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

PB100209 SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

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	0.210	U	1.050	U			M
Selenium	0.700	U	3.500	U			M

Comments: _____

TestAmerica

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

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: _____

TestAmerica

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

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

ICP ID Number: Agilent 7500 Date: 10/1/2009

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

Comments: _____

Form XII - IN

TestAmerica

Total Metals Analysis

-13-

PREPARATION LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030137

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
PB100209	10/6/2009	50.0	50.0
PB100209 MS	10/6/2009	50.0	50.0
PB100209 MSD	10/6/2009	50.0	50.0
MB9278251	10/6/2009	50.0	50.0
Check Sample	10/6/2009	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.: D9J030137

Instrument ID Number: Agilent 7500 Method: M

Start Date: 10/6/2009 End Date: 10/7/2009

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CAL BLANK	1.00	17:32				X															X						
100 PPB	1.00	17:35				X															X						
ICV	1.00	17:38				X															X						
ICB	1.00	17:44				X															X						
RL STD	1.00	17:47				X															X						
ICSA	1.00	17:55				X															X						
ICSAB	1.00	17:58				X															X						
RINSE	1.00	18:01				X															X						
LR1	1.00	18:04				X															X						
RINSE	1.00	18:07				X															X						
CCV	1.00	18:16				X															X						
CCB	1.00	18:18				X															X						
CAL BLANK	1.00	20:48				X															X						
100 PPB	1.00	20:51				X															X						
CCV	1.00	20:54				X															X						
CCB	1.00	20:57				X															X						
CCV	1.00	21:50				X															X						
CCB	1.00	21:53				X															X						
ICSA	1.00	21:59				X															X						
ICSAB	1.00	22:02				X															X						
WASH	1.00	22:05				X															X						
CCV	1.00	22:08				X															X						
CCB	1.00	22:11				X															X						
CAL BLANK	1.00	03:39				X															X						
100 PPB	1.00	03:42				X															X						
CCV	1.00	03:45				X															X						
CCB	1.00	03:48				X															X						
CCV	1.00	04:20				X															X						
CCB	1.00	04:23				X															X						
MB9278251	1.00	04:29				X															X						
Check Sample	1.00	04:32				X															X						
PB100209	1.00	04:35				X															X						
PB100209 SER	5.00	04:38				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.: D9J030137

Instrument ID Number: Agilent 7500 Method: M

Start Date: 10/6/2009 End Date: 10/7/2009

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
PB100209 PDS	1.00	04:41				X															X						
PB100209 MS	1.00	04:44				X															X						
PB100209 MSD	1.00	04:47				X															X						
CCV	1.00	04:56				X															X						
CCB	1.00	04:59				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: D9J030138

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Samples: 001 and 002

TestAmerica

Total Metals Analysis

COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: Northgate Environmental Management, Inc. SDG No.: D9J030138

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

SOW No.: _____

Sample ID.	Lab Sample No.
M-76009B	D9J030138-002
M-76B	D9J030138-001

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: 10/15/09 Title: Metals Analyst

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	M-76B
Lot/SDG Number:	D9J030138	**Lab Sample ID:**	D9J030138-001
Matrix:	WATER	**Lab WorkOrder:**	LL0FJ
% Moisture:	N/A	**Date/Time Collected:**	10/02/09 11:55
Basis:	Wet	**Date/Time Received:**	10/03/09 09:00
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:50
Sample Aliquot:	50 mL	**Instrument ID:**	024
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	**110**	0.21	5.0	
7782-49-2	Selenium	**4.5**	0.70	5.0	B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	M-76009B
Lot/SDG Number:	D9J030138	**Lab Sample ID:**	D9J030138-002
Matrix:	WATER	**Lab WorkOrder:**	LL0FK
% Moisture:	N/A	**Date/Time Collected:**	10/02/09 11:55
Basis:	Wet	**Date/Time Received:**	10/03/09 09:00
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:53
Sample Aliquot:	50 mL	**Instrument ID:**	024
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	**110**	0.21	5.0	
7782-49-2	Selenium	**3.9**	0.70	5.0	B

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

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030138

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	39.8	99.5	50.0	49.7	99.4	50.1	100.2	M
Selenium	40.0	40.3	100.8	50.0	49.4	98.8	51.3	102.6	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.: D9J030138

Initial Calibration Source: High Purity

Continuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				50.0	50.3	100.6	51.5	103.0	M
Selenium				50.0	49.1	98.2	52.9	105.8	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.: D9J030138

Initial Calibration Source: High Purity

Continuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				50.0	50.0	100.0	49.9	99.8	M
Selenium				50.0	48.8	97.6	48.5	97.0	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.: D9J030138

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	49.9	99.8			M
Selenium				50.0	49.8	99.6			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.: D9J030138

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.00	1.002	100.2		
Selenium				1.00	1.181	118.1		

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9J030138	**Lab Sample ID:**	D9J050000-251B
Matrix:	WATER	**Lab WorkOrder:**	LL1J7
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:29
Sample Aliquot:	50 mL	**Instrument ID:**	024
Dilution Factor:	1		

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

TestAmerica

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030138

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

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

Comments:

TestAmerica

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030138

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

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

Comments:

TestAmerica

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030138

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

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

Comments:

Total Metals Analysis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030138

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	0.37	101.50	101.5	0.56	100.20	100.2
Selenium	0.0	100.0	0.39	107.70	107.7	0.41	104.70	104.7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9J030138	**MS Lab Sample ID:**	D9J030137-001S
Matrix:	WATER	**MS Lab WorkOrder:**	LL0FG
% Moisture:	N/A	**Date/Time Collected:**	10/02/09 11:11
Basis:	Wet	**Date/Time Received:**	10/03/09 09:00
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:44
MS Sample Aliquot:	50 mL	**Instrument ID:**	024
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	0.21	U	38.7		97		85 - 117
Selenium	40.0	0.70	U	40.1		100		77 - 122

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9J030138	**MSD Lab Sample ID:**	D9J030137-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	LL0FG
% Moisture:	N/A	**Date/Time Collected:**	10/02/09 11:11
Basis:	Wet	**Date/Time Received:**	10/03/09 09:00
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:47
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	0.21	U	37.2		93		4.0		85 - 117	20
Selenium	40.0	0.70	U	36.4		91		9.8		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.: D9J030138

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	187.000		0.210	U	200.00	93.5		M
Selenium	75 - 125	184.200		0.700	U	200.00	92.1		M

Comments: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9J030138	**Lab Sample ID:**	D9J050000-251C
Matrix:	WATER	**Lab WorkOrder:**	LL1J7
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	6020	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/06/09 07:00
QC Batch ID:	9278251	**Date/Time Analyzed:**	10/07/09 04:32
Sample Aliquot:	50 mL	**Instrument ID:**	024
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	38.2	95		85 - 117
Selenium	40.0	37.5	94		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.: D9J030138

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	0.210	U	1.050	U			M
Selenium	0.700	U	3.500	U			M

Comments: _____

TestAmerica

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030138

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 Analvsis
-12-
ICP LINEAR RANGES (QUARTERLY)

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9J030138

ICP ID Number: Agilent 7500 Date: 10/1/2009

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.: D9J030138

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
INTRA-LAB QC	10/6/2009	50.0	50.0
LAB MS/MSD MS	10/6/2009	50.0	50.0
LAB MS/MSD MSD	10/6/2009	50.0	50.0
M-76B	10/6/2009	50.0	50.0
M-76009B	10/6/2009	50.0	50.0
MB9278251	10/6/2009	50.0	50.0
Check Sample	10/6/2009	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.: D9J030138

Instrument ID Number: Agilent 7500 Method: M

Start Date: 10/6/2009 End Date: 10/7/2009

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CAL BLANK	1.00	17:32				X															X						
100 PPB	1.00	17:35				X															X						
ICV	1.00	17:38				X															X						
ICB	1.00	17:44				X															X						
RL STD	1.00	17:47				X															X						
ICSA	1.00	17:55				X															X						
ICSAB	1.00	17:58				X															X						
RINSE	1.00	18:01				X															X						
LR1	1.00	18:04				X															X						
RINSE	1.00	18:07				X															X						
CCV	1.00	18:16				X															X						
CCB	1.00	18:18				X															X						
CAL BLANK	1.00	20:48				X															X						
100 PPB	1.00	20:51				X															X						
CCV	1.00	20:54				X															X						
CCB	1.00	20:57				X															X						
CCV	1.00	21:50				X															X						
CCB	1.00	21:53				X															X						
ICSA	1.00	21:59				X															X						
ICSAB	1.00	22:02				X															X						
WASH	1.00	22:05				X															X						
CCV	1.00	22:08				X															X						
CCB	1.00	22:11				X															X						
CAL BLANK	1.00	03:39				X															X						
100 PPB	1.00	03:42				X															X						
CCV	1.00	03:45				X															X						
CCB	1.00	03:48				X															X						
CCV	1.00	04:20				X															X						
CCB	1.00	04:23				X															X						
MB9278251	1.00	04:29				X															X						
Check Sample	1.00	04:32				X															X						
INTRA-LAB QC	1.00	04:35				X															X						
INTRA-LAB QC SER	5.00	04:38				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.: D9J030138

Instrument ID Number: Agilent 7500 Method: M

Start Date: 10/6/2009 End Date: 10/7/2009

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
INTRA-LAB QC PDS	1.00	04:41				X															X						
LAB MS/MSD MS	1.00	04:44				X															X						
LAB MS/MSD MSD	1.00	04:47				X															X						
M-76B	1.00	04:50				X															X						
M-76009B	1.00	04:53				X															X						
CCV	1.00	04:56				X															X						
CCB	1.00	04:59				X															X						

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

9.9°C
10.1.09

northgate
environmental management, inc.
1100 Quail Street, Suite 102, Newport Beach, CA 92660
(949) 260-9293

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC No. 2027.001.00932
Page: 1 of 1
Cooler # 1 of 1

Required Ship to Lab:

Lab Name:	TestAmerica
Address:	4955 Yarrow Street
	Arvada, CO 80002
Lab PM:	Michael P. Phillips
Phone/Fax:	303-736-0157
Lab PM email	michael.phillips@testamericainc.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	TRONOX LLC. HENDERSON
Project #	2027.001
Site Address	560 W. Lake Mead Drive
City	Henderson; State NV
Site PM Name	Derrick Willis
Phone/Fax:	949-375-7004
Site PM Email:	derrick.willis@ngem.com

Required Invoice Information:

Send Invoice to:	Susan Crowley, Tronox LLC
Address:	PO Box 55
City/State	Henderson, NV 89009; Phone #: (949)260-9293
Reimbursement project?	X; Non-reimbursement project? (Mark one)
Send EDD to	Frank Hagar Northgate Environmental Management, Inc frank.hagar@ngem.com
CC Hardcopy report to	PDF Electronic Version Only
CC Hardcopy report to	see additional comments below

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

Valid Matrix Codes: DRINKING WATER WP, GROUND WATER WG, WASTE WATER WW, FREE PRODUCT LF, SOIL SO, OIL OL, WIPE WP, AMBIENT AIR AA, SVE AIR AE, SOIL GAS GS; WATER W, SURFACE WATER WS, WATER QC WQ, SLUDGE SL, RINSEATE WH, OTHER OT, ANIMAL TISSUE TA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	EPA 8141A OPP Pest	Comments/Lab Sample I.D.
1	TR-4B	WG	G	9/30/2009	12:25	2	N	X								X	2 x 1 L Amber Glass
2																	
3																	
4																	
5	DRB 9-30-09																
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Additional Comments/Special Instructions:
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

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Dana R. Brown, NGEM	30-Sep	12:59	Darren Qualls, GES	9/30/2009	12:59
Darren Qualls, GES	30-Sep	[illegible]	[signature]	10.1.09	0930

SHIPPING METHOD (mark as appropriate): UPS COURIER FEDEX (circled) US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dana R. Brown
SIGNATURE of SAMPLER: [signature]
DATE Signed: 9/30/2009 Time: 12:59

Sample Receipt Conditions

Temp in OC	Samples on Ice?	Sample intact?	Trip Blank?
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

TestAmerica Denver

Sample Receiving Checklist

Lot #: D9J010204 Date/Time Received: 10-1-09/0830

Company Name & Sampling Site: Northgate - THNOX

PM to Complete This Section: *Yes* *No* Residual chlorine check required: ☐ ☒ Quarantined : *Yes* ☐ *No* ☒

Quote #: ~~83046~~ 83046

Special Instructions:

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

Unpacking Checks:

Cooler #(s): 1

Temperatures (°C): 4.9

N/A	Yes	No		Initials
☐	☑	☐	1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.	
	☑	☐	2. Coolers scanned for radiation. Is the reading ≤ 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 # D9J010204

Login Checks:

N/A	Yes	No		Initials
	☑	☐	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.	CHK
☑	☐	☐	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
☑	☐	☐	28. Was the subcontract COC signed and sent with samples to bottle prep?	MB
	☑	☐	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).

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10.1.09
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CHAIN-OF-CUSTODY / Analytical Request Document

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

COC No. 2027.001.00934
Page: 1 of 1
Cooler # 1 of 1

northgate
environmental management, inc.
1100 Quail Street, Suite 102, Newport Beach, CA 92660
(949) 260-9293

Required Ship to Lab:

Lab Name:	TestAmerica
Address:	4955 Yarrow Street
	Arvada, CO 80002
Lab PM:	Michael P. Phillips
Phone/Fax:	303-736-0157
Lab PM email	michael.phillips@testamericainc.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	TRONOX LLC. HENDERSON
Project #	2027.001
Site Address	560 W. Lake Mead Drive
City	Henderson
State	NV
Site PM Name	Derrick Willis
Phone/Fax:	949-375-7004
Site PM Email:	derrick.willis@ngem.com

Required Invoice Information:

Send Invoice to:	Susan Crowley Tronox LLC
Address:	PO Box 55
City/State	Henderson, NV 89009
Phone #:	(949)260-9293
Reimbursement project?	X
Non-reimbursement project?	Mark one
Send EDD to	Frank Hagar Northgate Environmental Management, Inc frank.hagar@ngem.com
CC Hardcopy report to	PDF Electronic Version Only
CC Hardcopy report to	see additional comments below

TAT: Standard 30 day	X	Rush	Mark One
If Rush, Date due			
QC level Required: Standard		Special	EPA Stage 4 / Mark one
NJ Reduced Deliverable Package?			
MA MCP Cert?		CT RCP Cert?	Mark One
Lab Project ID (lab use)			

Valid Matrix Codes: DRINKING WATER (WP), GROUND WATER (WG), WASTE WATER (LF), FREE PRODUCT (OIL), SOIL (SW), OIL (AA), WIPE (AE), AMBIENT AIR, SVE AIR, SOIL GAS, WATER (W), SURFACE WATER (WS), WATER QC (WQ), SLUDGE (SL), RINSEATE (WH), OTHER (OT), ANIMAL TISSUE (TA)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analyses: EPA 8141A/OPP Pest	Comments/Lab Sample I.D.
1	TR-2B	WG	G	9/30/2009	11.05	2	N	X								X	2 x 1 L Amber Glass
2																	
3																	
4																	
5																	
6	DRB																
7	9-30-09																
8																	
9																	
10																	
11																	
12																	

Additional Comments/Special Instructions:

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

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Dana R. Brown, NGEM	30-Sep	12:59	Darren Qualls, GES	9/30/2009	12:59
Darren Qualls, GES	30-Sep	1500	Corinne Byrne	10-1-09	0830

SHIPPING METHOD (mark as appropriate): UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dana R. Brown
SIGNATURE of SAMPLER:
DATE Signed: 9/30/2009 Time: 12:59

Sample Receipt Conditions

	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?	

Table of Contents

TestAmerica Denver

Sample Receiving Checklist

Lot #: D9J010210 Date/Time Received: 10.1.09 / 0830

Company Name & Sampling Site: Nostigate - TRONOX

PM to Complete This Section: *Yes* *No* *Yes* *No*
Residual chlorine check required: ☐ ☒ Quarantined : ☐ ☒

Quote #: 53046

Special Instructions:

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

Unpacking Checks:

Cooler #(s): 1

Temperatures (°C): 4.9

N/A	*Yes*	*No*		*Initials*
☐	☑	☐	1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.	
	☑	☐	2. Coolers scanned for radiation. Is the reading ≤ 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 # D9J010210

Login Checks:

Initials cnv

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 AB

N/A	*Yes*	*No*	
☑	☐	☐	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).

1,4 AW IRI 10/3/19

northgate environmental management, inc.

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC No. 2027.001.00951
Page: 1 of 1
Cooler # 1 of 1

Collection Area: II

Required Ship to Lab:		Required Project Information:		Required Invoice Information:			
Lab Name:	TestAmerica	Site ID #:	TRONOX LLC. HENDERSON	Send Invoice to:	Susan Crowley Tronox LLC	TAT: Standard 30 day	X Rush ( ) Mark One
Address:	4955 Yarrow Street	Project #	2027.001	Address:	PO Box 55	If Rush, Date due	
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?	X Non-reimbursement project? ( ) Mark one	NJ Reduced Deliverable Package?	
Phone/Fax:	303-736-0157	Site PM Name	Derrick Willis	Send EDD to	Frank Hagar Northgate Environmental Management, Inc frank.hagar@ngem.com	MA MCP Cert? ( )	CT RCP Cert? ( ) Mark One
Lab PM email	michael.phillips@testamericainc.com	Phone/Fax:	949-375-7004	CC Hardcopy report to	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		

Valid Matrix Codes: MATRIX — DRINKING WATER WP; GROUND WATER WG; WASTE WATER LF; FREE PRODUCT BO; SOIL SW; OIL AA; WIPE AE; AMBIENT AIR SVE AIR SOIL GAS; WATER W; WATER QC WQ; OIL BL; SLUDGE SL; RINSEATE WH; OTHER OT; ANIMAL TISSUE TA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analyses: EPA 6020/Collision Ce	EPA 8141A OPP Pest	Comments/Lab Sample I.D.
1	PB100209	WG	G	10/2/2009	11:11	1	N			X						X		500 ml Plastic
2																		
3																		
4																		
5																		
6	DRB																	
7	10-2-09																	
8																		
9																		
10																		
11																		
12																		

Additional Comments/Special Instructions:

As Se only by collison 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

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Dana R. Brown, NGEM	2-Oct	15:05	Darren Qualls, GES	10/2/2009	15:05
Darren Qualls, GES	2-Oct	1630		10/3/19	0900

SHIPPING METHOD: (mark as appropriate) UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dana R. Brown
SIGNATURE of SAMPLER:
DATE Signed 10/2/2009 Time: 15:05

Sample Receipt Conditions	Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N

TestAmerica

Table of Contents

TestAmerica Denver

Sample Receiving Checklist

Lot #: D9JD301357 Date/Time Received: 10/3/9 0900

Company Name & Sampling Site: Tronox

PM to Complete This Section:	*Yes*	*No*		*Yes*	*No*
Residual chlorine check required:	☐	☐	Quarantined :	☐	☐

Quote #:

Special Instructions:

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

Unpacking Checks:

Cooler #(s): _____ _____ _____ _____ _____ _____ _____ _____

Temperatures (°C): 1.9°C _____ _____ _____ _____ _____ _____ _____

N/A	*Yes*	*No*		*Initials*
☐	☑	☐	1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.	JC
	☑	☐	2. Coolers scanned for radiation. Is the reading ≤ 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 # D9J030137

Login Checks:

Initials AG

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

Labeling and Storage Checks:

Initials LC

☑	☐	☐	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).

1,9
AC
JRI
10/3/09

northgate
environmental management, inc.
1100 Quail Street, Suite 102, Newport Beach, CA 92660
(949) 260-9293

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC No. 2027.001.00950
Page: 1 of 1
Cooler # 1 of 1
Collection Area: II

Required Ship to Lab:		Required Project Information:		Required Invoice Information:			
Lab Name:	TestAmerica	Site ID #:	TRONOX LLC. HENDERSON	Send Invoice to:	Susan Crowley Tronox LLC	TAT: Standard 30 day	X
Address:	4955 Yarrow Street	Project #	2027.001	Address:	PO Box 55	If Rush, Date due	
	Arvada, CO 80002	Site Address	560 W. Lake Mead Drive	City/State	Henderson, NV 89009	Phone #:	(949)260-9293
Lab PM:	Michael P. Phillips	City	Henderson	State	NV	Reimbursement project?	X
Phone/Fax:	303-736-0157	Site PM Name	Derrick Willis	Send EDD to	Frank Hagar Northgate Environmental Management, Inc frank.hagar@ngem.com		
Lab PM email	michael.phillips@testamericainc.com	Phone/Fax:	949-375-7004	CC Hardcopy report to	PDF Electronic Version Only		
Applicable Lab Quote #:		Site PM Email:	derrick.willis@ngem.com	CC Hardcopy report to	see additional comments below		

Rush		Mark One
QC level Required: Standard		Special
EPA Stage 4		Mark one
NJ Reduced Deliverable Package?		
MA MCP Cert?		CT RCP Cert?
		Mark One

Lab Project ID (lab use)

Valid Matrix Codes: MATRIX — DRINKING WATER (WP), GROUND WATER (WG), WASTE WATER (LF), FREE PRODUCT (SO), SOIL (SW), OIL (AA), WIPE (AE), AMBIENT AIR (OS), SVE AIR, SOIL GAS; WATER (W), SURFACE WATER (WS), WATER QC (WQ), SLUDGE (SL), RINSEATE (WH), OTHER (OT), ANIMAL TISSUE (TA)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analyses: EPA 6020/Collision Ce	EPA 8141A OPP Pest	Comments/Lab Sample I.D.
1	M-76B	WG	G	10/2/2009	11:55	1	N			X						X		500 ml Plastic
2	M-76009B	WG	G	10/2/2009	11:55	1	N			X						X		500 ml Plastic
3																		
4																		
5																		
6	DDB																	
7	10-2-09																	
8																		
9																		
10																		
11																		
12																		

Additional Comments/Special Instructions:

As Se only by collison 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

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Dana R. Brown, NGEM	2-Oct	15:05	Darren Qualls, GES	10/2/2009	15:05
Darren Qualls, GES	2-Oct			10/3/	0900

Sample Receipt Conditions

	Y / N	Y / N	Y / N
	Y / N	Y / N	Y / N
	Y / N	Y / N	Y / N
	Y / N	Y / N	Y / N

SHIPPING METHOD: (mark as appropriate) — UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dana R. Brown
SIGNATURE of SAMPLER:
DATE Signed: 10/2/2009 Time: 15:05

Temp in C° | Samples on Ice? | Sample intact? | Trip Blank?

TestAmerica Denver

Sample Receiving Checklist

Lot #: D9J030138 Date/Time Received: 10/3/09 0900

Company Name & Sampling Site: Northgate - Tronox

PM to Complete This Section:	*Yes*	*No*		*Yes*	*No*
Residual chlorine check required:	☐	☐	Quarantined :	☐	☐

Quote #:

Special Instructions:

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

Unpacking Checks:

Cooler #(s): _____ _____ _____ _____ _____ _____ _____ _____

Temperatures (°C): 1.9°C _____ _____ _____ _____ _____ _____ _____

N/A	*Yes*	*No*		*Initials*
☐	☑	☐	1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.	AC
	☑	☐	2. Coolers scanned for radiation. Is the reading ≤ to background levels? Yes: ✓ No:____	
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	☐	☑	18. Was a quick Turn Around (TAT) requested?	

TestAmerica Denver

Sample Receiving Checklist

Lot # D9J030138

Login Checks:

Initials

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.
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Labeling and Storage Checks:

Initials

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☑	☐	☐	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).

Semivolatile GC

Supporting Documentation

Sample Sequence, Chromatograms

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9J010204

Client: Northgate

Method: 8141

Associated Samples: 1

Batch #(s): 9274555

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

Signature/Date: 10.12.09

GC SEMIVOLATILE ORGANIC EXTRACTION LOG SHEETS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/02/09
Time: 23:27:56

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
—	—	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			Y	Y	Anomalies to Extraction Method

— Expanded Deliverable
— COC Completed
— Bench Sheet Copied
— Package Submitted to AnalyticalGrou
— Bench Sheet Copied per COC

Extractionist: 011821 Chad M. Lane

Concentrationist: 004507 Brittany Scoles

Reviewer/Date: SCOLESB / 10/02/09

****
* *
* **QC BATCH: 9274555** *
* *
****

PREP DATE: 10/01/09 20:05
COMP DATE: 10/02/09 18:25

Compounds, Organophosphorus (8141A)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
10/07/09	10/13/09	D9J010204-001 **LLTKN-1-AA**	DR	09	P2	WATER	**1057mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	10/13/09	D9J010210-001 **LLTKX-1-AA**	DR	09	P2	WATER	**1053mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	0/00/00	D9J010000-555 **LLVJ0-1-AAB**		09	P2	WATER	**1000mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	0/00/00	D9J010000-555 **LLVJ0-1-ACC**		09	P2	WATER	**1000mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1012 9/14/09 1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	0/00/00	D9J010000-555 **LLVJ0-1-ADL**	R	09	P2	WATER	**1000mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1012 9/14/09 1ML GSV1050 9/24/09
COMMENTS:															

DV-OP-0006/7 BAL:M27995 H20:ELGA NACL:H14611 MECL2:H35J11 S/S:CL-E W:DB
NA2SO4:H09600 TURBO-VAP C@40C PIP:CON-6 HEX:H25E29
SHARE QC:9274554

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: C:\HPCHEM\2\SEQUENCE\D100509.S

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 GSV1085				
4	Vial 4	GSV1114-09 LCS				
5	Vial 5	LLN4X1AA,MB				
6	Vial 6	LLN4X1AC,LCS				
7	Vial 7	LLN4X1AD,LCSD				
8	Vial 8	LLE0E1AA,244-1				
9	Vial 9	LKXKM1AA,MB				
10	Vial 10	LKXKM1AC,LCS				
11	Vial 11	LKXKM1AD,LCSD				
12	Vial 12	LKVW31A1,125-1				
13	Vial 13	LLQ6W1AA,MB				
14	Vial 14	LLQ6W1AC,LCS				
15	Vial 15	LLG321AA,174-1				
16	Vial 16	LLG321AF,174-1S				
17	Vial 17	LLG321AG,174-1D				
18	Vial 18	8141 CCV GSV1085				
19	Vial 19	LLQPL1AA,MB				
20	Vial 20	LLQ971AA,LCS				
21	Vial 21	LLFGF1AA,305-1				
22	Vial 22	LLFGF1AD,305-1S				
23	Vial 23	LLFGF1AE,305-1D				
24	Vial 24	LLFGK1AA,305-2				
25	Vial 25	LLQPN1AA,MB				
26	Vial 26	LLRA31AA,LCS				
27	Vial 27	LLFGF1AC,305-1				
28	Vial 28	LLFGK1AC,305-2				
29	Vial 29	LLFGK1AD,305-2S				
30	Vial 30	LLFGK1AE,305-2D				
31	Vial 31	LLFGK1AD,305-2S				
32	Vial 32	8141 CCV GSV1085				
33	Vial 33	LLVJF1AA,MB				
34	Vial 34	LLVJF1AC,LCS				
35	Vial 35	LLVJF1AD,LCSD				
36	Vial 36	LLQRR1AA,236-1				
37	Vial 37	LLVJ01AA,MB				
38	Vial 38	LLVJ01AC,LCS				
39	Vial 39	LLVJ01AD,LCSD				
40	Vial 40	LLTKN1AA,204-1				
41	Vial 41	LLTKX1AA,210-1				
42	Vial 42	LL01M1AA,MB				
43	Vial 43	LL01M1AC,LCS				
44	Vial 44	LL01M1AD,LCSD				
45	Vial 45	LLXA51AE,256-1				
46	Vial 46	LLX1Q1AA,331-1				
47	Vial 47	LLX1V1AA,331-2				
48	Vial 48	LLX1W1AA,331-3				
49	Vial 49	LLX1X1AA,331-4				
50	Vial 50	LLX101AA,331-5				
51	Vial 51	8141 CCV GSV1085				
52	Vial 52	LLVJT1AA,MB				
53	Vial 53	LLVJT1AC,LCS				
54	Vial 54	LLVJT1AD,LCSD				
55	Vial 55	LK9DD2AA,250-1				
56	Vial 56	LLNL31AA,202-1				
57	Vial 57	LLNL51AA,202-2				
58	Vial 58	LLNL61AA,202-3				
59	Vial 59	LLNL71AA,202-4				

9272488

9259504

9273433

9273443

9273461

9274554

9274555

9277075

9274556

29 — RR, bad injection?

Sequence: C:\HPCHEM\2\SEQUENCE\D100509.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	8141 CCV GSV1085				

Sequence Table (Back Injector):

No entries - empty table!

GC SEMIVOLATILE
CONTINUING CALIBRATION DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 o,o,o-TEPT	2.5000	2.3091	7.6	15.0	
2 Dichlorvos	2.5000	2.1896	12.4	15.0	
3 Mevinphos	2.5000	2.1803	12.8	15.0	
4 Chlormefos	2.5000	2.1809	12.8	15.0	
5 Thionazin	2.5000	2.2818	8.7	15.0	
6 Demeton-O	0.8125	0.8212	1.1	15.0	
7 Ethoprop	2.5000	2.4151	3.4	15.0	
8 Naled	2.5000	2.1971	12.1	15.0	
9 Sulfotepp	2.5000	2.2945	8.2	15.0	
10 Phorate	2.5000	2.4837	0.7	15.0	
11 Dimethoate	2.5000	2.2770	8.9	15.0	
12 Demeton-S	1.7000	1.6323	4.0	15.0	
13 Simazine	2.5000	2.3907	4.4	15.0	
14 Atrazine	2.5000	2.3174	7.3	15.0	
15 propazine	2.5000	2.2607	9.6	15.0	
17 Disulfoton	2.5000	2.3894	4.4	15.0	
16 Diazinon	2.5000	2.3977	4.1	15.0	
18 Methyl Parathion	2.5000	2.3054	7.8	15.0	
19 Ronnel	2.5000	2.1990	12.0	15.0	
20 Malathion	2.5000	2.6321	5.3	15.0	
21 Fenthion	2.5000	2.3311	6.8	15.0	
22 Parathion	2.5000	2.3221	7.1	15.0	
23 Chlorpyrifos	2.5000	2.2964	8.1	15.0	
24 Trichloronate	2.5000	2.2911	8.4	15.0	
25 Anilazine	2.5000	1.5327	38.7	15.0	<-
148 Merphos-A (Merphos)	2.5000	2.6681	6.7	999.0	
26 Tetrachlorvinphos (Stirophos)	2.5000	2.2213	11.1	15.0	
28 Tokuthion	2.5000	2.3960	4.2	15.0	
149 Merphos-B (Merphos Oxone)	2.5000	2.2814	8.7	999.0	
29 Carbophenothion-methyl	2.5000	2.3279	6.9	15.0	
29 Fensulfothion	2.5000	2.5396	1.6	15.0	
30 Bolstar / Famphur	5.0000	4.9866	0.3	15.0	
32 Carbophenothion	2.5000	2.3477	6.1	15.0	
31 Triphenyl phosphate	2.5000	2.3618	5.5	15.0	
34 Phosmet	2.5000	2.4522	1.9	15.0	
32 EPN	2.5000	2.5216	0.9	15.0	
33 Azinphos-methyl	2.5000	2.5110	0.4	15.0	
38 Azinphos-ethyl	2.5000	2.4146	3.4	15.0	
36 Coumaphos	2.5000	2.4022	3.9	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4535	1.9	15.0
27 Merphos	2.5000	2.4801	0.8	15.0

Average %D = 6.85

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\032F3201.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 11:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:21 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 32 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.222	4.271	(0.309)	614859	2.50000	2.309
	2 Dichlorvos	5.803	5.824	(0.425)	418432	2.50000	2.190
	3 Mevinphos	9.344	9.342	(0.685)	190645	2.50000	2.180
$	4 Chlormefos	9.459	9.462	(0.693)	539785	2.50000	2.181
	5 Thionazin	12.583	12.576	(0.922)	438689	2.50000	2.282
	6 Demeton-O	12.835	12.830	(0.941)	137428	0.81250	0.8212
	7 Ethoprop	13.150	13.144	(0.964)	450303	2.50000	2.415
	8 Naled	13.430	13.425	(0.984)	138369	2.50000	2.197
*	9 Tributylphosphate	13.646	13.639	(1.000)	350865	2.00000	
	10 Sulfotepp	14.105	14.101	(1.034)	578378	2.50000	2.294
	11 Phorate	14.190	14.188	(1.040)	428277	2.50000	2.484
	12 Dimethoate	14.380	14.362	(1.054)	407824	2.50000	2.277
	13 Demeton-S	14.640	14.628	(1.073)	256514	1.70000	1.632
	14 Simazine	14.764	14.753	(1.082)	144129	2.50000	2.391
	15 Atrazine	14.975	14.969	(1.097)	171653	2.50000	2.317
	16 propazine	15.156	15.151	(1.111)	173330	2.50000	2.261
	17 Disulfoton	15.836	15.829	(0.585)	328995	2.50000	2.389
	18 Diazinon	15.900	15.896	(0.588)	455891	2.50000	2.398
	19 Methyl Parathion	16.810	16.799	(0.621)	313706	2.50000	2.305
	20 Ronnel	17.425	17.419	(0.644)	318998	2.50000	2.199
	21 Malathion	18.094	18.088	(0.669)	278715	2.50000	2.632
	22 Fenthion	18.255	18.245	(0.675)	312184	2.50000	2.331
	23 Parathion	18.366	18.355	(0.679)	286062	2.50000	2.322
	24 Chlorpyrifos	18.417	18.411	(0.681)	463318	2.50000	2.296
	25 Trichloronate	18.923	18.918	(0.699)	398576	2.50000	2.291
	26 Anilazine	19.354	19.324	(0.715)	10246	2.50000	1.533
	27 Merphos-A (Merphos)	19.765	19.757	(0.730)	107370	2.50000	2.668
	28 Tetrachlorvinphos (Stirophos)	20.488	20.478	(0.757)	222594	2.50000	2.221
	29 Tokuthion	21.241	21.233	(0.785)	366781	2.50000	2.396
	30 Merphos-B (Merphos Oxone)	21.492	21.484	(0.794)	268511	2.50000	2.281
	31 Carbophenothion-methyl	22.226	22.213	(0.821)	260279	2.50000	2.328
	32 Fensulfothion	22.416	22.390	(0.828)	312585	2.50000	2.540
	33 Bolstar / Famphur	23.583	23.573	(0.872)	632348	5.00000	4.986

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.907	23.898	(0.883)	304483	2.50000	2.348
$	35 Triphenyl phosphate	25.232	25.224	(0.932)	248758	2.50000	2.362(A)
	36 Phosmet	25.762	25.743	(0.952)	243466	2.50000	2.452
	37 EPN	26.081	26.074	(0.964)	320200	2.50000	2.522
	38 Azinphos-methyl	26.581	26.569	(0.982)	258807	2.50000	2.511
*	39 TOCP	27.060	27.056	(1.000)	227665	2.00000	
	40 Azinphos-ethyl	27.165	27.155	(1.004)	280457	2.50000	2.415
	41 Coumaphos	27.690	27.680	(1.023)	245256	2.50000	2.402
M	42 Total Demeton				393942	2.50000	2.454
M	43 Merphos				375881	2.50000	2.480

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

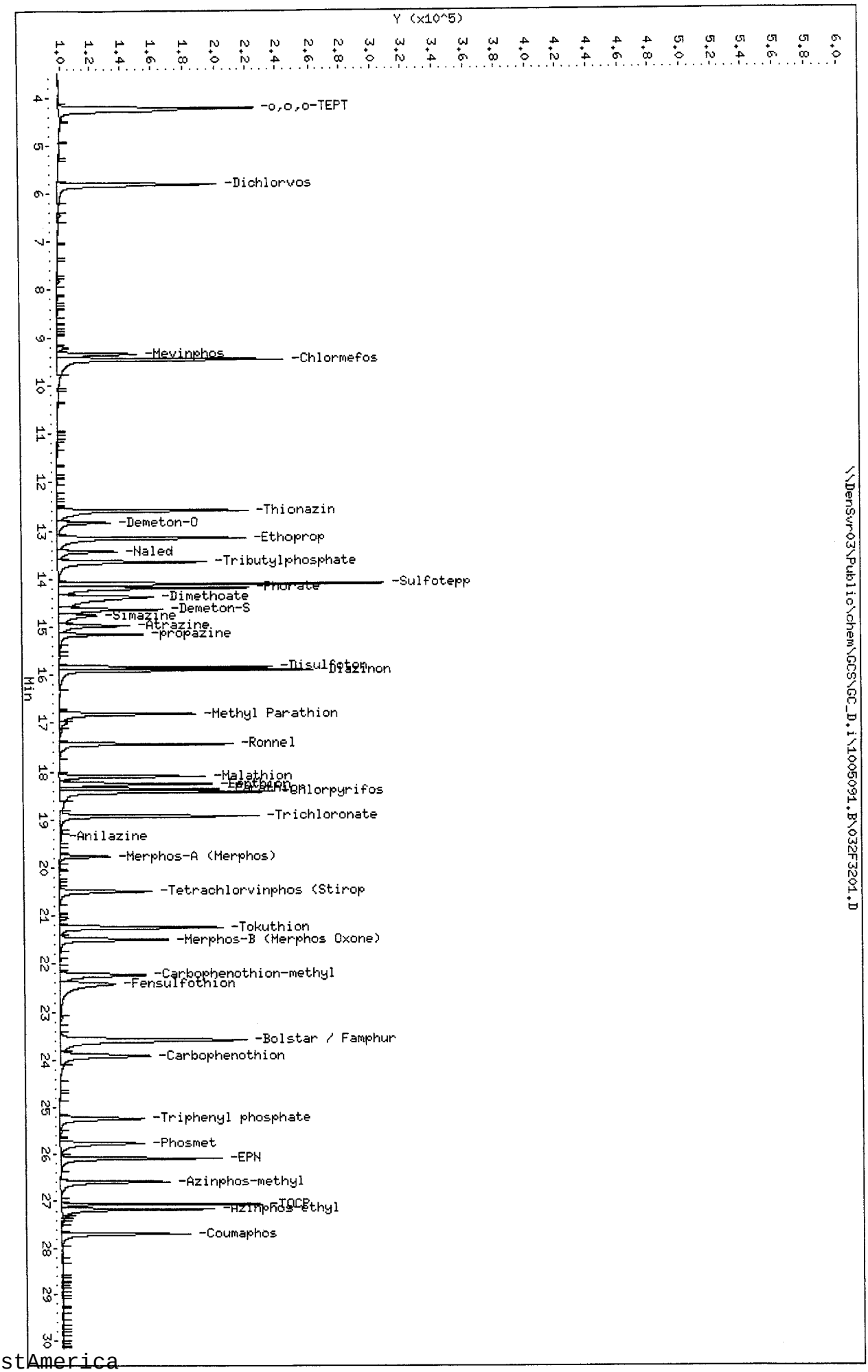
Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 23:21
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	290754	145377	581508	350865	20.67
39 TOCP	198800	99400	397600	227665	14.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.04
39 TOCP	27.06	26.56	27.56	27.06	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\GCS\GC_D,i\1005091,B\032F3201,D
Date : 06-OCT-2009 11:49
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-1MS

\\DenSvr03\Public\chem\GCS\GC_D,i\1005091,B\032F3201,D

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Page 4

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.5348	1.4	15.0	
2	Dichlorvos	2.5000	2.3710	5.2	15.0	
3	Chlormefos	2.5000	2.3297	6.8	15.0	
4	Mevinphos	2.5000	2.5889	3.6	15.0	
5	Demeton-O	0.8125	0.7797	4.0	15.0	
6	Thionazin	2.5000	2.4427	2.3	15.0	
7	Ethoprop	2.5000	2.1920	12.3	15.0	
10	Naled	2.5000	2.1626	13.5	15.0	
145	Sulfotepp	2.5000	2.4808	0.8	15.0	
8	Phorate	2.5000	2.4124	3.5	15.0	
15	Demeton-S	1.7000	1.5691	7.7	15.0	
10	Simazine	2.5000	2.0616	17.5	15.0	<-
13	Atrazine / Propazine	5.0000	4.5254	9.5	15.0	
16	Dimethoate	2.5000	2.3853	4.6	15.0	
11	Diazinon	2.5000	2.3952	4.2	15.0	
14	Disulfoton	2.5000	2.4544	1.8	15.0	
23	Methyl Parathion	2.5000	2.3407	6.4	15.0	
17	Ronnel	2.5000	2.3916	4.3	15.0	
24	Malathion	2.5000	2.4162	3.4	15.0	
18	Chlorpyrifos	2.5000	2.3054	7.8	15.0	
20	Trichloronate	2.5000	2.2651	9.4	15.0	
26	Parathion	2.5000	2.3586	5.7	15.0	
19	Fenthion	2.5000	2.3981	4.1	15.0	
151	Merphos-A (Merphos)	2.5000	2.2599	9.6	999.0	
21	Anilazine	2.5000	0.3259	87.0	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.5000	2.4125	3.5	15.0	
25	Tokuthion	2.5000	2.4106	3.6	15.0	
148	Merphos-B (Merphos oxone)	2.5000	2.2785	8.9	999.0	
28	Carbophenothion methyl	2.5000	2.4279	2.9	15.0	
30	Fensulfothion	2.5000	2.4677	1.3	15.0	
28	Bolstar	2.5000	2.4824	0.7	15.0	
30	Carbophenothion	2.5000	2.3773	4.9	15.0	
33	Famphur	2.5000	2.4308	2.8	15.0	
29	Triphenyl phosphate	2.5000	2.4082	3.7	15.0	
32	EPN	2.5000	2.4389	2.4	15.0	
34	Phosmet	2.5000	2.5624	2.5	15.0	
34	Azinphos-methyl	2.5000	2.5478	1.9	15.0	
35	Azinphos-ethyl	2.5000	2.4913	0.3	15.0	
36	Coumaphos	2.5000	2.3812	4.8	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.3488	6.0	15.0
22 Merphos	2.5000	2.4773	0.9	15.0

Average %D = 7.01

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\032F3201.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 11:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:27 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 32 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.710	6.724	(0.416)	447369	2.50000	2.535
	2 Dichlorvos	8.896	8.899	(0.551)	297958	2.50000	2.371
$	3 Chlormefos	12.834	12.830	(0.795)	280019	2.50000	2.330
	4 Mevinphos	12.949	12.944	(0.802)	195427	2.50000	2.589
	5 Demeton-O	15.899	15.894	(0.985)	58250	0.81250	0.7797
	6 Thionazin	16.025	16.019	(0.993)	265552	2.50000	2.443
*	7 Tributylphosphate	16.144	16.139	(1.000)	210740	2.00000	
	8 Ethoprop	16.287	16.282	(1.009)	284706	2.50000	2.192
	9 Naled	16.873	16.866	(1.045)	83994	2.50000	2.162
	10 Sulfotepp	17.186	17.181	(1.065)	363795	2.50000	2.481(M)
	11 Phorate	17.221	17.219	(1.067)	240176	2.50000	2.412(M)
	12 Demeton-S	17.913	17.906	(1.110)	134641	1.70000	1.569
	13 Simazine	18.325	18.319	(1.135)	38708	2.50000	2.062
	14 Atrazine / Propazine	18.390	18.384	(1.139)	181732	5.00000	4.525
	15 Dimethoate	18.520	18.510	(1.147)	265565	2.50000	2.385
	16 Diazinon	18.915	18.910	(1.172)	249962	2.50000	2.395
	17 Disulfoton	19.180	19.173	(1.188)	259789	2.50000	2.454
	18 Methyl Parathion	21.080	21.074	(0.735)	199605	2.50000	2.341(A)
	19 Ronnel	21.165	21.160	(0.738)	249697	2.50000	2.392
	20 Malathion	22.427	22.420	(0.782)	183243	2.50000	2.416
	21 Chlorpyrifos	22.583	22.576	(0.787)	224796	2.50000	2.305
	22 Trichloronate	22.755	22.749	(0.793)	235778	2.50000	2.265
	23 Parathion	22.808	22.801	(0.795)	223724	2.50000	2.359
	24 Fenthion	22.875	22.869	(0.798)	282343	2.50000	2.398
	25 Merphos-A (Merphos)	23.411	23.403	(0.816)	81864	2.50000	2.260
	26 Anilazine	24.392	24.386	(0.850)	1371	2.50000	0.3259
	27 Tetrachlorvinphos (stirophos)	25.828	25.821	(0.901)	156800	2.50000	2.412
	28 Tokuthion	26.009	26.004	(0.907)	242467	2.50000	2.411
	29 Merphos-B (Merphos oxone)	26.141	26.137	(0.911)	201196	2.50000	2.278
	30 Carbophenothion methyl	26.976	26.973	(0.941)	182918	2.50000	2.428
	31 Fensulfothion	27.213	27.209	(0.949)	163485	2.50000	2.468
	32 Bolstar	27.324	27.322	(0.953)	219427	2.50000	2.482
	33 Carbophenothion	27.438	27.436	(0.957)	183313	2.50000	2.377

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.622	27.620	(0.963)	186800	2.50000	2.431
$	35 Triphenyl phosphate	27.913	27.912	(0.973)	158332	2.50000	2.408
	36 EPN	28.220	28.219	(0.984)	197790	2.50000	2.439
	37 Phosmet	28.347	28.345	(0.988)	179030	2.50000	2.562
*	38 TOCP	28.681	28.680	(1.000)	167368	2.00000	
	39 Azinphos-methyl	28.795	28.792	(1.004)	167472	2.50000	2.548
	40 Azinphos-ethyl	29.105	29.102	(1.015)	171674	2.50000	2.491
	41 Coumaphos	29.430	29.428	(1.026)	155106	2.50000	2.381
M	42 Total Demeton				192891	2.50000	2.349
M	43 Merphos				283060	2.50000	2.477(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

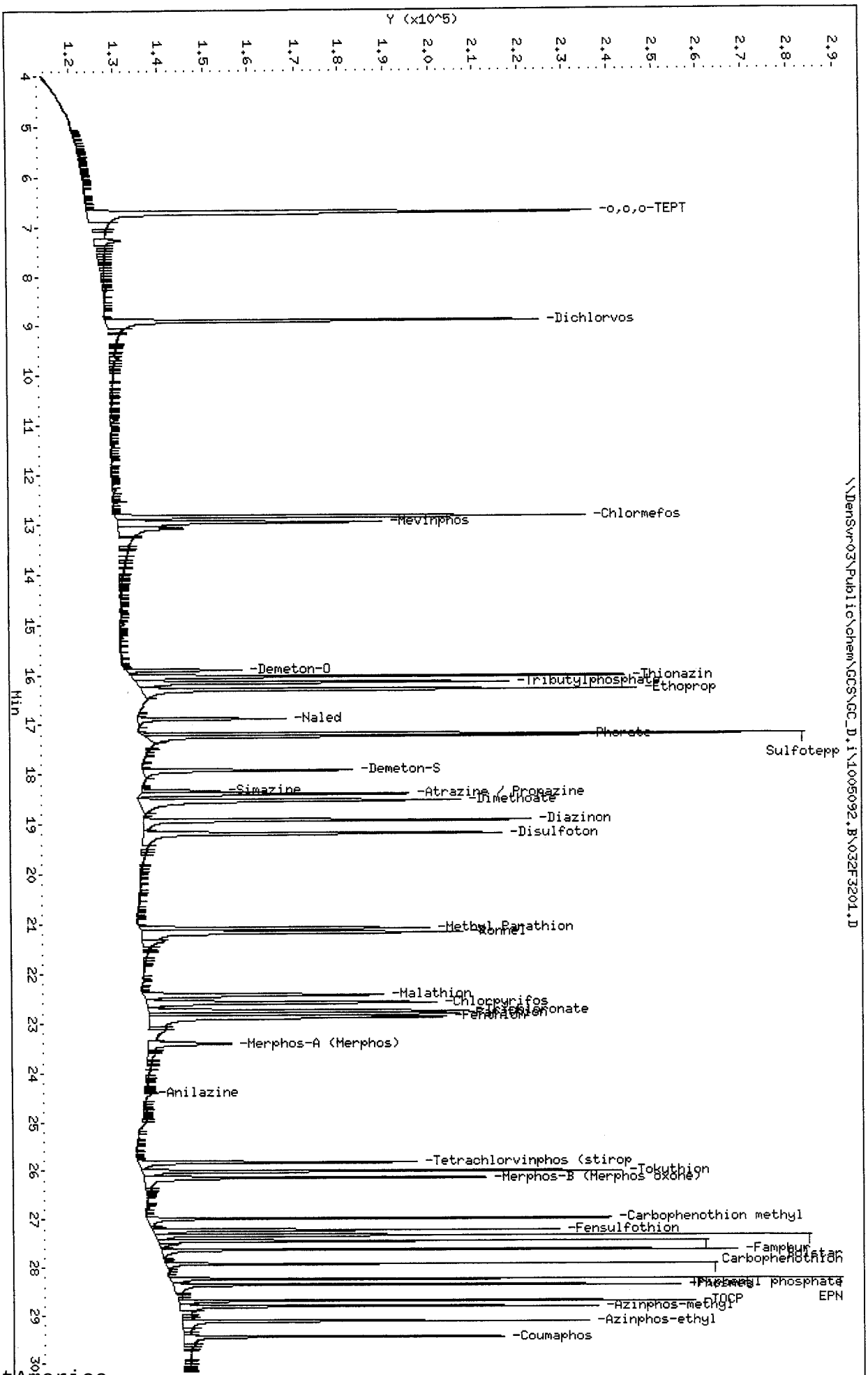
Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 23:21
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	204831	102416	409662	210740	2.88
38 TOCP	153886	76943	307772	167368	8.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.14	0.02
38 TOCP	28.68	28.18	29.18	28.68	0.00

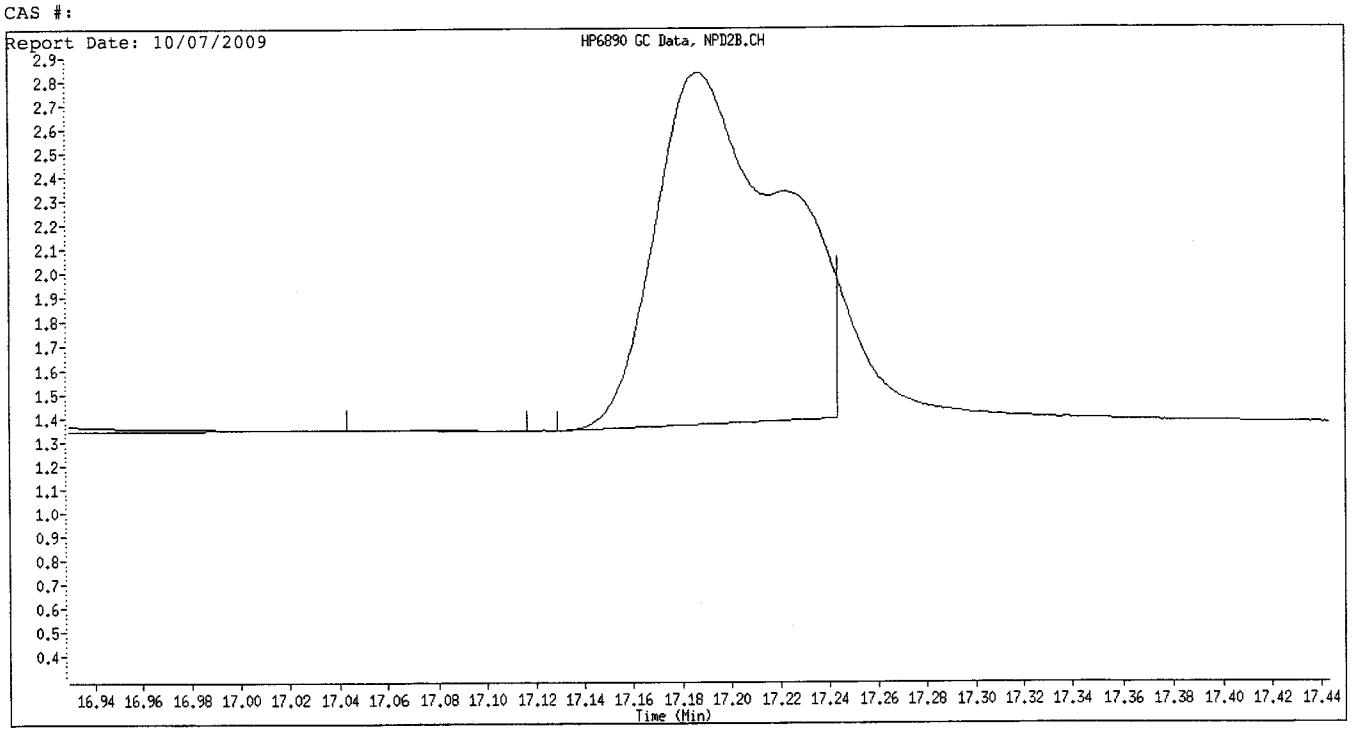
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



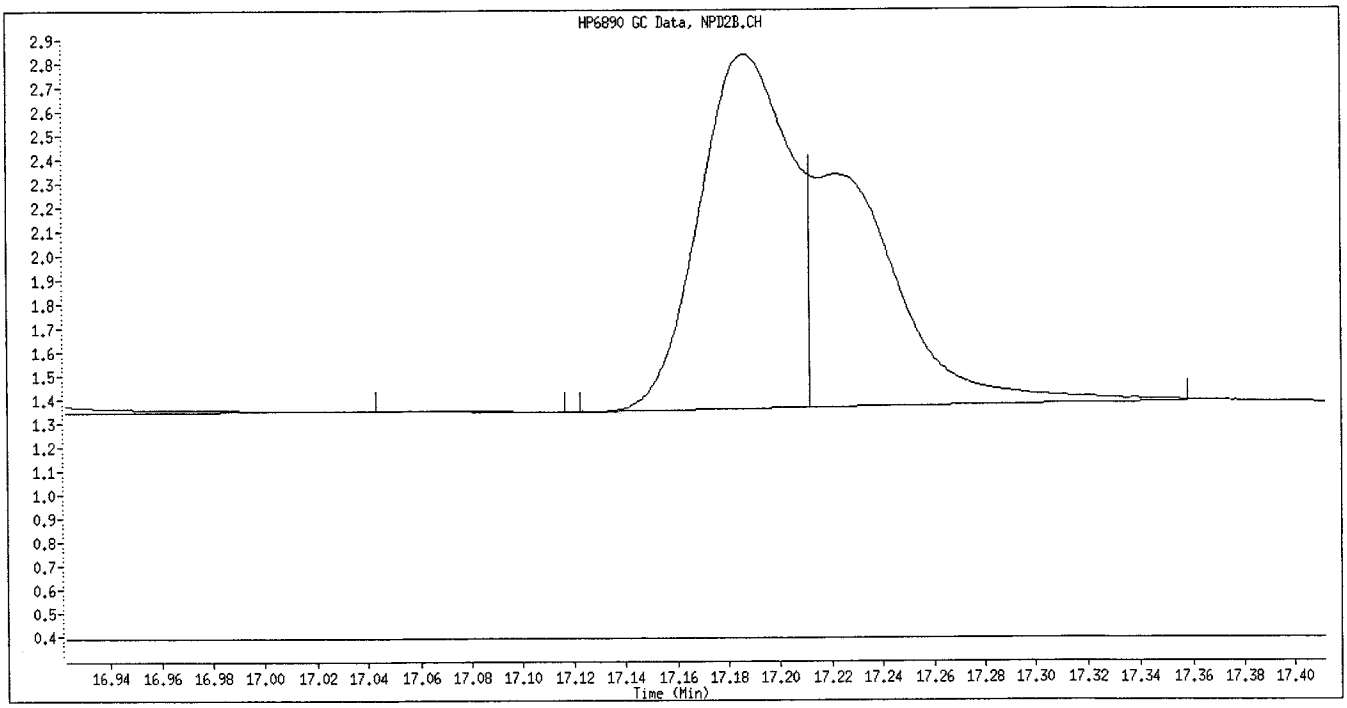
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\1005092,B\032F3201,D
Date : 06-OCT-2009 11:49
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-OPPest

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 032F3201.D
Inj. Date and Time: 06-OCT-2009 11:49
Instrument ID: GC_D.i
Client ID: 8141 CCV GSV1085
Compound Name: Sulfotepp
CAS #:



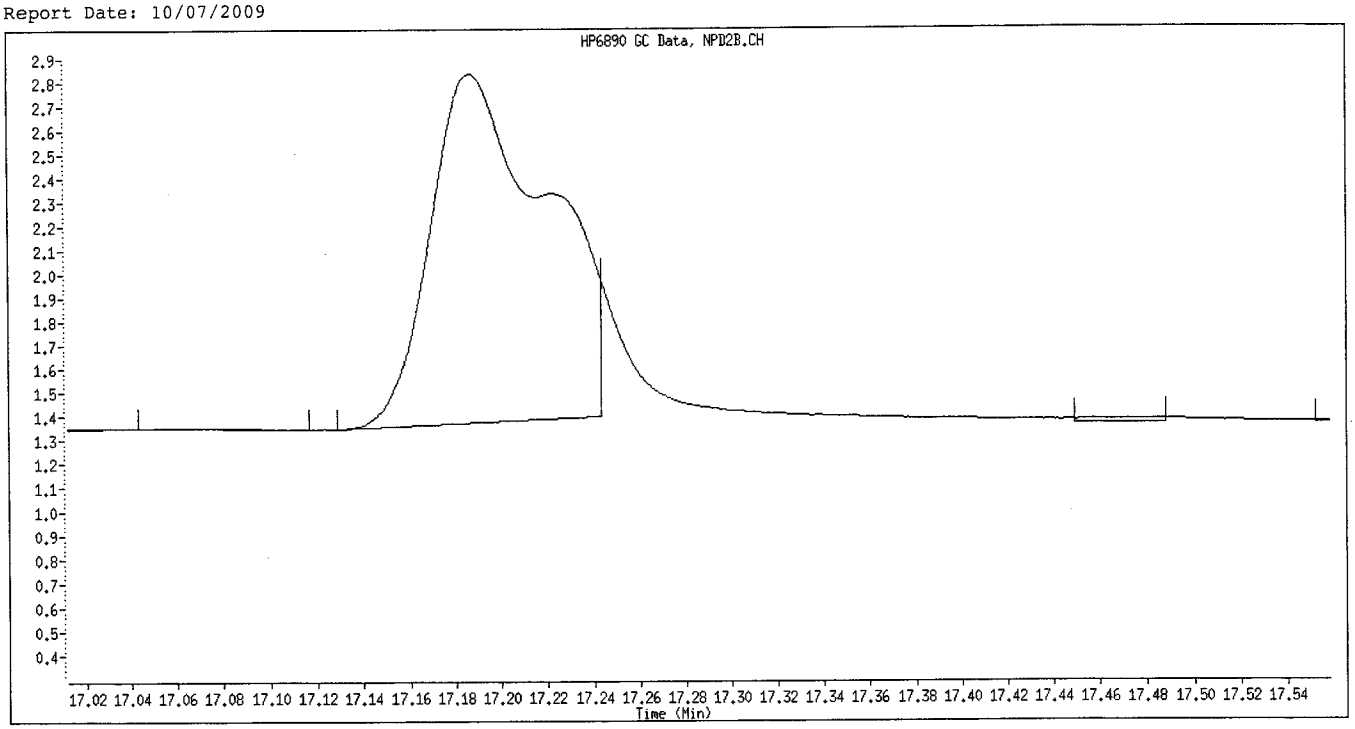
Original Integration



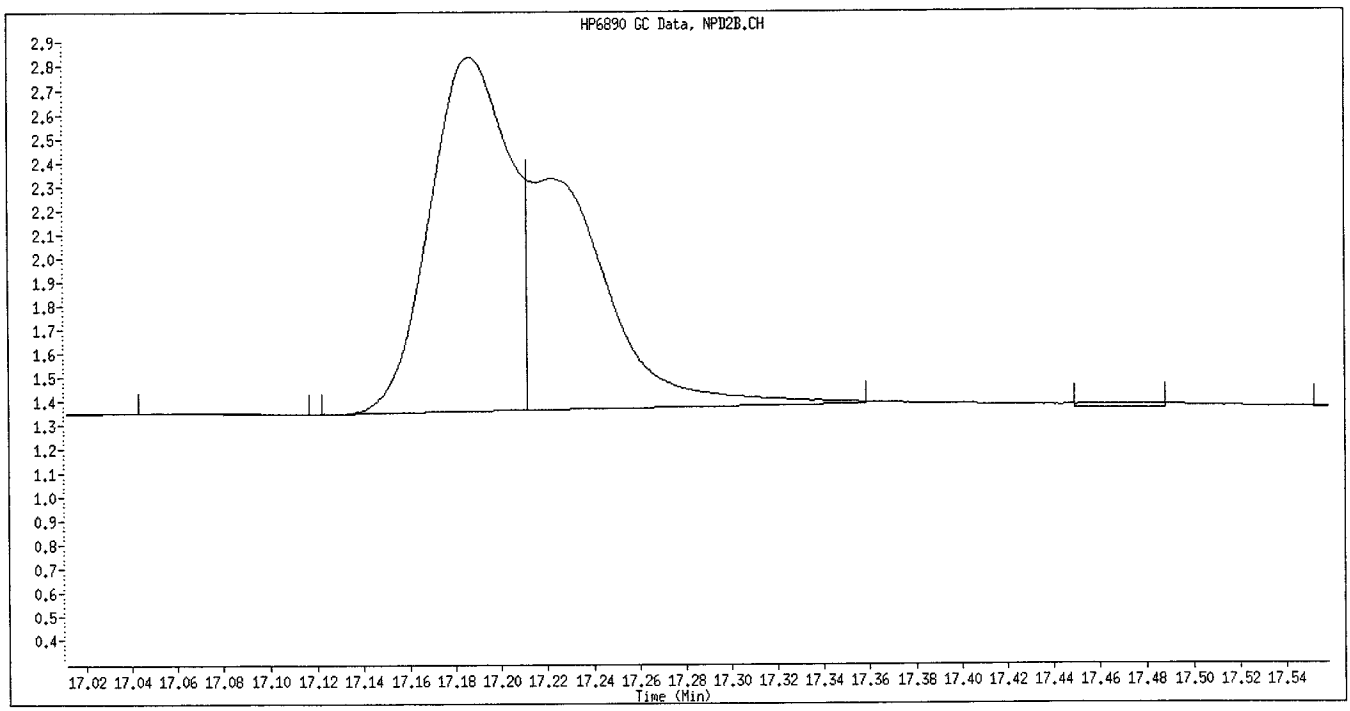
Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Data File Name: 032F3201.D
Inj. Date and Time: 06-OCT-2009 11:49
Instrument ID: GC_D.i
Client ID: 8141 CCV GSV1085
Compound Name: Phorate
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 o,o,o-TEPT	2.5000	2.6239	5.0	15.0	
2 Dichlorvos	2.5000	2.6183	4.7	15.0	
3 Mevinphos	2.5000	2.5553	2.2	15.0	
4 Chlormefos	2.5000	2.5178	0.7	15.0	
5 Thionazin	2.5000	2.5324	1.3	15.0	
6 Demeton-O	0.8125	0.8678	6.8	15.0	
7 Ethoprop	2.5000	2.6293	5.2	15.0	
8 Naled	2.5000	2.0694	17.2	15.0	<-
9 Sulfotepp	2.5000	2.5566	2.3	15.0	
10 Phorate	2.5000	2.6975	7.9	15.0	
11 Dimethoate	2.5000	2.5266	1.1	15.0	
12 Demeton-S	1.7000	1.7817	4.8	15.0	
13 Simazine	2.5000	2.4581	1.7	15.0	
14 Atrazine	2.5000	2.4930	0.3	15.0	
15 propazine	2.5000	2.4326	2.7	15.0	
17 Disulfoton	2.5000	2.5643	2.6	15.0	
16 Diazinon	2.5000	2.4103	3.6	15.0	
18 Methyl Parathion	2.5000	2.3991	4.0	15.0	
19 Ronnel	2.5000	2.2540	9.8	15.0	
20 Malathion	2.5000	2.7626	10.5	15.0	
21 Fenthion	2.5000	2.4294	2.8	15.0	
22 Parathion	2.5000	2.4604	1.6	15.0	
23 Chlorpyrifos	2.5000	2.3019	7.9	15.0	
24 Trichloronate	2.5000	2.3516	5.9	15.0	
25 Anilazine	2.5000	1.7328	30.7	15.0	<-
148 Merphos-A (Merphos)	2.5000	3.7211	48.8	999.0	
26 Tetrachlorvinphos (Stirophos)	2.5000	2.3060	7.8	15.0	
28 Tokuthion	2.5000	2.5182	0.7	15.0	
149 Merphos-B (Merphos Oxone)	2.5000	1.8070	27.7	999.0	
29 Carbophenothion-methyl	2.5000	2.4120	3.5	15.0	
29 Fensulfothion	2.5000	2.6715	6.9	15.0	
30 Bolstar / Famphur	5.0000	5.2444	4.9	15.0	
32 Carbophenothion	2.5000	2.6493	6.0	15.0	
31 Triphenyl phosphate	2.5000	2.4960	0.2	15.0	
34 Phosmet	2.5000	2.5909	3.6	15.0	
32 EPN	2.5000	2.6546	6.2	15.0	
33 Azinphos-methyl	2.5000	2.6346	5.4	15.0	
38 Azinphos-ethyl	2.5000	2.5699	2.8	15.0	
36 Coumaphos	2.5000	2.5517	2.1	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.6495	6.0	15.0
27 Merphos	2.5000	2.6112	4.4	15.0

Average %D = 6.84

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\051F5101.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 23:21
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:21 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 51 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.266	4.271	(0.313)	578986	2.50000	2.624
	2 Dichlorvos	5.813	5.824	(0.426)	414637	2.50000	2.618
	3 Mevinphos	9.343	9.342	(0.685)	187380	2.50000	2.555
$	4 Chlormefos	9.458	9.462	(0.693)	516397	2.50000	2.518
	5 Thionazin	12.578	12.576	(0.922)	405097	2.50000	2.532
	6 Demeton-O	12.832	12.830	(0.941)	120396	0.81250	0.8678
	7 Ethoprop	13.147	13.144	(0.964)	406709	2.50000	2.629
	8 Naled	13.427	13.425	(0.984)	107525	2.50000	2.069
*	9 Tributylphosphate	13.641	13.639	(1.000)	290754	2.00000	
	10 Sulfotepp	14.101	14.101	(1.034)	534044	2.50000	2.557
	11 Phorate	14.187	14.188	(1.040)	383714	2.50000	2.697
	12 Dimethoate	14.371	14.362	(1.054)	378671	2.50000	2.526
	13 Demeton-S	14.635	14.628	(1.073)	231327	1.70000	1.782
	14 Simazine	14.759	14.753	(1.082)	122802	2.50000	2.458
	15 Atrazine	14.971	14.969	(1.097)	153022	2.50000	2.493
	16 propazine	15.152	15.151	(1.111)	154555	2.50000	2.433
	17 Disulfoton	15.832	15.829	(0.585)	309291	2.50000	2.564
	18 Diazinon	15.897	15.896	(0.588)	400181	2.50000	2.410
	19 Methyl Parathion	16.804	16.799	(0.621)	285461	2.50000	2.399
	20 Ronnel	17.421	17.419	(0.644)	285750	2.50000	2.254
	21 Malathion	18.091	18.088	(0.669)	255449	2.50000	2.763
	22 Fenthion	18.250	18.245	(0.675)	284523	2.50000	2.429
	23 Parathion	18.358	18.355	(0.679)	266045	2.50000	2.460
	24 Chlorpyrifos	18.414	18.411	(0.681)	405545	2.50000	2.302
	25 Trichloronate	18.918	18.918	(0.699)	357528	2.50000	2.352
	26 Anilazine	19.347	19.324	(0.715)	10366	2.50000	1.733
	27 Merphos-A (Merphos)	19.759	19.757	(0.730)	160042	2.50000	3.721
	28 Tetrachlorvinphos (Stirophos)	20.485	20.478	(0.757)	202713	2.50000	2.306
	29 Tokuthion	21.237	21.233	(0.785)	336912	2.50000	2.518
	30 Merphos-B (Merphos Oxone)	21.485	21.484	(0.794)	185709	2.50000	1.807
	31 Carbophenothion-methyl	22.221	22.213	(0.821)	235788	2.50000	2.412
	32 Fensulfothion	22.406	22.390	(0.828)	287696	2.50000	2.672
	33 Bolstar / Famphur	23.578	23.573	(0.871)	581246	5.00000	5.244

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.905	23.898	(0.884)	300351	2.50000	2.649
$	35 Triphenyl phosphate	25.225	25.224	(0.932)	229806	2.50000	2.496(A)
	36 Phosmet	25.756	25.743	(0.952)	224938	2.50000	2.591
	37 EPN	26.076	26.074	(0.964)	294462	2.50000	2.654
	38 Azinphos-methyl	26.575	26.569	(0.982)	237478	2.50000	2.635
*	39 TOCP	27.056	27.056	(1.000)	198800	2.00000	
	40 Azinphos-ethyl	27.163	27.155	(1.004)	260649	2.50000	2.570
	41 Coumaphos	27.687	27.680	(1.023)	227856	2.50000	2.552
M	42 Total Demeton				351723	2.50000	2.649
M	43 Merphos				345751	2.50000	2.611

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

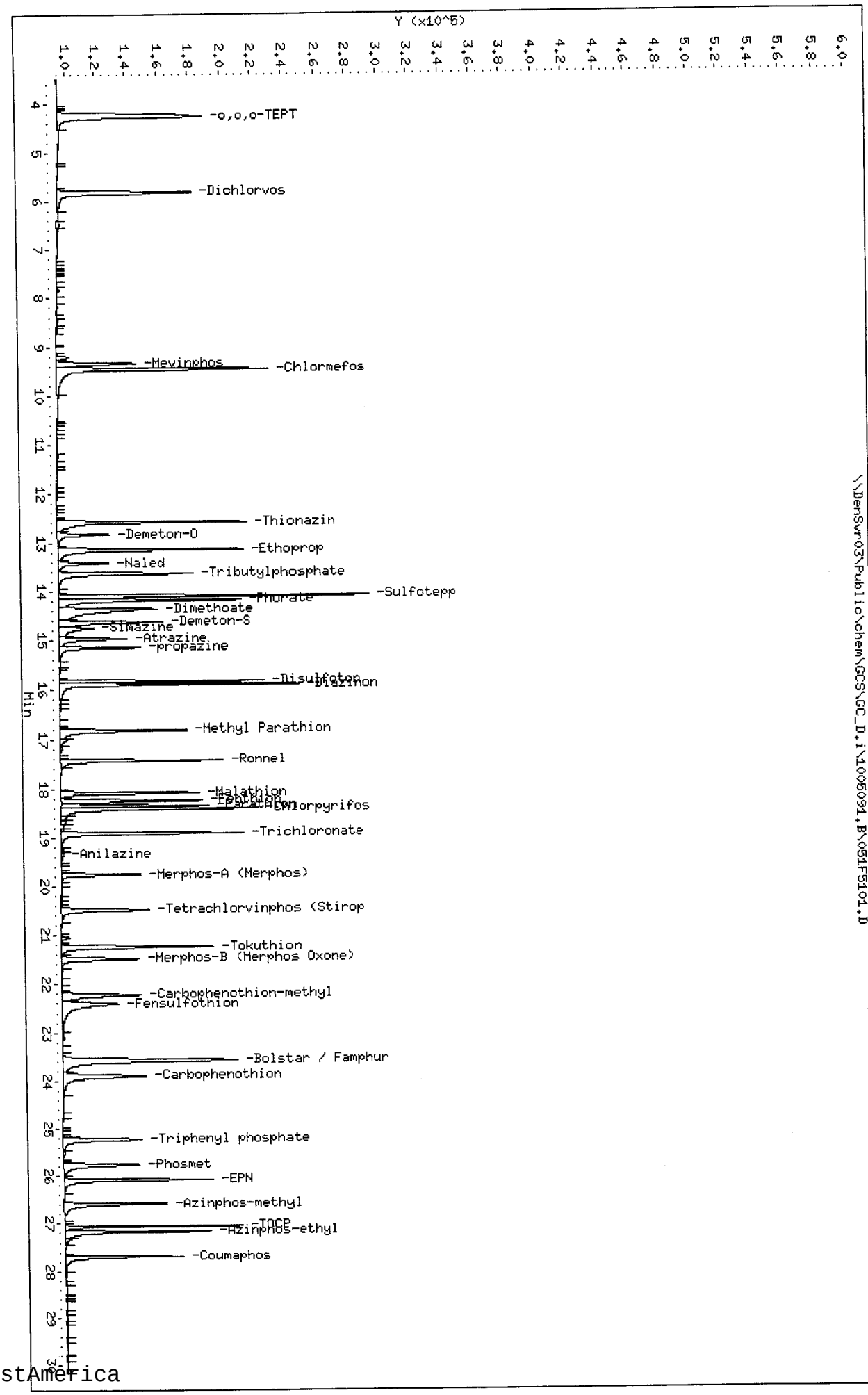
Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 11:49
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	350865	175433	701730	290754	-17.13
39 TOCP	227665	113833	455330	198800	-12.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.65	13.15	14.15	13.64	-0.04
39 TOCP	27.06	26.56	27.56	27.06	-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\GCS\GC_D,i\1005091,B\051F5101.D
Date : 06-OCT-2009 23:21
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-1MS

\\DenSvr03\Public\chem\GCS\GC_D,i\1005091,B\051F5101.D

Instrument: GC_D,i
Operator: TLM
Column diameter: 0.32

Page 4

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.5052	0.2	15.0	
2	Dichlorvos	2.5000	2.6507	6.0	15.0	
3	Chlormefos	2.5000	2.3546	5.8	15.0	
4	Mevinphos	2.5000	2.6421	5.7	15.0	
5	Demeton-O	0.8125	0.8114	0.1	15.0	
6	Thionazin	2.5000	2.4948	0.2	15.0	
7	Ethoprop	2.5000	2.6368	5.5	15.0	
10	Naled	2.5000	2.2433	10.3	15.0	
145	Sulfotepp	2.5000	2.6063	4.3	15.0	
8	Phorate	2.5000	2.7007	8.0	15.0	
15	Demeton-S	1.7000	1.7318	1.9	15.0	
10	Simazine	2.5000	2.1097	15.6	15.0	<-
13	Atrazine / Propazine	5.0000	4.4591	10.8	15.0	
16	Dimethoate	2.5000	2.3550	5.8	15.0	
11	Diazinon	2.5000	2.3304	6.8	15.0	
14	Disulfoton	2.5000	2.4210	3.2	15.0	
23	Methyl Parathion	2.5000	2.4495	2.0	15.0	
17	Ronnel	2.5000	2.4915	0.3	15.0	
24	Malathion	2.5000	2.5012	0.0	15.0	
18	Chlorpyrifos	2.5000	2.3868	4.5	15.0	
20	Trichloronate	2.5000	2.3024	7.9	15.0	
26	Parathion	2.5000	2.5391	1.6	15.0	
19	Fenthion	2.5000	2.5253	1.0	15.0	
151	Merphos-A (Merphos)	2.5000	3.3931	35.7	999.0	
21	Anilazine	2.5000	1.7286	30.9	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.5000	2.4953	0.2	15.0	
25	Tokuthion	2.5000	2.4805	0.8	15.0	
148	Merphos-B (Merphos oxone)	2.5000	1.7590	29.6	999.0	
28	Carbophenothion methyl	2.5000	2.5064	0.3	15.0	
30	Fensulfothion	2.5000	2.4826	0.7	15.0	
28	Bolstar	2.5000	2.4524	1.9	15.0	
30	Carbophenothion	2.5000	2.3705	5.2	15.0	
33	Famphur	2.5000	2.4494	2.0	15.0	
29	Triphenyl phosphate	2.5000	2.5296	1.2	15.0	
32	EPN	2.5000	2.5490	2.0	15.0	
34	Phosmet	2.5000	2.4210	3.2	15.0	
34	Azinphos-methyl	2.5000	2.6560	6.2	15.0	
35	Azinphos-ethyl	2.5000	2.6671	6.7	15.0	
36	Coumaphos	2.5000	2.4212	3.2	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.5432	1.7	15.0
22 Merphos	2.5000	2.6134	4.5	15.0

Average %D = 5.94

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\051F5101.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 23:21
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:27 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 51 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.717	6.724	(0.416)	429741	2.50000	2.505
	2 Dichlorvos	8.896	8.899	(0.551)	323760	2.50000	2.651
$	3 Chlormefos	12.831	12.830	(0.795)	275074	2.50000	2.354
	4 Mevinphos	12.945	12.944	(0.802)	193854	2.50000	2.642
	5 Demeton-O	15.895	15.894	(0.985)	58915	0.81250	0.8114
	6 Thionazin	16.021	16.019	(0.993)	263609	2.50000	2.495
*	7 Tributylphosphate	16.140	16.139	(1.000)	204831	2.00000	
	8 Ethoprop	16.284	16.282	(1.009)	326614	2.50000	2.637
	9 Naled	16.869	16.866	(1.045)	84840	2.50000	2.243
	10 Sulfotepp	17.182	17.181	(1.065)	370007	2.50000	2.606
	11 Phorate	17.219	17.219	(1.067)	259519	2.50000	2.701
	12 Demeton-S	17.908	17.906	(1.110)	144661	1.70000	1.732
	13 Simazine	18.320	18.319	(1.135)	38670	2.50000	2.110
	14 Atrazine / Propazine	18.386	18.384	(1.139)	174020	5.00000	4.459
	15 Dimethoate	18.512	18.510	(1.147)	254667	2.50000	2.355
	16 Diazinon	18.911	18.910	(1.172)	236388	2.50000	2.330
	17 Disulfoton	19.174	19.173	(1.188)	249071	2.50000	2.421
	18 Methyl Parathion	21.075	21.074	(0.735)	192438	2.50000	2.449(A)
	19 Ronnel	21.162	21.160	(0.738)	239181	2.50000	2.492
	20 Malathion	22.421	22.420	(0.782)	174495	2.50000	2.501
	21 Chlorpyrifos	22.577	22.576	(0.787)	214136	2.50000	2.387
	22 Trichloronate	22.751	22.749	(0.793)	220448	2.50000	2.302
	23 Parathion	22.802	22.801	(0.795)	221831	2.50000	2.539
	24 Fenthion	22.871	22.869	(0.797)	273370	2.50000	2.525
	25 Merphos-A (Merphos)	23.402	23.403	(0.816)	131852	2.50000	3.393
	26 Anilazine	24.402	24.386	(0.851)	11339	2.50000	1.728
	27 Tetrachlorvinphos (stirophos)	25.823	25.821	(0.900)	149560	2.50000	2.495
	28 Tokuthion	26.004	26.004	(0.907)	229399	2.50000	2.480
	29 Merphos-B (Merphos oxone)	26.139	26.137	(0.911)	142811	2.50000	1.759
	30 Carbophenothion methyl	26.972	26.973	(0.940)	173707	2.50000	2.506
	31 Fensulfothion	27.211	27.209	(0.949)	151246	2.50000	2.483
	32 Bolstar	27.322	27.322	(0.953)	199312	2.50000	2.452
	33 Carbophenothion	27.437	27.436	(0.957)	168055	2.50000	2.370

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.620	27.620	(0.963)	173097	2.50000	2.449
$	35 Triphenyl phosphate	27.912	27.912	(0.973)	152915	2.50000	2.530
	36 EPN	28.218	28.219	(0.984)	190069	2.50000	2.549
	37 Phosmet	28.346	28.345	(0.988)	155527	2.50000	2.421
*	38 TOCP	28.680	28.680	(1.000)	153886	2.00000	
	39 Azinphos-methyl	28.793	28.792	(1.004)	160239	2.50000	2.656
	40 Azinphos-ethyl	29.102	29.102	(1.015)	168091	2.50000	2.667
	41 Coumaphos	29.429	29.428	(1.026)	144854	2.50000	2.421
M	42 Total Demeton				203576	2.50000	2.543
M	43 Merphos				274663	2.50000	2.613(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

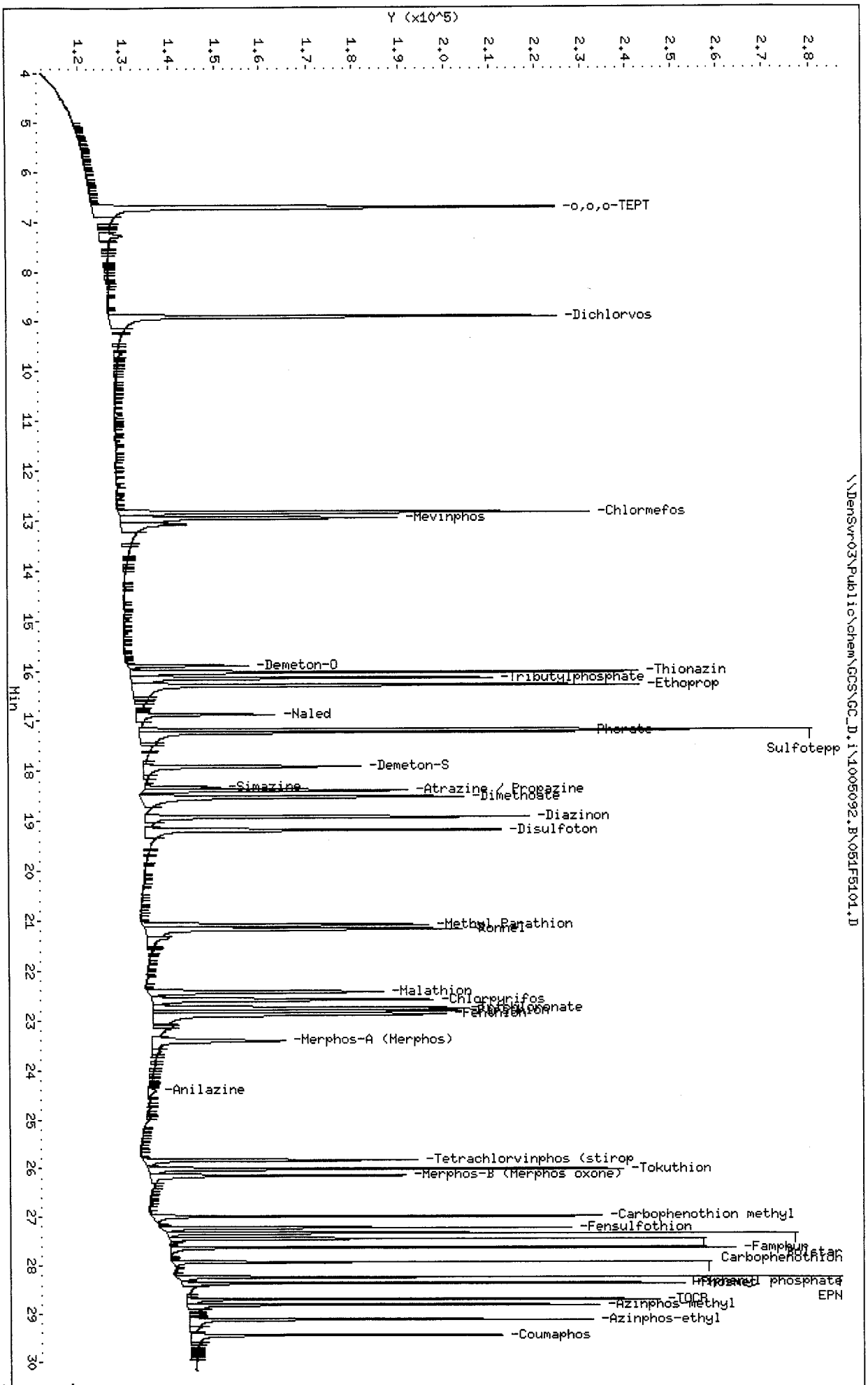
Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 11:49
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	210740	105370	421480	204831	-2.80
38 TOCP	167368	83684	334736	153886	-8.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.14	-0.02
38 TOCP	28.68	28.18	29.18	28.68	-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\1005092.B\051F5101.D
Date : 06-OCT-2009 23:21
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-OPPest

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

GC SEMIVOLATILE SAMPLE DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\037F3701.D
Lab Smp Id: LLVJ01AA Client Smp ID: BLANK
Inj Date : 06-OCT-2009 14:51
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AA,MB
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 37 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)	CONCENTRATIONS FINAL (ug/L)
1	o,o,o-TEPT	Compound Not Detected.					
2	Dichlorvos	Compound Not Detected.					
3	Mevinphos	Compound Not Detected.					
$ 4	Chlormefos	9.459	9.462	(0.692)	229958	0.73225	1.464
5	Thionazin	12.565	12.576	(0.920)	91	0.09031	0.1806
6	Demeton-O	Compound Not Detected.					
7	Ethoprop	Compound Not Detected.					
8	Naled	Compound Not Detected.					
* 9	Tributylphosphate	13.662	13.639	(1.000)	445191	2.00000	
10	Sulfotepp	Compound Not Detected.					
11	Phorate	Compound Not Detected.					
12	Dimethoate	Compound Not Detected.					
13	Demeton-S	Compound Not Detected.					
14	Simazine	Compound Not Detected.					
15	Atrazine	Compound Not Detected.					
16	propazine	Compound Not Detected.					
17	Disulfoton	15.861	15.829	(0.586)	1115	0.11167	0.2233
18	Diazinon	Compound Not Detected.					
19	Methyl Parathion	Compound Not Detected.					
20	Ronnel	17.386	17.419	(0.643)	272	0.07419	0.1484
21	Malathion	Compound Not Detected.					
22	Fenthion	Compound Not Detected.					

RT

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	Compound Not Detected.					
	24 Chlorpyrifos	Compound Not Detected.					
	25 Trichloronate	Compound Not Detected.					
	26 Anilazine	19.340	19.324	(0.715)	120	0.28237	0.5647
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.466	20.478	(0.756)	1011	0.14986	0.2997 NC
	29 Tokuthion	Compound Not Detected.					
	30 Merphos-B (Merphos Oxone)	21.455	21.484	(0.793)	553	0.00359	0.007181
	31 Carbophenothion-methyl	Compound Not Detected.					
	32 Fensulfothion	Compound Not Detected.					
	33 Bolstar / Famphur	Compound Not Detected.					
	34 Carbophenothion	Compound Not Detected.					
$	35 Triphenyl phosphate	25.254	25.224	(0.933)	120439	0.90288	1.806
	36 Phosmet	Compound Not Detected.					
	37 EPN	Compound Not Detected.					
	38 Azinphos-methyl	Compound Not Detected.					
*	39 TOCP	27.060	27.056	(1.000)	297937	2.00000	
	40 Azinphos-ethyl	Compound Not Detected.					
	41 Coumaphos	Compound Not Detected.					
M	42 Total Demeton	Compound Not Detected.					
M	43 Merphos				553	0.02777	0.05554

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 037F3701.D
Lab Smp Id: LLVJ01AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	445191	56.75
39 TOCP	197231	98616	394462	297937	51.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.19
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AA
Client Smp ID: BLANK
Level: LOW
Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

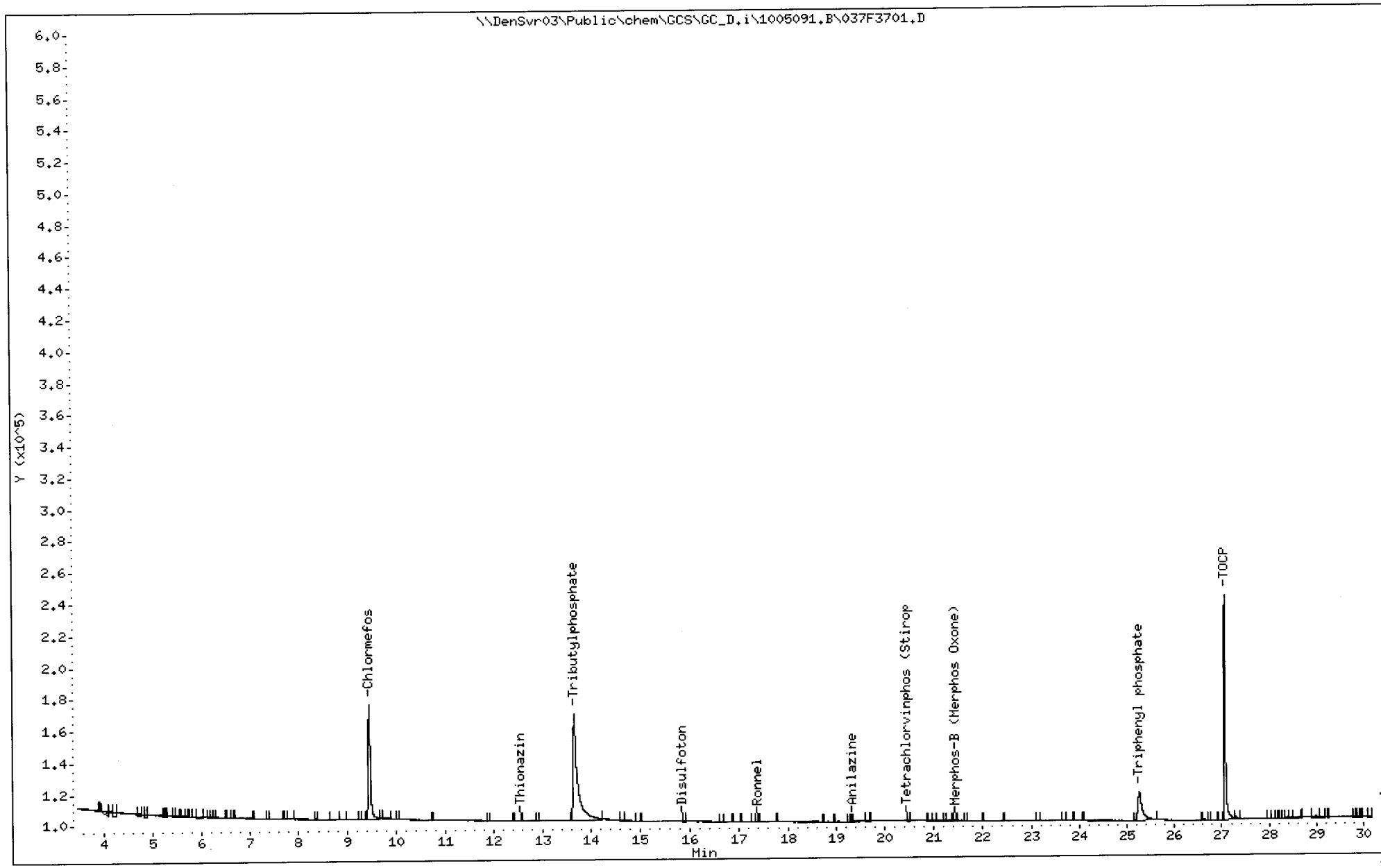
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	2.000	1.464	73.23	48-114
$ 35 Triphenyl phosphat	2.000	1.806	90.29	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\037F3701.D
Date : 06-OCT-2009 14:51
Client ID: BLANK
Sample Info: LLVJ01AA,MB

Instrument: GC_D.i

Operator: TLW
Column diameter: 0.32

Column phase: RTx-1MS



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\037F3701.D
Lab Smp Id: LLVJ01AA Client Smp ID: BLANK
Inj Date : 06-OCT-2009 14:51
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AA,MB
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 37 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
$	3 Chlormefos	12.834	12.830	(0.795)	141501	0.89840	1.797
	4 Mevinphos	Compound Not Detected.					
	5 Demeton-O	Compound Not Detected.					
	6 Thionazin	Compound Not Detected.					
*	7 Tributylphosphate	16.152	16.139	(1.000)	276150	2.00000	
	8 Ethoprop	Compound Not Detected.					
	9 Naled	16.915	16.866	(1.047)	536	0.11453	0.2291
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Demeton-S	17.916	17.906	(1.109)	1136	0.03564	0.07128
	13 Simazine	18.327	18.319	(1.135)	110	0.33722	0.6744
	14 Atrazine / Propazine	Compound Not Detected.					
	15 Dimethoate	18.516	18.510	(1.146)	217	0.11603	0.2320
	16 Diazinon	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Methyl Parathion	21.073	21.074	(0.735)	446	0.10417	0.2083(a)
	19 Ronnel	Compound Not Detected.					
	20 Malathion	22.433	22.420	(0.782)	62	0.03470	0.06939(a)
	21 Chlorpyrifos	Compound Not Detected.					
	22 Trichloronate	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.785	22.801	(0.794)	281	0.05963	0.1192(a)
	24 Fenthion	Compound Not Detected.					
	25 Merphos-A (Merphos)	23.384	23.403	(0.815)	196	0.75529	1.510
	26 Anilazine	24.318	24.386	(0.848)	1558	0.30633	0.6126
	27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
	28 Tokuthion	Compound Not Detected.					
	29 Merphos-B (Merphos oxone)	26.144	26.137	(0.911)	221	0.00196	0.003914(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	27.916	27.912	(0.973)	78414	0.93266	1.865
	36 EPN	Compound Not Detected.					
	37 Phosmet	Compound Not Detected.					
*	38 TOCP	28.684	28.680	(1.000)	214027	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: 037F3701.D
Lab Smp Id: LLVJ01AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	276150	32.87
38 TOCP	159861	79931	319722	214027	33.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.10
38 TOCP	28.68	28.18	29.18	28.68	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.

TestAmerica

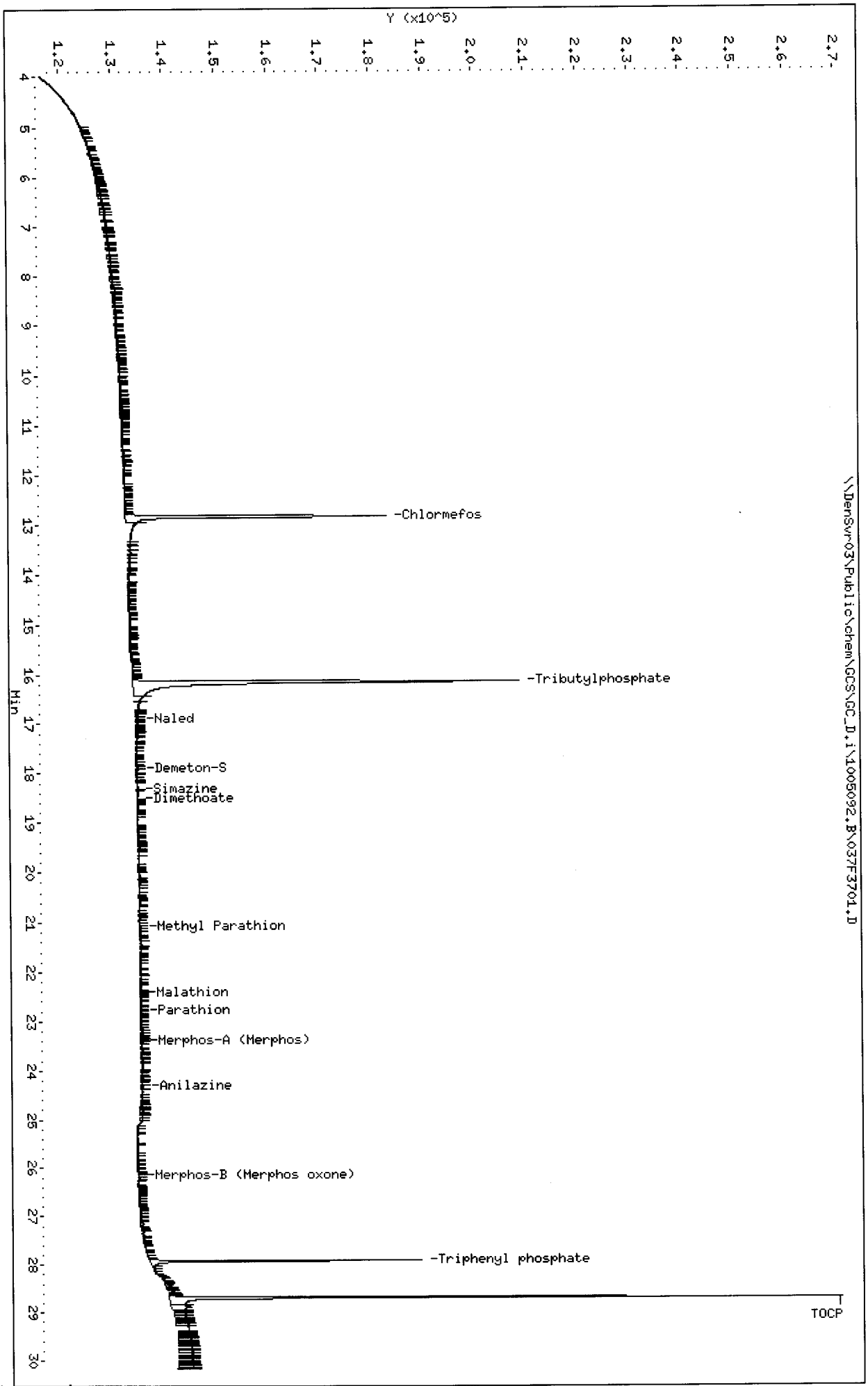
RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AA
Client Smp ID: BLANK
Level: LOW
Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	2.000	1.797	89.84	48-114
$ 35 Triphenyl phosphat	2.000	1.865	93.27	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\037F3701.D
Date : 06-OCT-2009 14:51
Client ID: BLANK
Sample Info: LLWJ01AA,MB
Column phase: RTx-OPPest

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\038F3801.D
Lab Smp Id: LLVJ01AC Client Smp ID: LCS
Inj Date : 06-OCT-2009 15:27
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AC,LCS
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 38 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	4.226	4.271	(0.310)	960539	2.50300	5.006(R)
	2 Dichlorvos	5.810	5.824	(0.426)	555891	2.01839	4.037
	3 Mevinphos	9.360	9.342	(0.686)	158213	1.32555	2.651
$	4 Chlormefos	9.460	9.462	(0.693)	388130	1.08810	2.176
	5 Thionazin	12.586	12.576	(0.922)	500282	1.82432	3.649
	6 Demeton-O	12.838	12.830	(0.940)	375123	1.54964	3.099
	7 Ethoprop	13.155	13.144	(0.964)	496846	1.85652	3.713
	8 Naled	13.435	13.425	(0.984)	149264	1.68114	3.362
*	9 Tributylphosphate	13.654	13.639	(1.000)	505670	2.00000	
	10 Sulfotepp	14.105	14.101	(1.033)	590499	1.62541	3.251
	11 Phorate	14.193	14.188	(1.039)	387044	1.50166	3.003
	12 Dimethoate	14.395	14.362	(1.054)	371330	1.51425	3.028
	13 Demeton-S	14.647	14.628	(1.073)	43383	0.13881	0.2776(R)
	14 Simazine	14.773	14.753	(1.082)	158759	1.82720	3.654
	15 Atrazine	14.982	14.969	(1.097)	175777	1.64658	3.293
	16 propazine	15.160	15.151	(1.110)	183559	1.66121	3.322
	17 Disulfoton	15.843	15.829	(0.585)	321634	1.78575	3.571
	18 Diazinon	15.905	15.896	(0.588)	490677	1.94202	3.884
	19 Methyl Parathion	16.817	16.799	(0.621)	335989	1.87371	3.747
	20 Ronnel	17.430	17.419	(0.644)	326648	1.71119	3.422
	21 Malathion	18.100	18.088	(0.669)	262258	1.86372	3.727
	22 Fenthion	18.261	18.245	(0.675)	302454	1.72210	3.444

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	18.370	18.355	(0.679)	268060	1.69519	3.390
	24 Chlorpyrifos	18.420	18.411	(0.681)	509030	1.89855	3.797
	25 Trichloronate	18.926	18.918	(0.699)	362490	1.59064	3.181
	26 Anilazine	19.306	19.324	(0.713)	3599	0.60455	1.209(R)
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.494	20.478	(0.757)	204705	1.60248	3.205
	29 Tokuthion	21.247	21.233	(0.785)	369993	1.82895	3.658
	30 Merphos-B (Merphos Oxone)	21.496	21.484	(0.794)	373712	2.38939	4.779
	31 Carbophenothion-methyl	22.240	22.213	(0.822)	245871	1.67856	3.357
	32 Fensulfothion	22.430	22.390	(0.829)	284649	1.77083	3.542
	33 Bolstar / Famphur	23.596	23.573	(0.872)	652661	3.89327	7.786
	34 Carbophenothion	23.916	23.898	(0.884)	310233	1.80520	3.610
$	35 Triphenyl phosphate	25.245	25.224	(0.933)	133497	0.98132	1.963
	36 Phosmet	25.764	25.743	(0.952)	254853	1.94500	3.890
	37 EPN	26.085	26.074	(0.964)	317968	1.88915	3.778
	38 Azinphos-methyl	26.585	26.569	(0.982)	240103	1.77623	3.552
*	39 TOCP	27.060	27.056	(1.000)	302539	2.00000	
	40 Azinphos-ethyl	27.169	27.155	(1.004)	277323	1.79674	3.593
	41 Coumaphos	27.690	27.680	(1.023)	241894	1.79933	3.599
M	42 Total Demeton				418506	1.68845	3.377
M	43 Merphos				373712	1.86183	3.724

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 038F3801.D
Lab Smp Id: LLVJ01AC
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	505670	78.04
39 TOCP	197231	98616	394462	302539	53.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.13
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

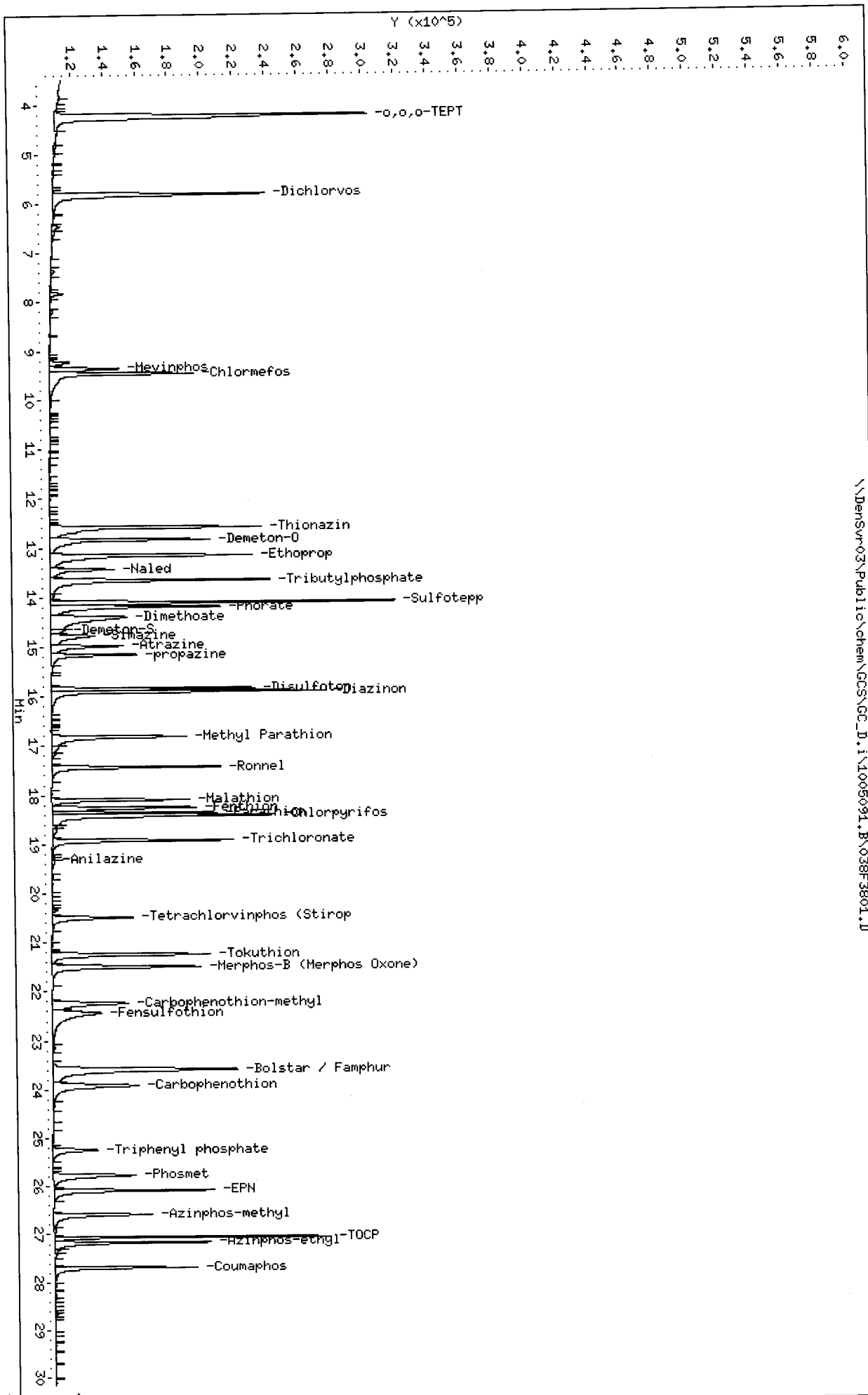
		SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1	o,o,o-TEPT	4.000	5.006	125.15*	36-119
	2	Dichlorvos	4.000	4.037	100.92	50-120
	3	Mevinphos	4.000	2.651	66.28	35-108
$	4	Chlormefos	2.000	2.176	108.81	48-114
	5	Thionazin	4.000	3.649	91.22	65-116
	6	Demeton-O	2.792	3.099	111.01	36-119
	7	Ethoprop	4.000	3.713	92.83	65-108
	8	Naled	4.000	3.362	84.06	36-119
	10	Sulfotepp	4.000	3.251	81.27	69-103
	11	Phorate	4.000	3.003	75.08	62-104
	12	Dimethoate	4.000	3.028	75.71	28-115
	13	Demeton-S	1.208	0.2776	22.98*	36-119
	14	Simazine	4.000	3.654	91.36	47-109
	15	Atrazine	4.000	3.293	82.33	36-119
	16	propazine	4.000	3.322	83.06	36-119
	17	Disulfoton	4.000	3.571	89.29	61-103
	18	Diazinon	4.000	3.884	97.10	36-119
	19	Methyl Parathion	4.000	3.747	93.69	68-119
	20	Ronnel	4.000	3.422	85.56	62-115
	21	Malathion	4.000	3.727	93.19	67-115
	22	Fenthion	4.000	3.444	86.10	36-119
	23	Parathion	4.000	3.390	84.76	36-119
	24	Chlorpyrifos	4.000	3.797	94.93	66-101
	25	Trichloronate	4.000	3.181	79.53	36-119
	26	Anilazine	4.000	1.209	30.23*	47-115
	28	Tetrachlorvinphos	4.000	3.205	80.12	36-119
	29	Tokuthion	4.000	3.658	91.45	36-119
	31	Carbophenothion-me	4.000	3.357	83.93	36-119
	32	Fensulfothion	4.000	3.542	88.54	61-115
	33	Bolstar / Famphur	8.000	7.786	97.33	36-119
	34	Carbophenothion	4.000	3.610	90.26	50-150
$	35	Triphenyl phosphat	2.000	1.963	98.13	50-150
	36	Phosmet	4.000	3.890	97.25	50-150
	37	EPN	4.000	3.778	94.46	36-119
	38	Azinphos-methyl	4.000	3.552	88.81	55-115
	40	Azinphos-ethyl	4.000	3.593	89.84	36-119
	41	Coumaphos	4.000	3.599	89.97	62-115
M	42	Total Demeton	4.000	3.377	84.42	47-115
M	43	Merphos	4.000	3.724	93.09	36-119

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	2.000	2.176	108.81	48-114
$ 35 Triphenyl phosphat	2.000	1.963	98.13	50-150



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Date : 06-OCT-2009 15:27
Client ID: LCS
Sample Info: LLWJ01AC,LCS
Column phase: RTx-1MS

\\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\038F3801.D

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\038F3801.D
Lab Smp Id: LLVJ01AC Client Smp ID: LCS
Inj Date : 06-OCT-2009 15:27
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AC,LCS
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 38 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	6.712	6.724	(0.416)	513537	2.03767	4.075
	2 Dichlorvos	8.900	8.899	(0.551)	364244	2.02983	4.060
$	3 Chlormefos	12.835	12.830	(0.795)	141118	0.82219	1.644
	4 Mevinphos	12.955	12.944	(0.802)	133715	1.24047	2.481
	5 Demeton-O	15.900	15.894	(0.985)	168667	1.58105	3.162
	6 Thionazin	16.026	16.019	(0.992)	286196	1.84358	3.687
*	7 Tributylphosphate	16.148	16.139	(1.000)	300930	2.00000	
	8 Ethoprop	16.290	16.282	(1.009)	313353	1.62643	3.253
	9 Naled	16.876	16.866	(1.045)	90404	1.65577	3.312
	10 Sulfotepp	17.190	17.181	(1.065)	335144	1.52182	3.044(M)
	11 Phorate	17.213	17.219	(1.066)	230485	1.56620	3.132(M)
	12 Demeton-S	17.920	17.906	(1.110)	6567	0.07842	0.1568(R)
	13 Simazine	18.330	18.319	(1.135)	51656	1.94848	3.897
	14 Atrazine / Propazine	18.394	18.384	(1.139)	182756	3.20082	6.402
	15 Dimethoate	18.526	18.510	(1.147)	217842	1.41903	2.838
	16 Diazinon	18.920	18.910	(1.172)	236461	1.58672	3.173
	17 Disulfoton	19.184	19.173	(1.188)	229749	1.52003	3.040
	18 Methyl Parathion	21.086	21.074	(0.735)	185470	1.81584	3.632
	19 Ronnel	21.169	21.160	(0.738)	248443	1.96097	3.922
	20 Malathion	22.430	22.420	(0.782)	153352	1.67694	3.354
	21 Chlorpyrifos	22.587	22.576	(0.787)	207231	1.76257	3.525
	22 Trichloronate	22.761	22.749	(0.794)	192047	1.53974	3.079

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.812	22.801	(0.795)	223089	1.94845	3.897
	24 Fenthion	22.882	22.869	(0.798)	244032	1.70808	3.416
	25 Merphos-A (Merphos)	Compound Not Detected.					
	26 Anilazine	24.406	24.386	(0.851)	5032	0.68108	1.362(R)
	27 Tetrachlorvinphos (stirophos)	25.830	25.821	(0.900)	124858	1.63910	3.278
	28 Tokuthion	26.010	26.004	(0.907)	213501	1.74925	3.498
	29 Merphos-B (Merphos oxone)	26.141	26.137	(0.911)	211450	1.97337	3.947
	30 Carbophenothion methyl	26.979	26.973	(0.941)	158702	1.74706	3.494
	31 Fensulfothion	27.216	27.209	(0.949)	134321	1.68678	3.374
	32 Bolstar	27.326	27.322	(0.953)	206821	1.92820	3.856
	33 Carbophenothion	27.440	27.436	(0.957)	168695	1.81029	3.620
	34 Famphur	27.624	27.620	(0.963)	172453	1.86337	3.727
$	35 Triphenyl phosphate	27.915	27.912	(0.973)	84486	1.05898	2.118
	36 EPN	28.223	28.219	(0.984)	184541	1.87524	3.750
	37 Phosmet	28.350	28.345	(0.988)	158650	1.87126	3.742
*	38 TOCP	28.684	28.680	(1.000)	203093	2.00000	
	39 Azinphos-methyl	28.799	28.792	(1.004)	148501	1.83144	3.663
	40 Azinphos-ethyl	29.108	29.102	(1.015)	159125	1.85179	3.704
	41 Coumaphos	29.434	29.428	(1.026)	139024	1.71578	3.432
M	42 Total Demeton				175234	1.65947	3.319
M	43 Merphos				211450	1.53231	3.065

QC Flag Legend

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: 038F3801.D
Lab Smp Id: LLVJ01AC
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	300930	44.80
38 TOCP	159861	79931	319722	203093	27.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.07
38 TOCP	28.68	28.18	29.18	28.68	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.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

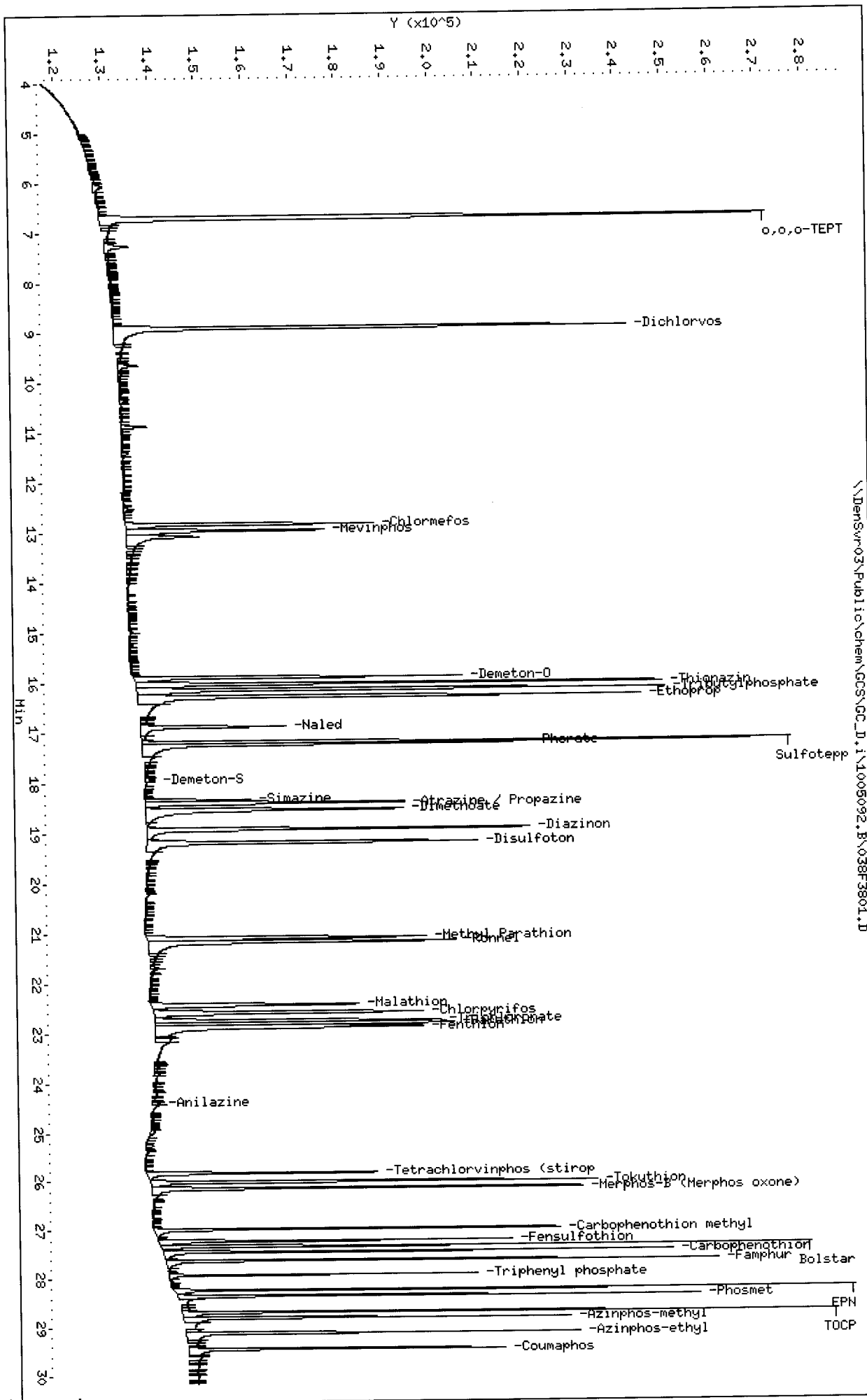
	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1 o,o,o-TEPT	4.000	4.075	101.88	36-119
	2 Dichlorvos	4.000	4.060	101.49	50-120
$	3 Chlormefos	2.000	1.644	82.22	48-114
	4 Mevinphos	4.000	2.481	62.02	35-108
	5 Demeton-O	2.800	3.162	112.93	36-119
	6 Thionazin	4.000	3.687	92.18	65-116
	8 Ethoprop	4.000	3.253	81.32	65-108
	9 Naled	4.000	3.312	82.79	36-119
	10 Sulfotepp	4.000	3.044	76.09	69-103
	11 Phorate	4.000	3.132	78.31	62-104
	12 Demeton-S	1.200	0.1568	13.07*	36-119
	13 Simazine	4.000	3.897	97.42	47-109
	14 Atrazine / Propazi	8.000	6.402	80.02	36-119
	15 Dimethoate	4.000	2.838	70.95	28-115
	16 Diazinon	4.000	3.173	79.34	36-119
	17 Disulfoton	4.000	3.040	76.00	61-103
	18 Methyl Parathion	4.000	3.632	90.79	68-119
	19 Ronnel	4.000	3.922	98.05	62-115
	20 Malathion	4.000	3.354	83.85	67-115
	21 Chlorpyrifos	4.000	3.525	88.13	66-101
	22 Trichloronate	4.000	3.079	76.99	36-119
	23 Parathion	4.000	3.897	97.42	36-119
	24 Fenthion	4.000	3.416	85.40	36-119
	26 Anilazine	4.000	1.362	34.05*	47-115
	27 Tetrachlorvinphos	4.000	3.278	81.96	36-119
	28 Tokuthion	4.000	3.498	87.46	36-119
	30 Carbophenothion me	4.000	3.494	87.35	36-119
	31 Fensulfothion	4.000	3.374	84.34	61-115
	32 Bolstar	4.000	3.856	96.41	36-119
	33 Carbophenothion	4.000	3.620	90.51	36-119
	34 Famphur	4.000	3.727	93.17	36-119
$	35 Triphenyl phosphat	2.000	2.118	105.90	36-119
	36 EPN	4.000	3.750	93.76	36-119
	37 Phosmet	4.000	3.742	93.56	36-119
	39 Azinphos-methyl	4.000	3.663	91.57	55-115
	40 Azinphos-ethyl	4.000	3.704	92.59	36-119
	41 Coumaphos	4.000	3.432	85.79	62-115
M	42 Total Demeton	4.000	3.319	82.97	47-115
M	43 Merphos	4.000	3.065	76.62	36-119

TestAmerica

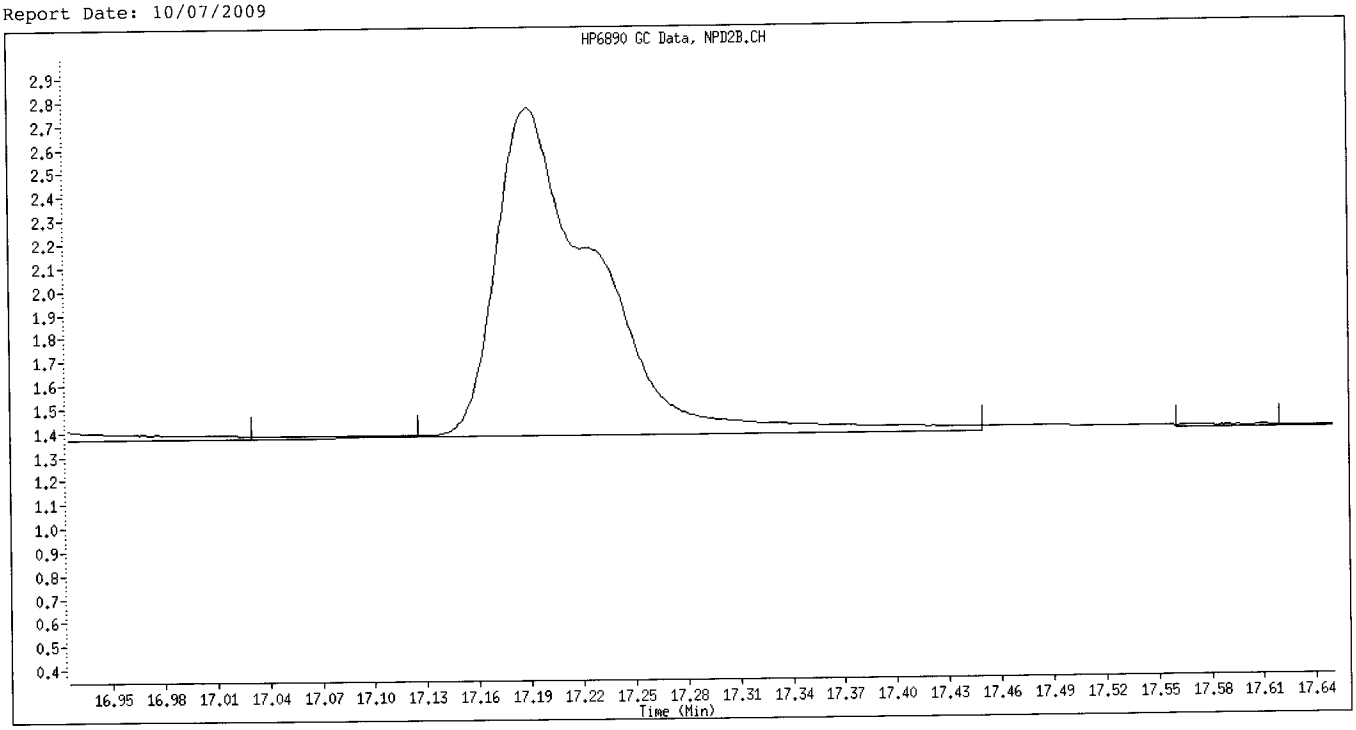
RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

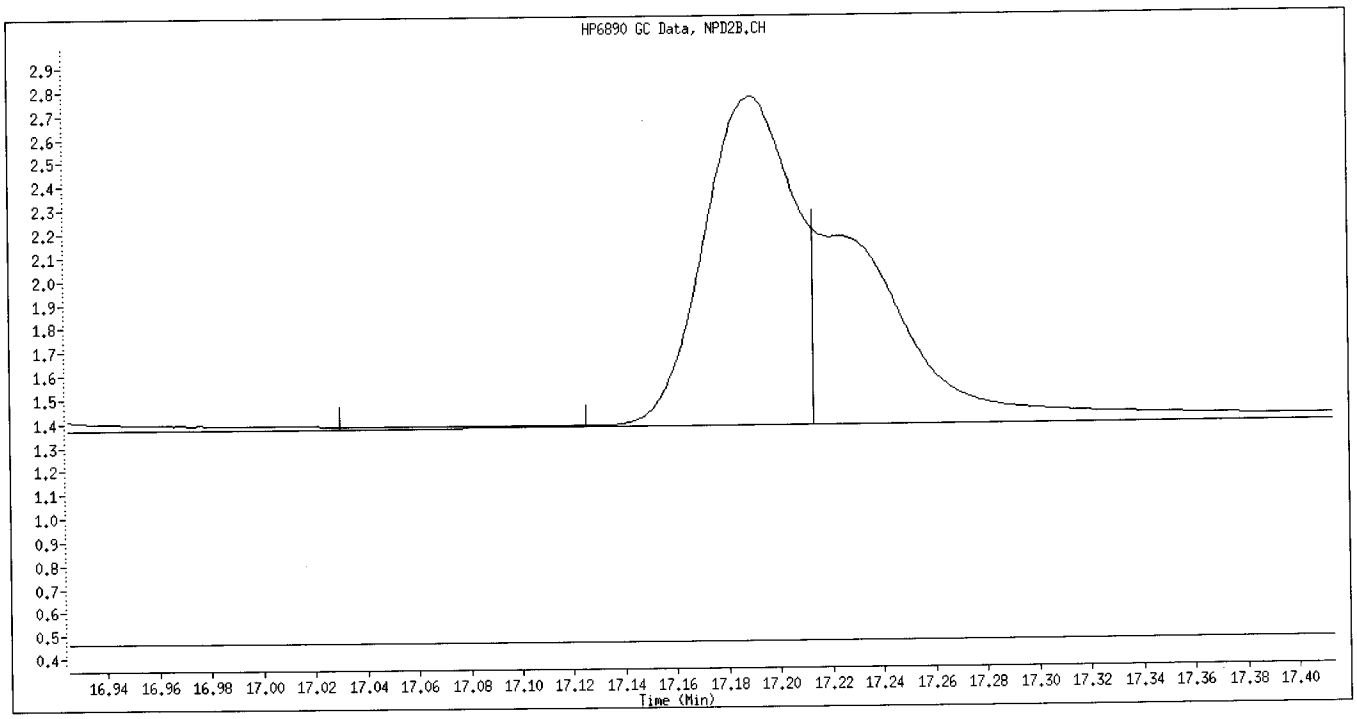
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	2.000	1.644	82.22	48-114
$ 35 Triphenyl phosphat	2.000	2.118	105.90	50-150


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\1005092,B\038F3801.D
Date : 06-OCT-2009 15:27
Client ID: LCS
Sample Info: LLVJ01AC,LCS
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\1005092,B\038F3801.D
Y (x10^5)
Min
o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Thionazin
-Ethoprop
-Naled
Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Fenthion
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Carbophenothion
-Famphur
Bolstar
-Triphenyl phosphate
-Phosmet
EPN
-Azinphos-methyl
TOCP
-Azinphos-ethyl
-Coumaphos

Data File Name: 038F3801.D
Inj. Date and Time: 06-OCT-2009 15:27
Instrument ID: GC_D.i
Client ID: LCS
Compound Name: Sulfotepp
CAS #:
Report Date: 10/07/2009



Original Integration

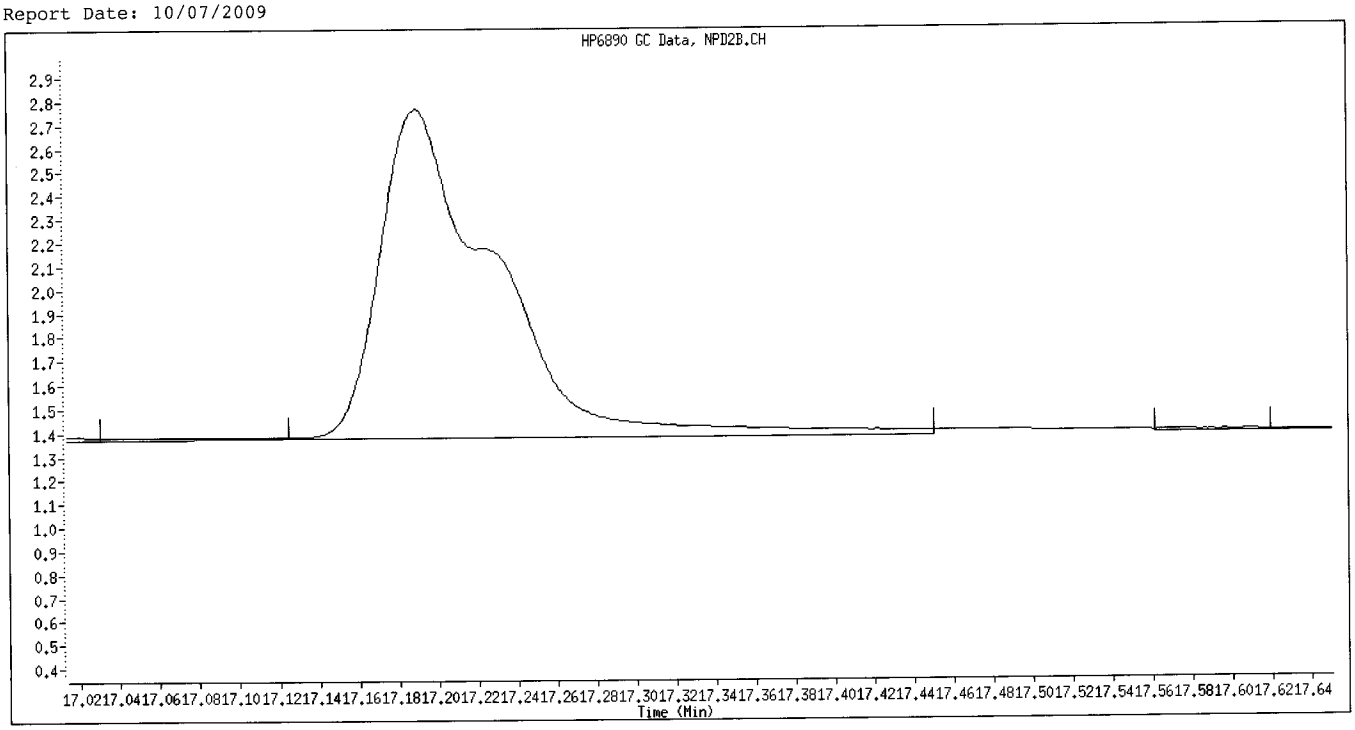


Manual Integration

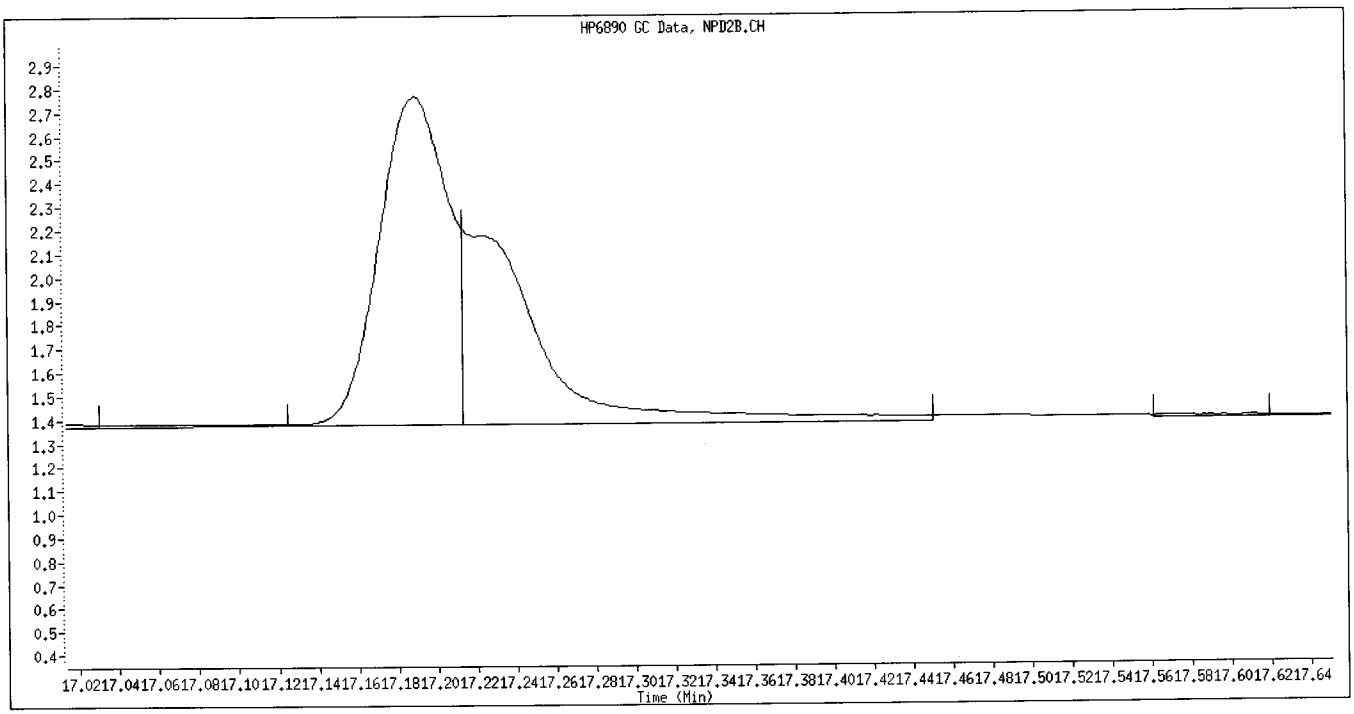
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

10/7

Data File Name: 038F3801.D
Inj. Date and Time: 06-OCT-2009 15:27
Instrument ID: GC_D.i
Client ID: LCS
Compound Name: Phorate
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\039F3901.D
Lab Smp Id: LLVJ01AD Client Smp ID: LCSD
Inj Date : 06-OCT-2009 16:04
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AD,LCSD
Misc Info : IS GSV1076-09
Comment   :
Method   : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:21 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 39 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	4.226	4.271	(0.310)	791844	2.27065	4.541(M)
	2 Dichlorvos	5.814	5.824	(0.426)	497337	1.98715	3.974
	3 Mevinphos	9.362	9.342	(0.686)	143080	1.31996	2.640
$	4 Chlormefos	9.461	9.462	(0.693)	350688	1.08187	2.164
	5 Thionazin	12.584	12.576	(0.922)	472047	1.89080	3.782
	6 Demeton-O	12.838	12.830	(0.940)	350230	1.59195	3.184
	7 Ethoprop	13.154	13.144	(0.963)	472385	1.94090	3.882
	8 Naled	13.434	13.425	(0.984)	130392	1.62172	3.243
*	9 Tributylphosphate	13.653	13.639	(1.000)	459518	2.00000	
	10 Sulfotepp	14.106	14.101	(1.033)	559271	1.69407	3.388
	11 Phorate	14.194	14.188	(1.040)	355143	1.51774	3.035
	12 Dimethoate	14.395	14.362	(1.054)	331404	1.49085	2.982
	13 Demeton-S	14.643	14.628	(1.073)	40283	0.14314	0.2863(R)
	14 Simazine	14.773	14.753	(1.082)	135591	1.71729	3.434
	15 Atrazine	14.979	14.969	(1.097)	157217	1.62063	3.241
	16 propazine	15.159	15.151	(1.110)	165358	1.64679	3.294
	17 Disulfoton	15.841	15.829	(0.585)	304913	1.79331	3.587
	18 Diazinon	15.904	15.896	(0.588)	465874	1.95372	3.907
	19 Methyl Parathion	16.816	16.799	(0.621)	323673	1.91091	3.822
	20 Ronnel	17.431	17.419	(0.644)	320963	1.77860	3.557
	21 Malathion	18.098	18.088	(0.669)	258431	1.94595	3.892
	22 Fenthion	18.258	18.245	(0.675)	296681	1.78660	3.573

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	18.369	18.355	(0.679)	268306	1.78599	3.572
	24 Chlorpyrifos	18.423	18.411	(0.681)	507930	2.00733	4.015
	25 Trichloronate	18.927	18.918	(0.699)	352610	1.63728	3.274
	26 Anilazine	19.307	19.324	(0.713)	3599	0.62442	1.249(R)
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.494	20.478	(0.757)	204681	1.68627	3.372
	29 Tokuthion	21.244	21.233	(0.785)	361413	1.89151	3.783
	30 Merphos-B (Merphos Oxone)	21.494	21.484	(0.794)	368778	2.49834	4.997
	31 Carbophenothion-methyl	22.237	22.213	(0.822)	241621	1.74444	3.489
	32 Fensulfothion	22.428	22.390	(0.829)	276513	1.81987	3.640
	33 Bolstar / Famphur	23.589	23.573	(0.872)	634617	4.00845	8.017
	34 Carbophenothion	23.915	23.898	(0.884)	302019	1.86142	3.723
$	35 Triphenyl phosphate	25.243	25.224	(0.933)	129209	1.00522	2.010
	36 Phosmet	25.767	25.743	(0.952)	251488	2.03081	4.062
	37 EPN	26.084	26.074	(0.964)	318062	2.00116	4.002
	38 Azinphos-methyl	26.584	26.569	(0.982)	227539	1.78326	3.566
*	39 TOCP	27.060	27.056	(1.000)	285526	2.00000	
	40 Azinphos-ethyl	27.167	27.155	(1.004)	267930	1.83931	3.679
	41 Coumaphos	27.690	27.680	(1.023)	233264	1.83714	3.674
M	42 Total Demeton				390513	1.73509	3.470
M	43 Merphos				368778	1.94558	3.891

QC Flag Legend

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: 039F3901.D
Lab Smp Id: LLVJ01AD
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 23:21
Client Smp ID: LCSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	290754	145377	581508	459518	58.04
39 TOCP	198800	99400	397600	285526	43.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.09
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LLVJ01AD
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Client SDG: D9J010000
Fraction: SV
Client Smp ID: LCSD
Operator: TLW
SampleType: LCSD
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1 o,o,o-TEPT	4.000	4.541	113.53	36-119
	2 Dichlorvos	4.000	3.974	99.36	50-120
	3 Mevinphos	4.000	2.640	66.00	35-108
$	4 Chlormefos	2.000	2.164	108.19	48-114
	5 Thionazin	4.000	3.782	94.54	65-116
	6 Demeton-O	2.792	3.184	114.04	36-119
	7 Ethoprop	4.000	3.882	97.05	65-108
	8 Naled	4.000	3.243	81.09	36-119
	10 Sulfotepp	4.000	3.388	84.70	69-103
	11 Phorate	4.000	3.035	75.89	62-104
	12 Dimethoate	4.000	2.982	74.54	28-115
	13 Demeton-S	1.208	0.2863	23.70*	36-119
	14 Simazine	4.000	3.434	85.86	47-109
	15 Atrazine	4.000	3.241	81.03	36-119
	16 propazine	4.000	3.294	82.34	36-119
	17 Disulfoton	4.000	3.587	89.67	61-103
	18 Diazinon	4.000	3.907	97.69	36-119
	19 Methyl Parathion	4.000	3.822	95.55	68-119
	20 Ronnel	4.000	3.557	88.93	62-115
	21 Malathion	4.000	3.892	97.30	67-115
	22 Fenthion	4.000	3.573	89.33	36-119
	23 Parathion	4.000	3.572	89.30	36-119
	24 Chlorpyrifos	4.000	4.015	100.37	66-101
	25 Trichloronate	4.000	3.274	81.86	36-119
	26 Anilazine	4.000	1.249	31.22*	47-115
	28 Tetrachlorvinphos	4.000	3.372	84.31	36-119
	29 Tokuthion	4.000	3.783	94.58	36-119
	31 Carbophenothion-me	4.000	3.489	87.22	36-119
	32 Fensulfothion	4.000	3.640	90.99	61-115
	33 Bolstar / Famphur	8.000	8.017	100.21	36-119
	34 Carbophenothion	4.000	3.723	93.07	50-150
$	35 Triphenyl phosphat	2.000	2.010	100.52	50-150
	36 Phosmet	4.000	4.062	101.54	50-150
	37 EPN	4.000	4.002	100.06	36-119
	38 Azinphos-methyl	4.000	3.566	89.16	55-115
	40 Azinphos-ethyl	4.000	3.679	91.97	36-119
	41 Coumaphos	4.000	3.674	91.86	62-115
M	42 Total Demeton	4.000	3.470	86.75	47-115
M	43 Merphos	4.000	3.891	97.28	36-119

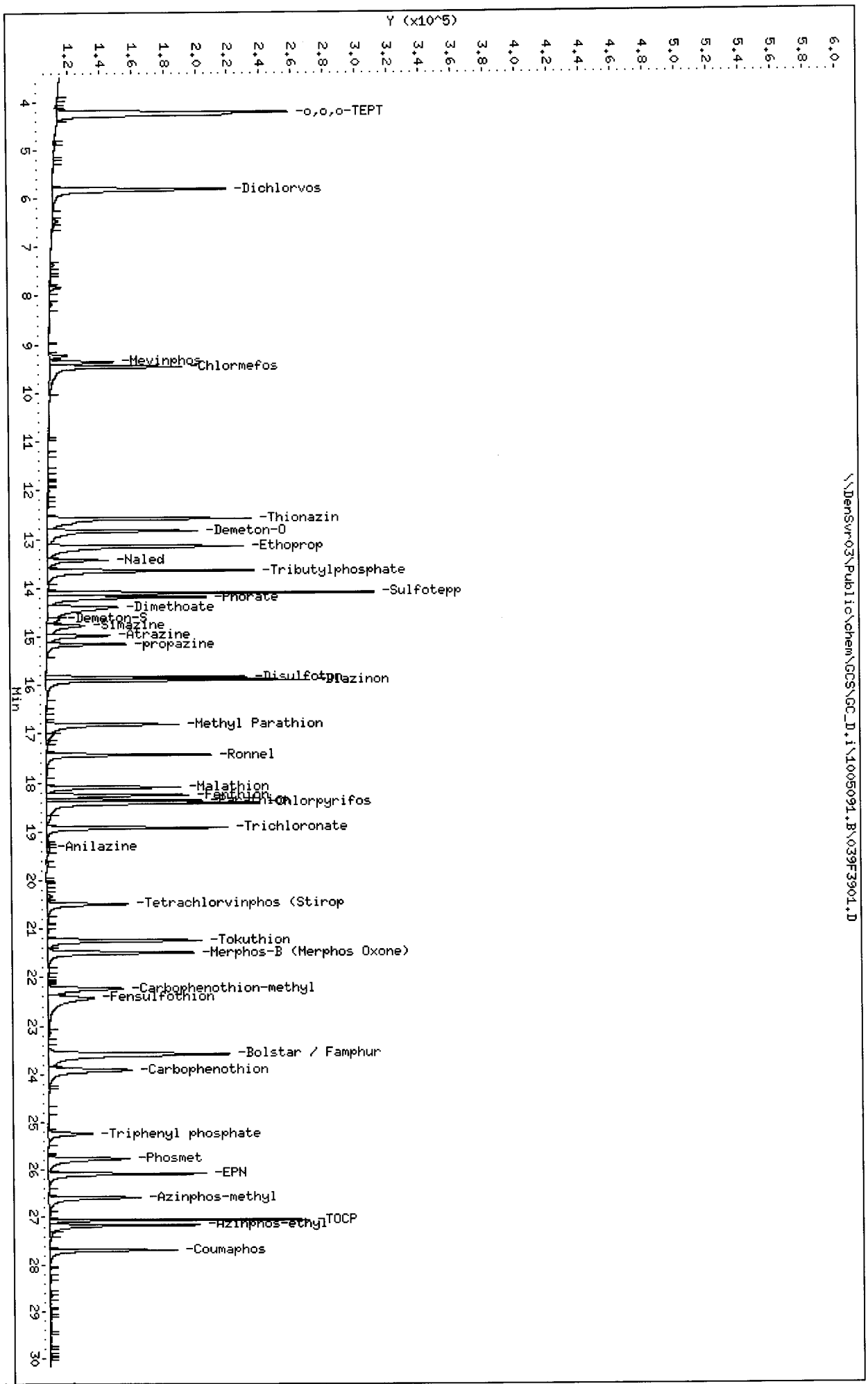
TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LLVJ01AD
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Client SDG: D9J010000
Fraction: SV
Client Smp ID: LCSD
Operator: TLW
SampleType: LCSD
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	2.000	2.164	108.19	48-114
$ 35 Triphenyl phosphat	2.000	2.010	100.52	50-150

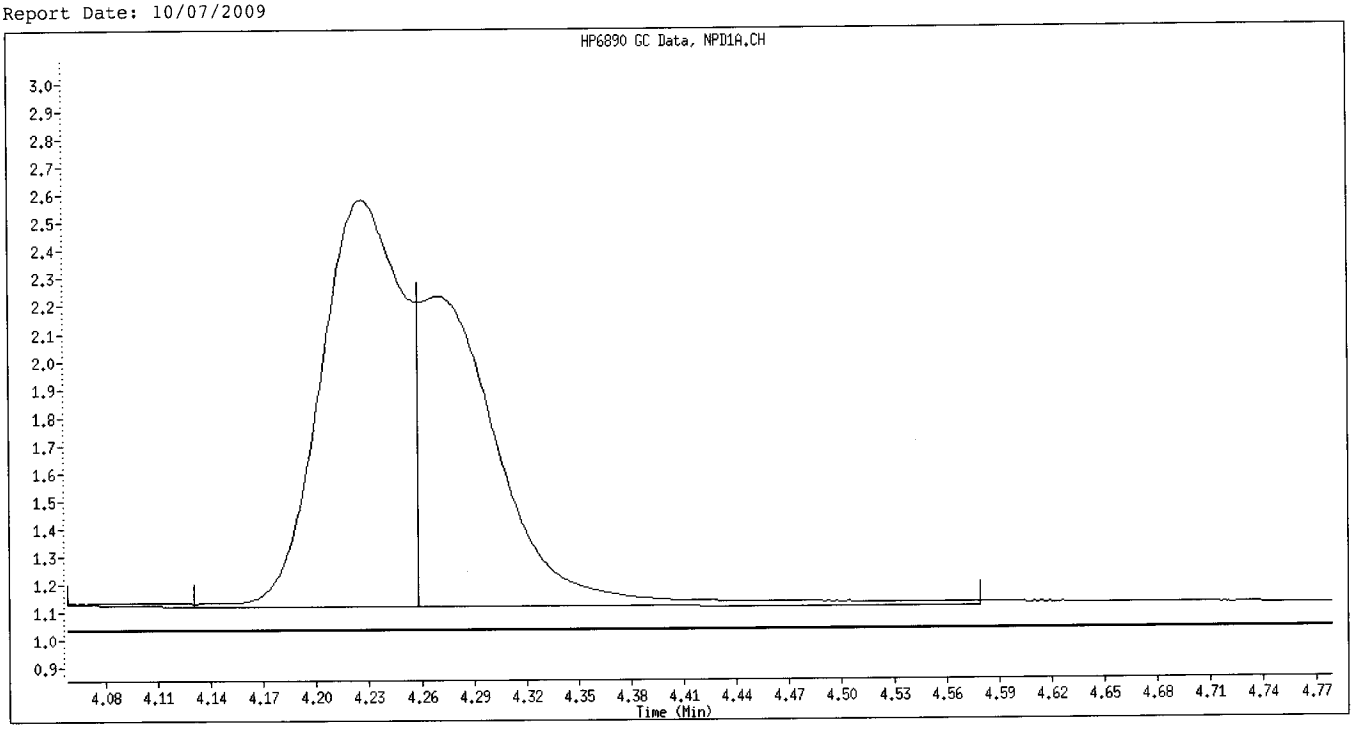


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\039F3901.D
Date : 06-OCT-2009 16:04
Client ID: LCSD
Sample Info: LLVJ01AD,LCSD
Column phase: RTx-1MS

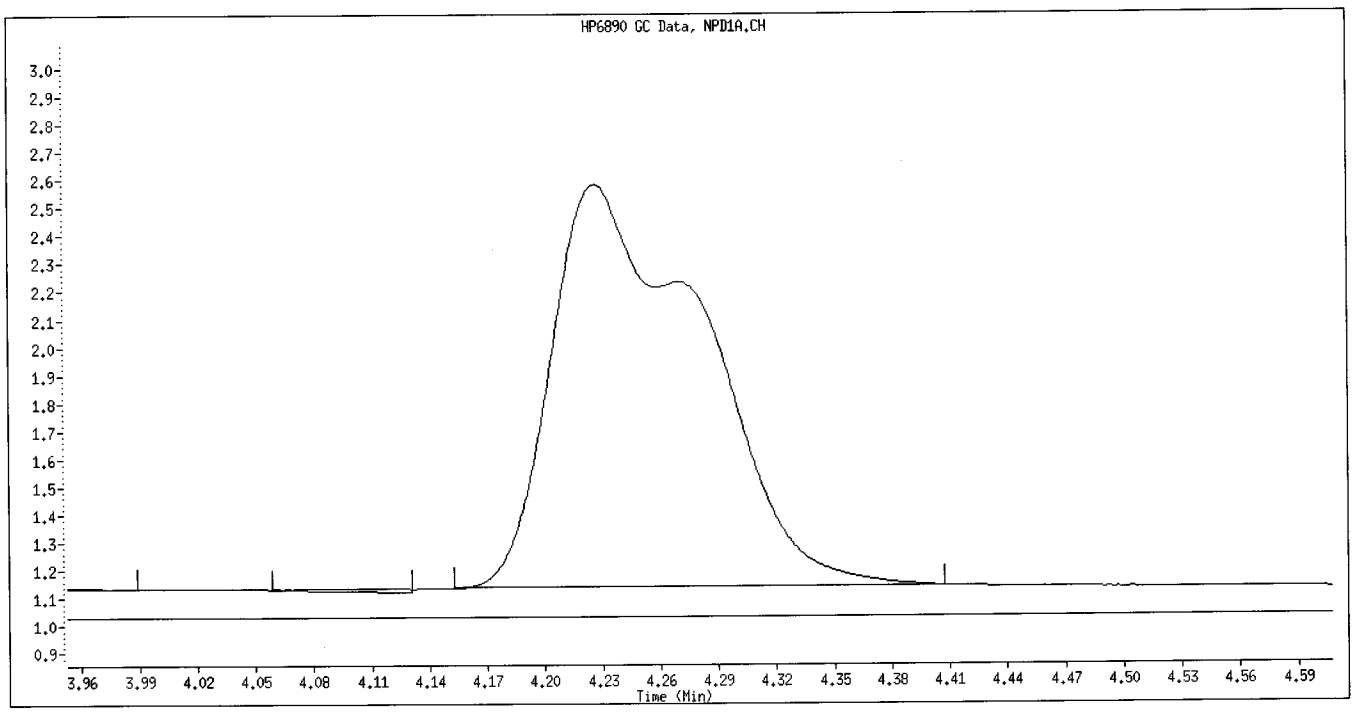
Instrument: GC_D.i
Operator: TLM
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\039F3901.D

Data File Name: 039F3901.D
Inj. Date and Time: 06-OCT-2009 16:04
Instrument ID: GC_D.i
Client ID: LCSD
Compound Name: o,o,o-TEPT
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\039F3901.D
Lab Smp Id: LLVJ01AD Client Smp ID: LCSD
Inj Date : 06-OCT-2009 16:04
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AD,LCSD
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 39 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	6.714	6.724	(0.416)	463363	2.06568	4.131
	2 Dichlorvos	8.901	8.899	(0.551)	312847	1.95875	3.918
$	3 Chlormefos	12.834	12.830	(0.795)	135264	0.88543	1.771
	4 Mevinphos	12.955	12.944	(0.802)	126807	1.32169	2.643
	5 Demeton-O	15.899	15.894	(0.985)	154058	1.62248	3.245
	6 Thionazin	16.027	16.019	(0.993)	261917	1.89558	3.791
*	7 Tributylphosphate	16.147	16.139	(1.000)	267846	2.00000	
	8 Ethoprop	16.289	16.282	(1.009)	274001	1.59301	3.186
	9 Naled	16.875	16.866	(1.045)	76597	1.58120	3.162
	10 Sulfotepp	17.188	17.181	(1.064)	329815	1.70603	3.412(M)
	11 Phorate	17.214	17.219	(1.066)	193753	1.46990	2.940(M)
	12 Demeton-S	17.919	17.906	(1.110)	6265	0.08221	0.1644(R)
	13 Simazine	18.330	18.319	(1.135)	47206	1.99165	3.983
	14 Atrazine / Propazine	18.393	18.384	(1.139)	167682	3.29812	6.596
	15 Dimethoate	18.525	18.510	(1.147)	198019	1.44679	2.894
	16 Diazinon	18.918	18.910	(1.172)	223776	1.68708	3.374
	17 Disulfoton	19.182	19.173	(1.188)	220266	1.63729	3.274
	18 Methyl Parathion	21.083	21.074	(0.735)	180468	1.87076	3.742
	19 Ronnel	21.169	21.160	(0.738)	243119	2.03526	4.070
	20 Malathion	22.427	22.420	(0.782)	149070	1.72787	3.456
	21 Chlorpyrifos	22.587	22.576	(0.787)	201893	1.81971	3.639
	22 Trichloronate	22.760	22.749	(0.793)	189720	1.61048	3.221

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.808	22.801	(0.795)	213616	1.97791	3.956
	24 Fenthion	22.879	22.869	(0.798)	244674	1.81639	3.633
	25 Merphos-A (Merphos)	Compound Not Detected.					
	26 Anilazine	24.408	24.386	(0.851)	7030	0.93672	1.873(R)
	27 Tetrachlorvinphos (stirophos)	25.829	25.821	(0.900)	123499	1.71249	3.425
	28 Tokuthion	26.011	26.004	(0.907)	211337	1.83648	3.673
	29 Merphos-B (Merphos oxone)	26.142	26.137	(0.911)	208832	2.06707	4.134
	30 Carbophenothion methyl	26.978	26.973	(0.941)	156515	1.82563	3.651
	31 Fensulfothion	27.215	27.209	(0.949)	129692	1.72618	3.452
	32 Bolstar	27.326	27.322	(0.953)	203739	2.01461	4.029
	33 Carbophenothion	27.440	27.436	(0.957)	166157	1.88977	3.780
	34 Famphur	27.624	27.620	(0.963)	169779	1.94309	3.886
$	35 Triphenyl phosphate	27.914	27.912	(0.973)	83198	1.10605	2.212
	36 EPN	28.222	28.219	(0.984)	182283	1.96458	3.929
	37 Phosmet	28.349	28.345	(0.988)	164830	2.06200	4.124
*	38 TOCP	28.684	28.680	(1.000)	191486	2.00000	
	39 Azinphos-methyl	28.797	28.792	(1.004)	136124	1.77742	3.555
	40 Azinphos-ethyl	29.107	29.102	(1.015)	154344	1.91126	3.822
	41 Coumaphos	29.433	29.428	(1.026)	137461	1.80735	3.615
M	42 Total Demeton				160323	1.70469	3.409
M	43 Merphos				208832	1.60418	3.208

QC Flag Legend

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: 039F3901.D
Lab Smp Id: LLVJ01AD
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: LCSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	267846	28.88
38 TOCP	159861	79931	319722	191486	19.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.06
38 TOCP	28.68	28.18	29.18	28.68	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.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AD
Client Smp ID: LCSD
Level: LOW
Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

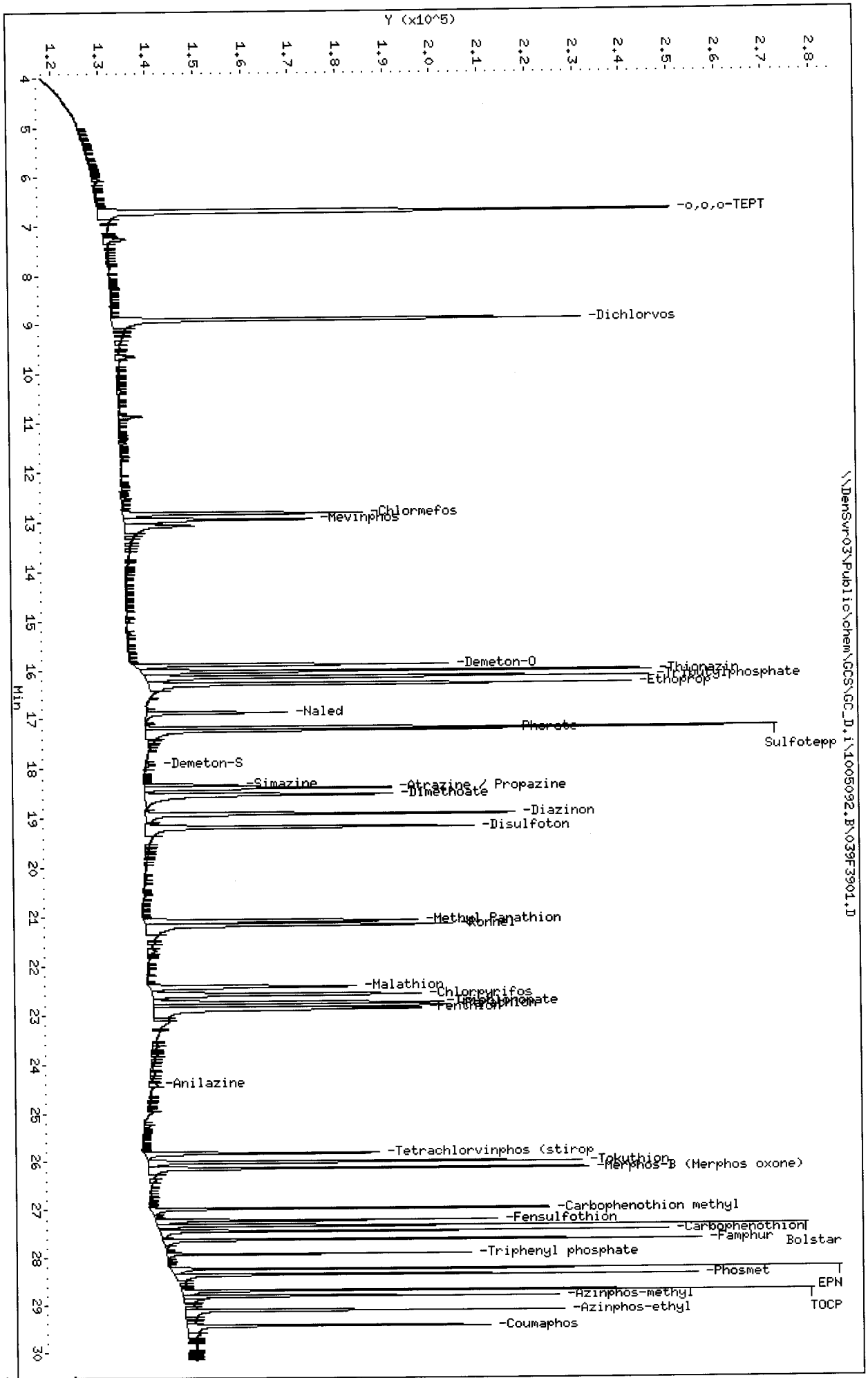
	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1 o,o,o-TEPT	4.000	4.131	103.28	36-119
	2 Dichlorvos	4.000	3.918	97.94	50-120
$	3 Chlormefos	2.000	1.771	88.54	48-114
	4 Mevinphos	4.000	2.643	66.08	35-108
	5 Demeton-O	2.800	3.245	115.89	36-119
	6 Thionazin	4.000	3.791	94.78	65-116
	8 Ethoprop	4.000	3.186	79.65	65-108
	9 Naled	4.000	3.162	79.06	36-119
	10 Sulfotepp	4.000	3.412	85.30	69-103
	11 Phorate	4.000	2.940	73.49	62-104
	12 Demeton-S	1.200	0.1644	13.70*	36-119
	13 Simazine	4.000	3.983	99.58	47-109
	14 Atrazine / Propazi	8.000	6.596	82.45	36-119
	15 Dimethoate	4.000	2.894	72.34	28-115
	16 Diazinon	4.000	3.374	84.35	36-119
	17 Disulfoton	4.000	3.274	81.86	61-103
	18 Methyl Parathion	4.000	3.742	93.54	68-119
	19 Ronnel	4.000	4.070	101.76	62-115
	20 Malathion	4.000	3.456	86.39	67-115
	21 Chlorpyrifos	4.000	3.639	90.99	66-101
	22 Trichloronate	4.000	3.221	80.52	36-119
	23 Parathion	4.000	3.956	98.90	36-119
	24 Fenthion	4.000	3.633	90.82	36-119
	26 Anilazine	4.000	1.873	46.84*	47-115
	27 Tetrachlorvinphos	4.000	3.425	85.62	36-119
	28 Tokuthion	4.000	3.673	91.82	36-119
	30 Carbophenothion me	4.000	3.651	91.28	36-119
	31 Fensulfothion	4.000	3.452	86.31	61-115
	32 Bolstar	4.000	4.029	100.73	36-119
	33 Carbophenothion	4.000	3.780	94.49	36-119
	34 Famphur	4.000	3.886	97.15	36-119
$	35 Triphenyl phosphat	2.000	2.212	110.60	36-119
	36 EPN	4.000	3.929	98.23	36-119
	37 Phosmet	4.000	4.124	103.10	36-119
	39 Azinphos-methyl	4.000	3.555	88.87	55-115
	40 Azinphos-ethyl	4.000	3.822	95.56	36-119
	41 Coumaphos	4.000	3.615	90.37	62-115
M	42 Total Demeton	4.000	3.409	85.23	47-115
M	43 Merphos	4.000	3.208	80.21	36-119

TestAmerica

RECOVERY REPORT

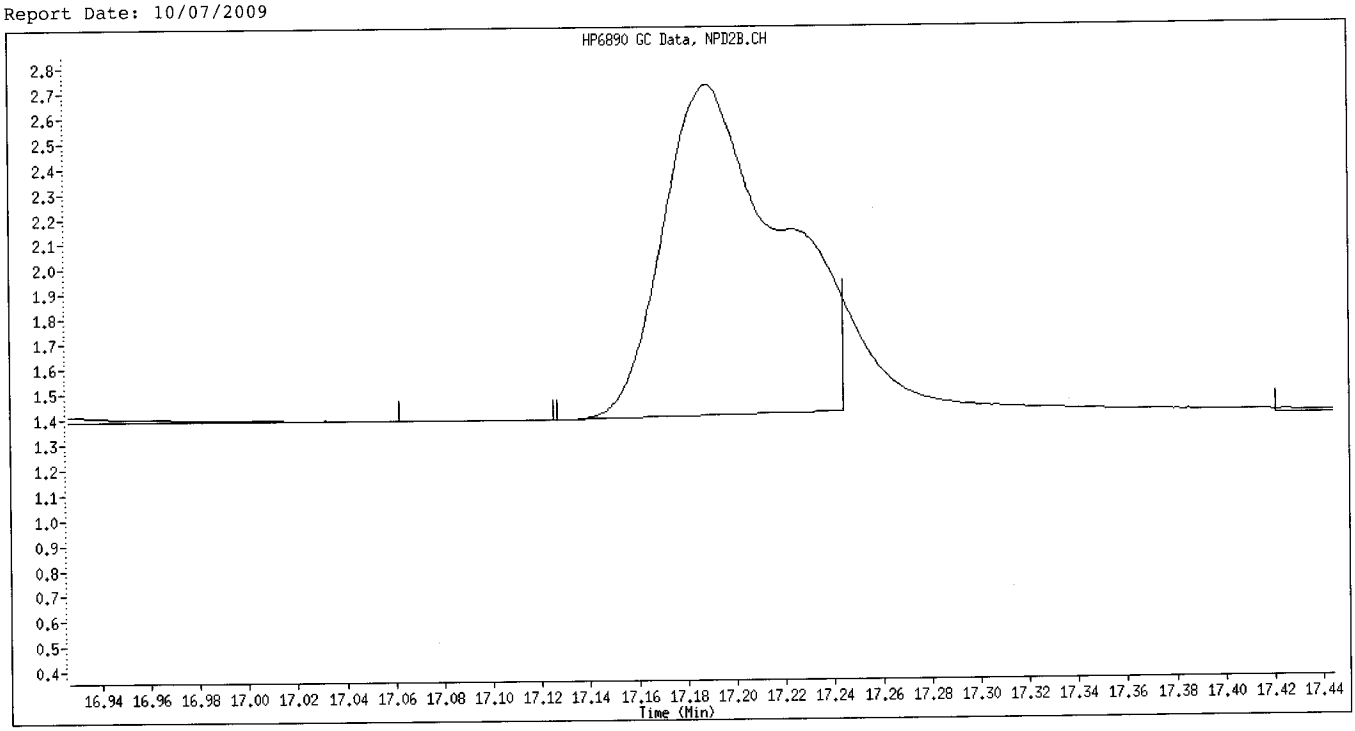
Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AD
Client Smp ID: LCSD
Level: LOW
Operator: TLW
Data Type: GC DATA
SampleType: LCSD
SpikeList File: fullDFCwater.spk
Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	2.000	1.771	88.54	48-114
$ 35 Triphenyl phosphat	2.000	2.212	110.60	50-150

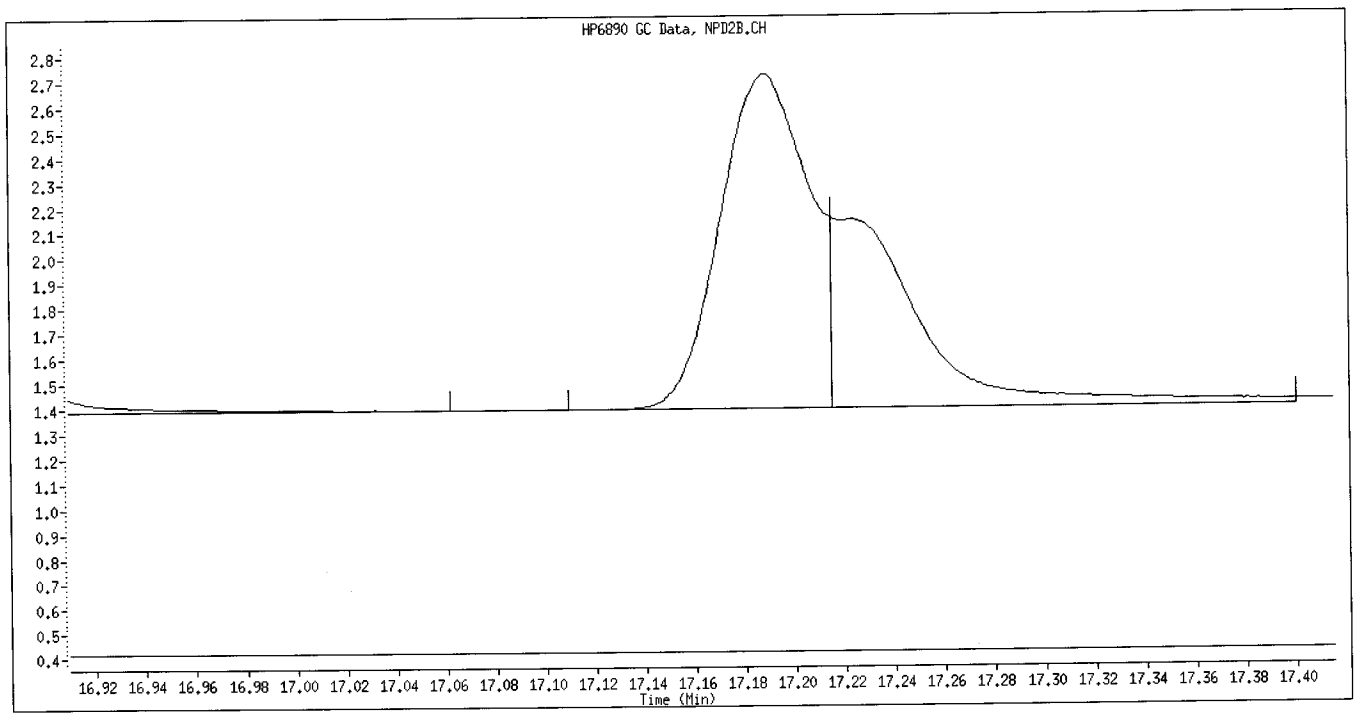


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\039F3901.D
Date : 06-OCT-2009 16:04
Client ID: LCSD
Sample Info: LLVJ01AD,LCSD
Column phase: RTx-OPPest
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

Data File Name: 039F3901.D
Inj. Date and Time: 06-OCT-2009 16:04
Instrument ID: GC_D.i
Client ID: LCSD
Compound Name: Sulfotepp
CAS #:
Report Date: 10/07/2009



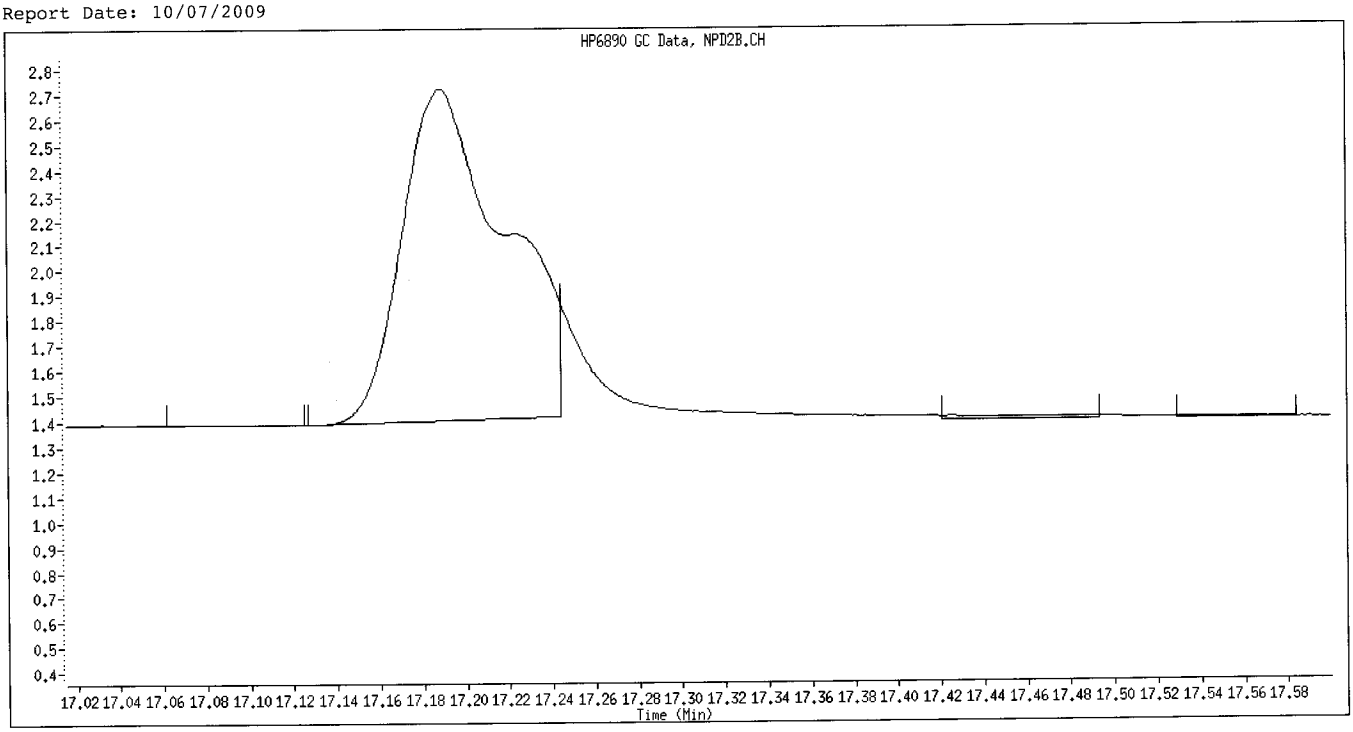
Original Integration



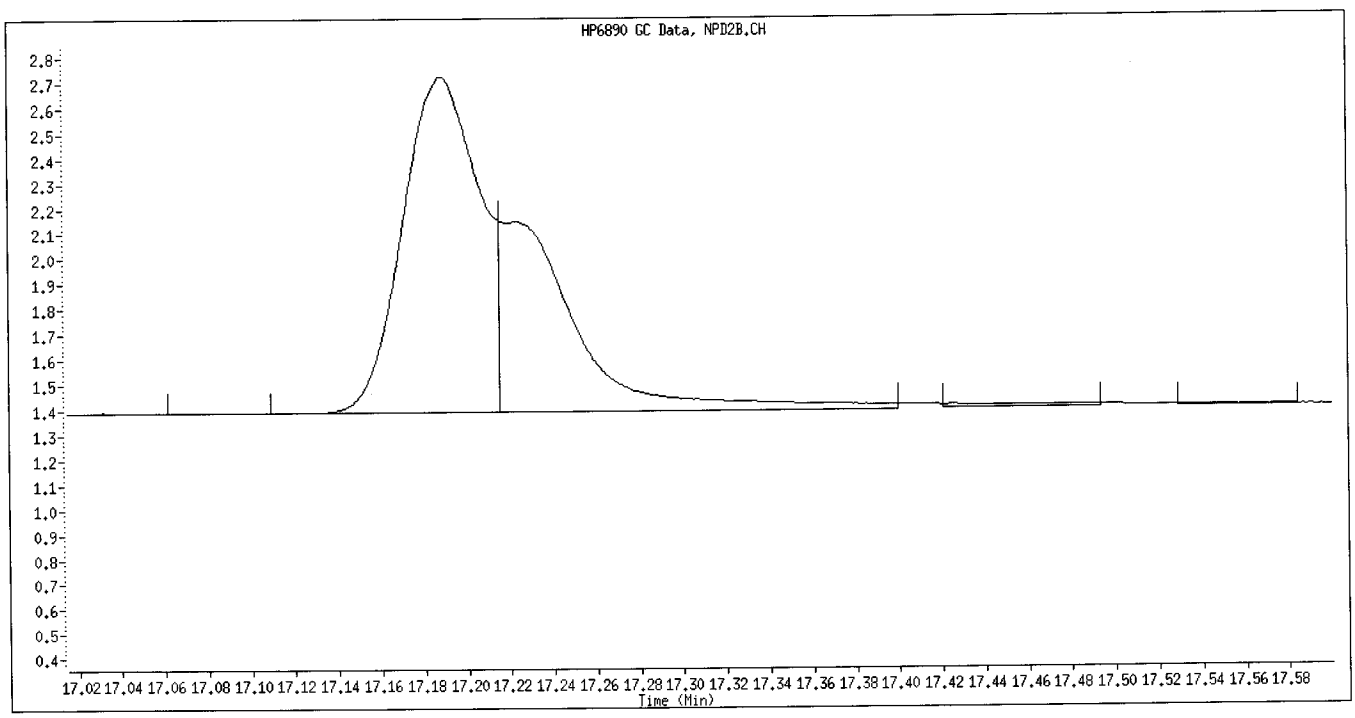
Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Data File Name: 039F3901.D
Inj. Date and Time: 06-OCT-2009 16:04
Instrument ID: GC_D.i
Client ID: LCSD
Compound Name: Phorate
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\040F4001.D
Lab Smp Id: LLTKN1AA Client Smp ID: TR-4B
Inj Date : 06-OCT-2009 16:41
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKN1AA,204-1
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
	3 Mevinphos	9.387	9.342	(0.687)	146	0.16674	0.3155
$	4 Chlormefos	9.462	9.462	(0.693)	196529	0.78026	1.476
	5 Thionazin	Compound Not Detected.					
	6 Demeton-O	Compound Not Detected.					
	7 Ethoprop	Compound Not Detected.					
	8 Naled	Compound Not Detected.					
*	9 Tributylphosphate	13.663	13.639	(1.000)	357064	2.00000	
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Dimethoate	Compound Not Detected.					
	13 Demeton-S	Compound Not Detected.					
	14 Simazine	Compound Not Detected.					
	15 Atrazine	Compound Not Detected.					
	16 propazine	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Diazinon	Compound Not Detected.					
	19 Methyl Parathion	Compound Not Detected.					
	20 Ronnel	Compound Not Detected.					
	21 Malathion	Compound Not Detected.					
	22 Fenthion	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	18.383	18.355	(0.679)	290	0.19777	0.3742 NC
	24 Chlorpyrifos	Compound Not Detected.					
	25 Trichloronate	Compound Not Detected.					
	26 Anilazine	Compound Not Detected.					
	27 Merphos-A (Merphos)	19.799	19.757	(0.732)	191	0.65347	1.236
	28 Tetrachlorvinphos (Stirophos)	Compound Not Detected.					
	29 Tokuthion	Compound Not Detected.					
	30 Merphos-B (Merphos Oxone)	Compound Not Detected.					
	31 Carbophenothion-methyl	Compound Not Detected.					
	32 Fensulfothion	Compound Not Detected.					
	33 Bolstar / Famphur	23.537	23.573	(0.870)	253	0.09237	0.1748
	34 Carbophenothion	Compound Not Detected.					
$	35 Triphenyl phosphate	25.260	25.224	(0.933)	105491	0.91289	1.727
	36 Phosmet	Compound Not Detected.					
	37 EPN	Compound Not Detected.					
	38 Azinphos-methyl	Compound Not Detected.					
*	39 TOCP	27.062	27.056	(1.000)	257946	2.00000	
	40 Azinphos-ethyl	Compound Not Detected.					
	41 Coumaphos	Compound Not Detected.					
M	42 Total Demeton	Compound Not Detected.					
M	43 Merphos				191	0.02611	0.04941

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 040F4001.D
Lab Smp Id: LLTKN1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-4B
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	357064	25.72
39 TOCP	197231	98616	394462	257946	30.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.20
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LLTKN1AA Client Smp ID: TR-4B
Level: LOW Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	1.892	1.476	78.03	48-114
$ 35 Triphenyl phosphat	1.892	1.727	91.29	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\040F4001.D
Date : 06-OCT-2009 16:41
Client ID: TR-4B
Sample Info: LLTKN1AA,204-1

Instrument: GC_D.i

Operator: TLW
Column diameter: 0.32

Column phase: RTx-1MS

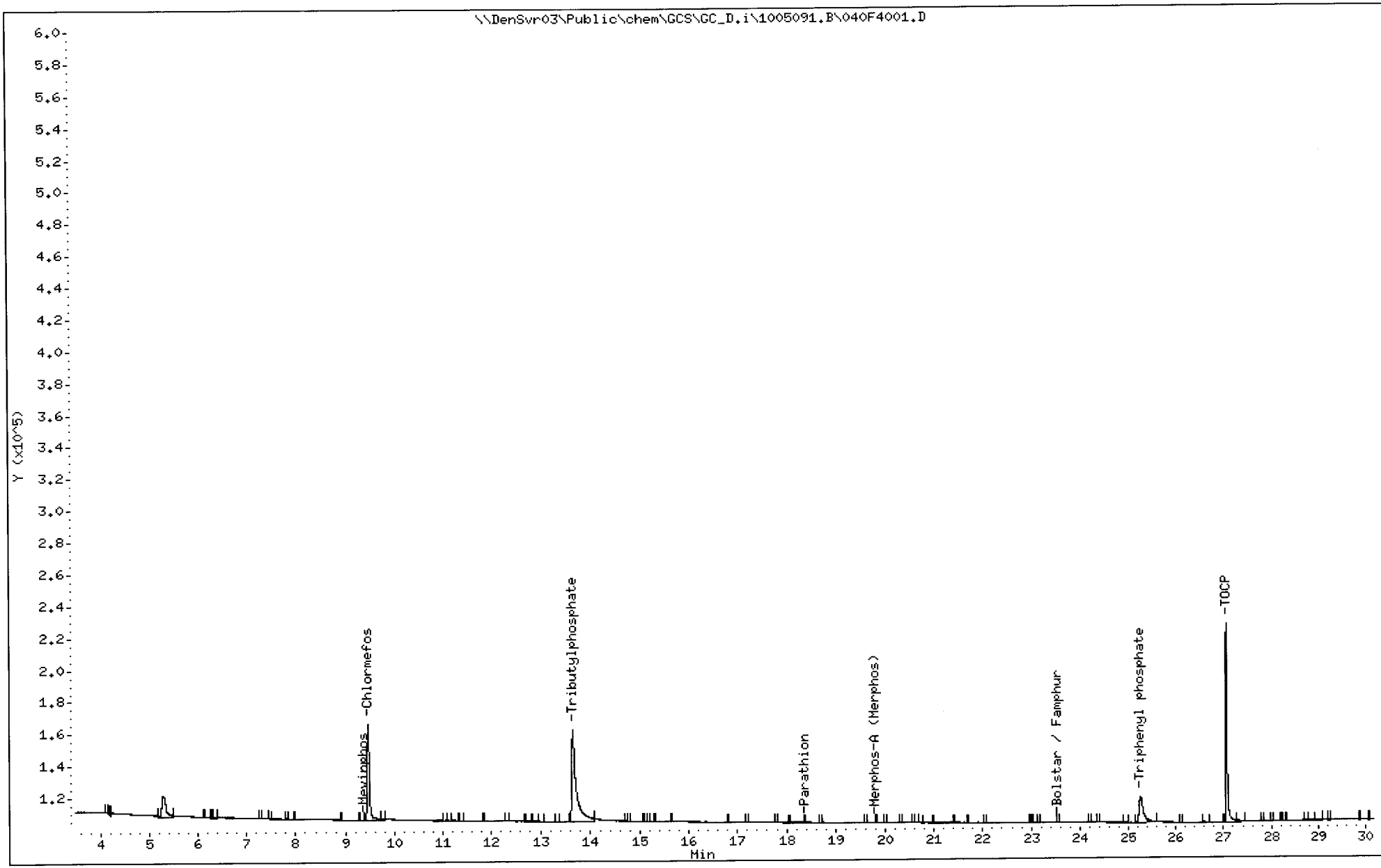


Table of Contents

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\040F4001.D
Lab Smp Id: LLTKN1AA Client Smp ID: TR-4B
Inj Date : 06-OCT-2009 16:41
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKN1AA,204-1
Misc Info : IS GSV1076-09
Comment   :
Method   : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
$	3 Chlormefos	12.836	12.830	(0.795)	126300	0.93220	1.764
	4 Mevinphos	Compound Not Detected.					
	5 Demeton-O	Compound Not Detected.					
	6 Thionazin	Compound Not Detected.					
*	7 Tributylphosphate	16.153	16.139	(1.000)	237547	2.00000	
	8 Ethoprop	Compound Not Detected.					
	9 Naled	Compound Not Detected.					
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Demeton-S	17.911	17.906	(1.109)	670	0.03252	0.06153
	13 Simazine	Compound Not Detected.					
	14 Atrazine / Propazine	Compound Not Detected.					
	15 Dimethoate	18.533	18.510	(1.147)	281	0.11674	0.2209
	16 Diazinon	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Methyl Parathion	Compound Not Detected.					
	19 Ronnel	Compound Not Detected.					
	20 Malathion	22.400	22.420	(0.781)	102	0.03529	0.06677(a)
	21 Chlorpyrifos	Compound Not Detected.					
	22 Trichloronate	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	Compound Not Detected.					
	24 Fenthion	Compound Not Detected.					
	25 Merphos-A (Merphos)	23.433	23.403	(0.817)	227	0.75632	1.431
	26 Anilazine	Compound Not Detected.					
	27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
	28 Tokuthion	Compound Not Detected.					
	29 Merphos-B (Merphos oxone)	26.123	26.137	(0.911)	347	0.00362	0.006859(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	27.917	27.912	(0.973)	69985	0.98189	1.858
	36 EPN	Compound Not Detected.					
	37 Phosmet	Compound Not Detected.					
*	38 TOCP	28.683	28.680	(1.000)	181443	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: 040F4001.D
Lab Smp Id: LLTKN1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-4B
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	237547	14.30
38 TOCP	159861	79931	319722	181443	13.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.10
38 TOCP	28.68	28.18	29.18	28.68	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.

TestAmerica

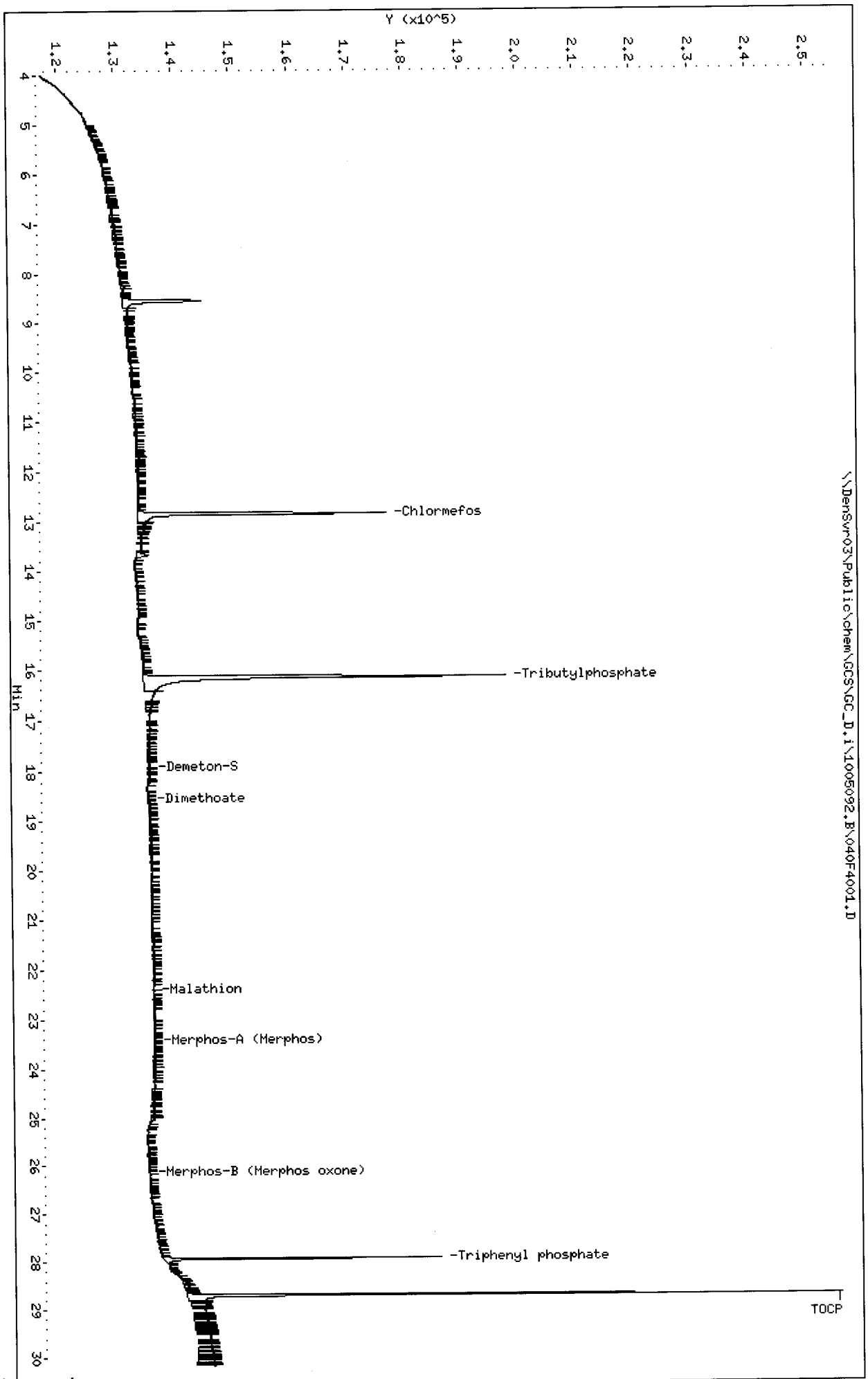
RECOVERY REPORT

Client Name: Northgate Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LLTKN1AA Client Smp ID: TR-4B
Level: LOW Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	1.892	1.764	93.22	48-114
$ 35 Triphenyl phosphat	1.892	1.858	98.19	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\040F4001.D
Date : 06-OCT-2009 16:41
Client ID: TR-4B
Sample Info: LLTKN1AA,204-1
Column phase: RTx-OPPest

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\041F4101.D
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Inj Date : 06-OCT-2009 17:17
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKX1AA,210-1
Misc Info : IS GSV1076-09
Comment   :
Method   : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
	3 Mevinphos	9.322	9.342	(0.682)	308	0.16839	0.3198
$	4 Chlormefos	9.459	9.462	(0.692)	159512	0.62716	1.191
	5 Thionazin	12.579	12.576	(0.921)	393	0.09186	0.1745
	6 Demeton-O	Compound Not Detected.					
	7 Ethoprop	Compound Not Detected.					
	8 Naled	Compound Not Detected.					
*	9 Tributylphosphate	13.663	13.639	(1.000)	360555	2.00000	
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Dimethoate	Compound Not Detected.					
	13 Demeton-S	Compound Not Detected.					
	14 Simazine	Compound Not Detected.					
	15 Atrazine	Compound Not Detected.					
	16 propazine	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Diazinon	Compound Not Detected.					
	19 Methyl Parathion	Compound Not Detected.					
	20 Ronnel	Compound Not Detected.					
	21 Malathion	Compound Not Detected.					
	22 Fenthion	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	Compound Not Detected.					
	24 Chlorpyrifos	Compound Not Detected.					
	25 Trichloronate	Compound Not Detected.					
	26 Anilazine	Compound Not Detected.					
	27 Merphos-A (Merphos)	19.779	19.757	(0.731)	377	0.65716	1.248
	28 Tetrachlorvinphos (Stirophos)	Compound Not Detected.					
	29 Tokuthion	Compound Not Detected.					
	30 Merphos-B (Merphos Oxone)	21.474	21.484	(0.794)	164	0.00125	0.002376
	31 Carbophenothion-methyl	Compound Not Detected.					
	32 Fensulfothion	Compound Not Detected.					
	33 Bolstar / Famphur	Compound Not Detected.					
	34 Carbophenothion	Compound Not Detected.					
$	35 Triphenyl phosphate	25.249	25.224	(0.933)	96673	0.85428	1.622
	36 Phosmet	25.724	25.743	(0.951)	281	0.06553	0.1245
	37 EPN	Compound Not Detected.					
	38 Azinphos-methyl	Compound Not Detected.					
*	39 TOCP	27.059	27.056	(1.000)	253528	2.00000	
	40 Azinphos-ethyl	Compound Not Detected.					
	41 Coumaphos	Compound Not Detected.					
M	42 Total Demeton	Compound Not Detected.					
M	43 Merphos				541	0.02818	0.05353

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 041F4101.D
Lab Smp Id: LLTKX1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-2B
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	360555	26.95
39 TOCP	197231	98616	394462	253528	28.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.20
39 TOCP	27.06	26.56	27.56	27.06	0.01

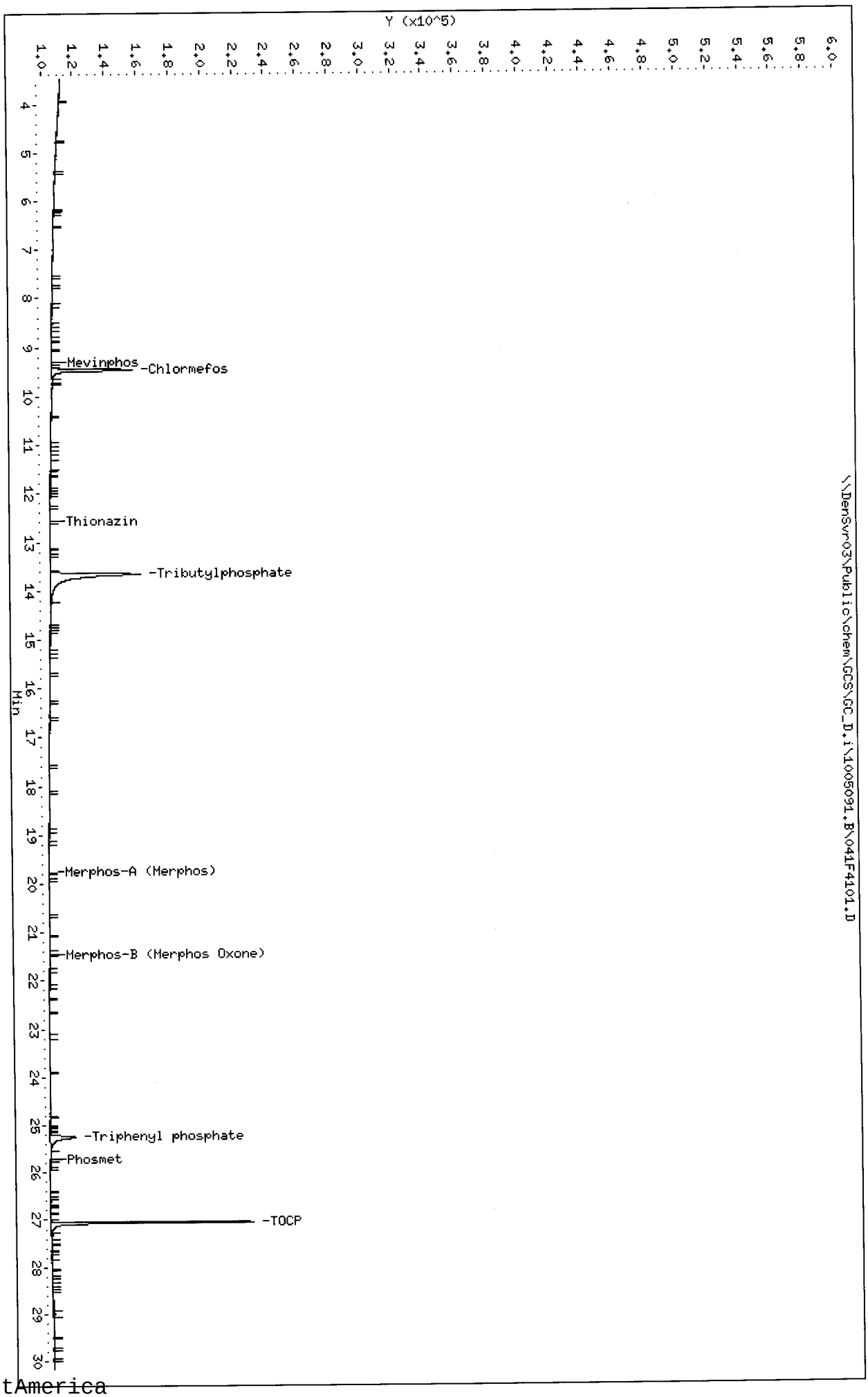
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Level: LOW Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	1.899	1.191	62.72	48-114
$ 35 Triphenyl phosphat	1.899	1.622	85.43	50-150


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\041F4101.D
Date : 06-OCT-2009 17:17
Client ID: TR-2B
Sample Info: LLTKX1AA,210-1
Column phase: RTx-1MS
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\041F4101.D
Y (x10^5)
Min
Mevinphos
-Chlormefos
Thionazin
-Tributylphosphate
Merphos-A (Merphos)
Merphos-B (Merphos Oxone)
-Triphenyl phosphate
Phosmet
-TOCP

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\041F4101.D
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Inj Date : 06-OCT-2009 17:17
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKX1AA,210-1
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
$	3 Chlormefos	12.834	12.830	(0.795)	104297	0.77808	1.478
	4 Mevinphos	Compound Not Detected.					
	5 Demeton-O	Compound Not Detected.					
	6 Thionazin	Compound Not Detected.					
*	7 Tributylphosphate	16.152	16.139	(1.000)	235019	2.00000	
	8 Ethoprop	Compound Not Detected.					
	9 Naled	16.861	16.866	(1.044)	2874	0.16766	0.3184
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Demeton-S	Compound Not Detected.					
	13 Simazine	18.314	18.319	(1.134)	261	0.34392	0.6532
	14 Atrazine / Propazine	Compound Not Detected.					
	15 Dimethoate	18.524	18.510	(1.147)	240	0.11645	0.2212
	16 Diazinon	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Methyl Parathion	21.065	21.074	(0.734)	306	0.10340	0.1964(a)
	19 Ronnel	Compound Not Detected.					
	20 Malathion	22.417	22.420	(0.782)	424	0.03910	0.07427(a)
	21 Chlorpyrifos	Compound Not Detected.					
	22 Trichloronate	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.830	22.801	(0.796)	393	0.06106	0.1160(a)
	24 Fenthion	Compound Not Detected.					
	25 Merphos-A (Merphos)	23.395	23.403	(0.816)	334	0.75809	1.440
	26 Anilazine	Compound Not Detected.					
	27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
	28 Tokuthion	Compound Not Detected.					
	29 Merphos-B (Merphos oxone)	26.156	26.137	(0.912)	299	0.00310	0.005880(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	27.916	27.912	(0.973)	63426	0.88194	1.675
	36 EPN	Compound Not Detected.					
	37 Phosmet	Compound Not Detected.					
*	38 TOCP	28.683	28.680	(1.000)	183074	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: 041F4101.D
Lab Smp Id: LLTKX1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-2B
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	235019	13.08
38 TOCP	159861	79931	319722	183074	14.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.10
38 TOCP	28.68	28.18	29.18	28.68	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

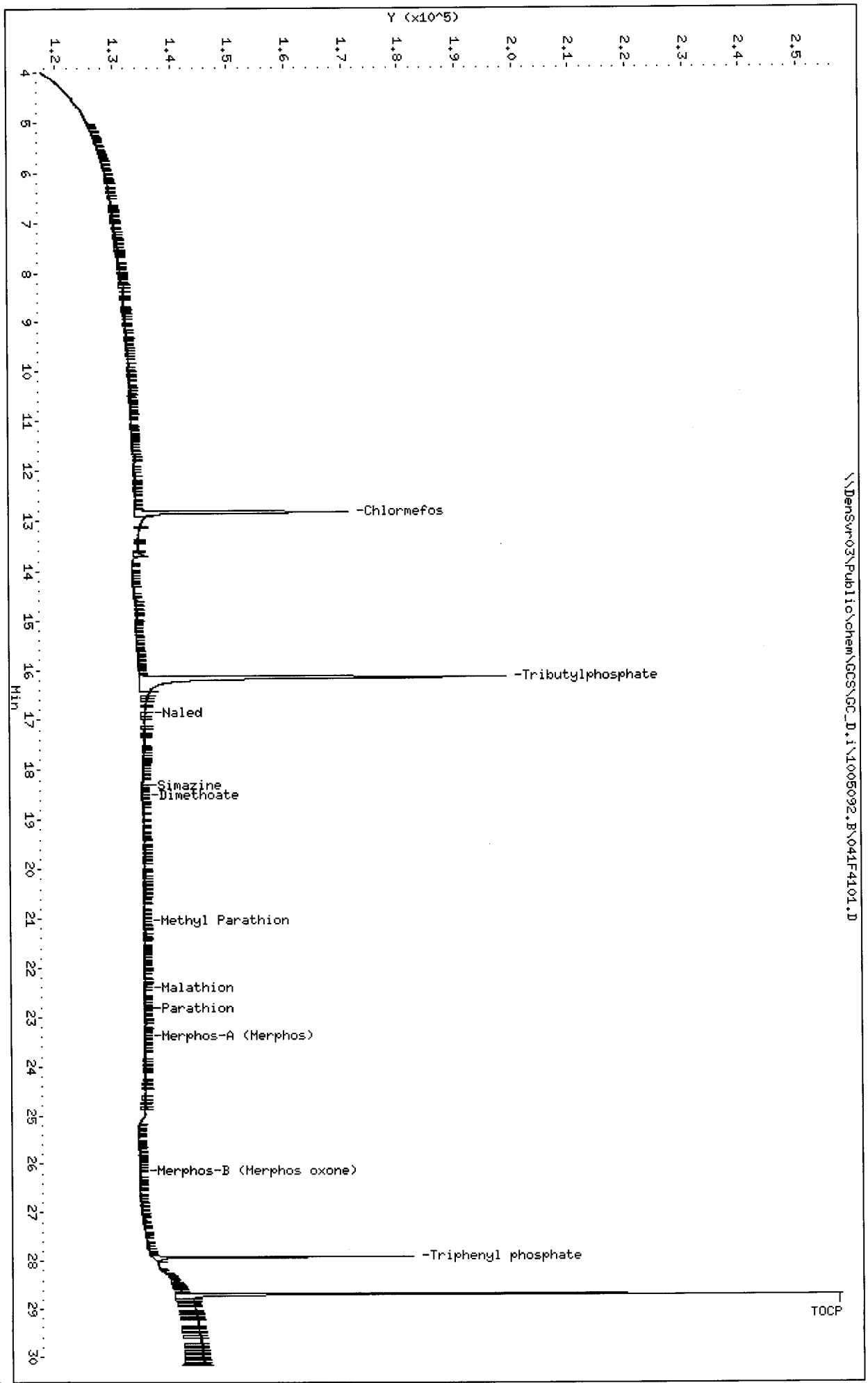
RECOVERY REPORT

Client Name: Northgate Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Level: LOW Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	1.899	1.478	77.81	48-114
$ 35 Triphenyl phosphat	1.899	1.675	88.19	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\041F4101.D
Date : 06-OCT-2009 17:17
Client ID: TR-2B
Sample Info: LLTKX1AA,210-1
Column phase: RTx-OPPest

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32



GC SEMIVOLATILE
INITIAL CALIBRATION DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC and HPLC ICAL Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

608 8081 8082 8151 (8141)
TPH/DRO Other SV 614
8310 8330 Other HPLC_____

601 602 8021 BTEX
TPH/GRO Other Volatile GC_____

Calibration Date: 092909
Instrument ID: D

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. Are correct data files used?	✓			✓	
2. Is there a sufficient number of calibration points used?	✓			✓	
3. Are reasons for removal of points documented?	✓			✓	Better linearity or not detected
4. Is linearity acceptable, 8000 Series: linear least-squares regression with r ≥ 0.990, (DOD projects require r ≥ 0.995) quadratic fit COD r^2> 0.990, or average response factors with RSD ≤ 20%? 600 Series: < 10% RSD or linear regression	✓			✓	
5. Are the correct RT windows applied to the ICAL integration?	✓			✓	
6. Are DDT & Endrin breakdown < 15%?			✓	NA	
7. Is each manual integration completely documented, signed and appropriate?	✓			✓	
8. Is traceability of standards properly documented?	✓			✓	
9. Was second level hand calculation performed? (document analyte checked)	-----	-----	-----	✓	
10. Was second-source ICV performed & recovery 85-115%?		✓		✓	Primary Include %R Mevinphos -30.8%, Phorate -18.5%, Anilazine -32.6%, Carbophenothion-methyl -38.0% Secondary Include %R Mevinphos -21.7%, Anilazine -42.1%, Carbophenothion-methyl -36.6%

1st Level Reviewer: Debra L. Williams Date: 9/30/09
2nd Level Reviewer: JG Date: 9/30/09

Revision 1.1
10/17/2008
G:\QA\Edit\FORMS\Data Review\ GC HPLC ICAL Review

Table of Contents

\SEQUENCE\D092909.S

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 GSV1077				
4	Vial 4	8141 L6 GSV1078				
5	Vial 5	8141 L5 GSV1079				
6	Vial 6	8141 L4 GSV1080				
7	Vial 7	8141 L3 GSV1081				
8	Vial 8	8141 L2 GSV1082				
9	Vial 9	8141 L1 GSV1083				
10	Vial 10	8141 SS GSV~~1084~~ 1107				
11	Vial 11	LKXKM1AA,MB				
12	Vial 12	LKXKM1AC,LCS				
13	Vial 13	LKXKM1AD,LCSD				
14	Vial 14	LKVW31A1,125-1				
15	Vial 15	LLF2T1AA,MB				
16	Vial 16	LLF2T1AC,LCS				
17	Vial 17	LK1TV1AC,309-1				
18	Vial 18	LK1TV1AE,309-1S				
19	Vial 19	LK1TV1AF,309-1D				
20	Vial 20	LK1T41AC,309-2				
21	Vial 21	LLF2R1AA,MB				
22	Vial 22	LLF2R1AC,LCS				
23	Vial 23	LK1TV1AD,309-1				
24	Vial 24	LK1TV1AJ,309-1S				
25	Vial 25	LK1TV1AK,309-1D				
26	Vial 26	LK1T41AD,309-2				
27	Vial 27	8141 CCV GSV1085				
28	Vial 28	LK48L1AA,MB				
29	Vial 29	LK48L1AC,LCS				
30	Vial 30	LKV851AA,173-1				
31	Vial 31	LKV9A1AA,173-2				
32	Vial 32	LKV9C1AA,173-3				
33	Vial 33	LK1V21AA,312-1				
34	Vial 34	LK1WH1AA,312-2				
35	Vial 35	LK1WL1AA,312-3				
36	Vial 36	8141 CCV GSV1085				
37	Vial 37	LK32J1AA,225-1				
38	Vial 38	LK32M1AA,225-2				
39	Vial 39	LK32M1AD,225-2S				
40	Vial 40	LK32M1AE,225-2D				
41	Vial 41	LK32W1AA,225-3				
42	Vial 42	8141 CCV GSV1085				
43	Vial 43	8141 L1 GSV1083				
44	Vial 44	LLK3J1AA,MB				
45	Vial 45	LLK3J1AC,LCS				
46	Vial 46	LK51E1AA,182-1				
47	Vial 47	LK51G1AA,182-2				
48	Vial 48	LK51G1AD,182-2S				
49	Vial 49	LK51G1AE,182-2D				
50	Vial 50	LK51H1AA,182-3				
51	Vial 51	LK9DD1AA,250-1				
52	Vial 52	LK9DE1AA,250-2				
53	Vial 53	LK9DM1AA,251-1				
54	Vial 54	8141 CCV GSV1085				
55	Vial 55	LK9DR1AA,251-2				
56	Vial 56	LK9DW1AA,251-3				
57	Vial 57	LK9D21AA,251-4				
58	Vial 58	LLEX71AA,243-1				
59	Vial 59	LLEX91AA,243-2				

9259804

9263577

9263576

9262069

9270024

\SEQUENCE\D092909.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	LLE0A1AA,243-3				
61	Vial 61	LLE0D1AA,243-4				
62	Vial 62	LLH341AA,285-1				
63	Vial 63	LLH351AA,285-2				
64	Vial 64	8141 CCV GSV1085				
65	Vial 65	8141 L1 GSV1083				

Sequence Table (Back Injector):

No entries - empty table!

Report Date : 30-Sep-2009 08:31

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
1 o,o,o-TEPT	1.63582	1.46357	1.69904	1.49231	1.55334	1.44588					
	1.33471						AVRG		1.51781		8.08371
2 Dichlorvos	1.09804	1.00105	1.14275	1.03578	1.13071	1.11714					
	1.09964						AVRG		1.08930		4.76749
3 Mevinphos	5844	34212	104479	248213	402659	602352					
	819859						WLINR	0.08261	0.53929		0.99057
5 Thionazin	26137	125634	280712	563076	833121	1175630					
	1528441						WLINR	0.04498	1.14087		0.99227

*All weighted linear $1/x^2$

TestAmerica

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Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
6 Demeton-O	8888	43142	84853	165026	243630	345285					
	434270						WLINR	0.00318	0.96138		0.99165
7 Ethoprop	39547	126916	278033	553642	815624	1147081					
	1475254						WLINR	0.01618	1.07726		0.99457
8 Naled	5310	29826	78159	178502	292094	423022					
	571005						WLINR	0.07277	0.38445		0.99629
10 Sulfotepp	1.53870	1.45506	1.61167	1.41213	1.42888	1.35179					
	1.25989						AVRG		1.43687		8.06106
11 Phorate	65747	152671	291306	533826	765652	1060353					
	1353850						WLINR	-0.07478	0.92708		0.99400
12 Dimethoate	+++++	80163	226488	510687	808318	1193294					
	1575516						WLINR	0.10278	1.12223		0.99768
13 Demeton-S	38231	82067	162056	321884	469949	664552					
	864178						WLINR	-0.02988	0.86412		0.99734

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Last Edit : 30-Sep-2009 08:31 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	5.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
14 Simazine	+++++	0.37114	0.38516	0.32753	0.33986	0.32914	0.30906	AVRG		0.34365		8.39328
15 Atrazine	+++++	0.42071	0.44480	0.40125	0.42142	0.42626	0.41891	AVRG		0.42222		3.31561
16 propazine	0.47409	0.45855	0.44433	0.40832	0.42584	0.43090	0.41719	AVRG		0.43703		5.34210
17 Disulfoton	20950	82596	206154	430185	637297	902155	1174534	WLINR	0.05288	1.26562		0.99670
18 Diazinon	1.88382	1.82569	1.81443	1.58003	1.61382	1.56949	1.40473	AVRG		1.67029		10.44280
19 Methyl Parathion	25143	93936	198723	413467	624051	900226	1183337	WLINR	0.04024	1.23862		0.99868
20 Ronnel	30043	92833	207764	431001	655015	986468	1357486	WLINR	0.03640	1.31799		0.99738

TestAmerica

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Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2	
	5.0000 Level 7											
21 Malathion	0.73980	0.86061	1.01096	0.96567	1.01070	0.99917						
	0.92478						AVRG		0.93024		10.76267	
22 Fenthion	25618	81008	197350	415453	617147	893955						
	1181597						WLINR	0.04167	1.22010		0.99680	
23 Parathion	+++++	64057	164552	364258	575984	833868						
	1129725						WLINR	0.09794	1.18191		0.99826	
24 Chlorpyrifos	+++++	2.09077	1.98130	1.64856	1.66053	1.68232						
	1.57114						AVRG		1.77243		11.87404	
25 Trichloronate	39953	111835	246154	514604	784208	1161418						
	1577851						WLINR	0.03585	1.57763		0.99851	
26 Anilazine	+++++	3022	9122	18930	30638	51752						
	72734						WLINR	0.13554	0.07134		0.98986	<- r=0.995
27 Merphos-A (Merphos)	+++++	2369	19841	99237	171288	390389						
	569663						QUAD	0.32491	2.46824	-0.69646	0.98447	<- NTC

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Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
28 Tetrachlorvinphos (Stirophos)	17165	56276	132732	293015	464319	712949					
	992586						QUAD	0.07115	1.11462	-0.05261	0.99826
29 Tokuthion	38426	102445	227163	463539	700700	1022545					
	1372371						WLINR	0.02104	1.36883		0.99735
30 Merphos-B (Merphos Oxone)	1.18673	1.20397	1.23721	1.04485	1.04018	0.82953					
	0.69514						AVRG		1.03395		19.75426
31 Carbophenothion-methyl	21792	68129	158754	337052	518631	756521					
	1019566						WLINR	0.04109	1.01816		0.99674
32 Fensulfothion	20933	74021	170156	382549	574661	828723					
	1083760						WLINR	0.04849	1.12420		0.99732
33 Bolstar / Famphur	61134	173165	392428	780681	1162399	1654375					
	2168160						WLINR	0.04532	1.13463		0.99719
34 Carbophenothion	35249	94798	205286	394500	583033	846237					
	1114078						WLINR	0.01102	1.15013		0.99759

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Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
36 Phosmet	21966	62864	146573	301111	461134	660771					
	881528						WLINR	0.03153	0.89522		0.99668
37 EPN	34992	94375	194560	394014	584842	822064					
	1075540						WLINR	0.00956	1.12405		0.99820
38 Azinphos-methyl	21324	58851	149459	317670	489484	687141					
	902800						WLINR	0.03852	0.93412		0.99284
40 Azinphos-ethyl	1.10513	1.01592	1.07941	0.96607	1.03338	1.00799					
	0.93458						AVRG		1.02035		5.84215
41 Coumaphos	22677	63688	149836	305626	472023	685194					
	924152						WLINR	0.03191	0.92139		0.99604
M 42 Total Demeton	47119	125209	246909	486910	713579	1009837					
	1298448						WLINR	-0.00080	1.37869		0.99748
43 Merphos	40761	109753	230843	474965	693990	992478					
	1281411						WLINR	0.01251	1.34499		0.99803

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INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
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Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
$ 4 Chlormefos	1.36448	1.36588	1.62655	1.40439	1.42366	1.38996					
	1.30084						AVRG		1.41082		7.28870
$ 35 Triphenyl phosphate	25377	71967	159284	326923	483386	690215					
	913461						WLINR	0.02309	0.94371		0.99807

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INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

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

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Report Date: 30-Sep-2009 08:31

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\010F1001.D
30-SEP-2009 03:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\027F2701.D

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
1 o,o,o-TEPT	1.70944	1.82270	1.91994	1.64505	1.63242	1.58596					
	1.40917						AVRG		1.67495		9.87961
2 Dichlorvos	1.36258	1.20538	1.26335	1.09465	1.15696	1.15368					
	1.11164						AVRG		1.19261		7.88032
4 Mevinphos	0.62406	0.71021	0.81978	0.72187	0.74254	0.72095					
	0.67540						AVRG		0.71640		8.38801
5 Demeton-O	0.67230	0.69342	0.78834	0.69657	0.72786	0.71462					
	0.66994						AVRG		0.70901		5.74420

*All weighted linear are $1/x^2$

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
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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	5.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
6 Thionazin	0.92691	1.04072	1.18135	1.04042	1.06307	1.02466	0.94497	AVRG		1.03173		8.11775
8 Ethoprop	42901	78683	117585	231940	339190	456780	585549	WLINR	-0.13757	1.09519		0.99708
9 Naled	7830	10270	27100	66048	104633	153119	201383	LINR	0.05226	0.38732		0.99488
10 Sulfotepp	28344	72236	147729	278947	391784	536170	695274	LINR	-0.11085	1.27752		0.99140
11 Phorate	27735	46032	94044	186434	267547	366311	457389	WLINR	-0.08395	0.88336		0.99207
12 Demeton-S	7597	22639	48449	105446	148807	218626	292846	WLINR	0.01285	0.82789		0.99843
13 Simazine	+++++	2982	12318	32796	50934	77526	107753	LINR	0.16673	0.21257		0.99947

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Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
14 Atrazine / Propazine	11556	30702	66367	137441	207143	307271					
	421388						WLINR	0.02339	0.38510		0.99771
15 Dimethoate	7995	35698	90330	200683	296888	414494					
	547217						WLINR	0.05731	1.10992		0.99591
16 Diazinon	1.00729	1.00825	1.11853	0.99837	0.98565	0.94624					
	0.86867						AVRG		0.99043		7.58654
17 Disulfoton	1.02114	1.01465	1.12139	1.02680	0.98892	0.97618					
	0.88268						AVRG		1.00454		7.08869
18 Methyl Parathion	8492	29837	72062	145647	218781	308584					
	409367						WLINR	0.05013	1.06463		0.99750
19 Ronnel	1.21971	1.18723	1.32067	1.20364	1.28662	1.26207					
	1.25358						AVRG		1.24765		3.79673
20 Malathion	11736	31859	67405	132229	191342	267260					
	350626						WLINR	0.01703	0.91922		0.99849

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Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2	
	5.0000 Level 7											
21 Chlorpyrifos	14294	39270	83511	166943	244884	349915						
	473711						WLINR	0.02320	1.18913		0.99867	
22 Trichloronate	14331	40109	87602	175644	261483	378490						
	516721						WLINR	0.02932	1.27691		0.99766	
23 Parathion	12594	39453	83031	163192	239376	341103						
	432482						WLINR	0.02868	1.16172		0.99848	
24 Fenthion	1.36034	1.46554	1.53969	1.38567	1.43691	1.34213						
	1.31823						AVRG		1.40693		5.55499	
25 Merphos-A (Merphos)	431	+++++	14025	43136	73838	162051						
	228536						LINR	0.37623	0.64894		0.94993	<- NTC
26 Anilazine	550	2028	5957	11478	19918	26232						
	35306						WLINR	0.07521	0.09338		0.99426	
27 Tetrachlorvinphos (stirophos)	8356	22635	50985	110089	164289	242093						
	330886						QUAD	0.05055	1.28376	-0.05352	0.99966	

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	5.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
28 Tokuthion	1.08753	1.10074	1.24220	1.21557	1.27179	1.25077	1.24497	AVRG		1.20194		6.28609
29 Merphos-B (Merphos oxone)	1.22652	1.27415	1.21296	1.07677	1.02350	0.80912	0.76337	AVRG		1.05520		19.32026
30 Carbophenothion methyl	11420	31047	66286	127195	192332	269754	352947	WLINR	0.01951	0.91500		0.99803
31 Fensulfothion	9459	26023	59611	117044	171184	232294	294034	WLINR	0.02472	0.80787		0.99542
32 Bolstar	1.02843	1.03889	1.16718	1.07913	1.10055	1.02961	0.95013	AVRG		1.05627		6.44864
33 Carbophenothion	12072	32880	70538	133833	194237	270609	347667	WLINR	0.01527	0.93342		0.99725
34 Famphur	10333	30107	67281	137487	195770	273389	345194	WLINR	0.02930	0.94099		0.99711

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
36 EPN	0.96427	0.93325	1.08934	0.97332	0.99917	0.94072					
	0.88365						AVRG		0.96910		6.63355
37 Phosmet	0.86015	0.71717	0.90198	0.81421	0.89285	0.88885					
	0.76918						AVRG		0.83491		8.47100
39 Azinphos-methyl	18426	32051	63061	115656	166083	229899					
	301398						WLINR	-0.05641	0.75216		0.99445
40 Azinphos-ethyl	24380	39849	67533	126800	171561	238500					
	301170						WLINR	-0.10839	0.75753		0.99732
41 Coumaphos	20151	38014	63215	114650	160902	222813					
	284996						WLINR	-0.08247	0.72795		0.99879
M 42 Total Demeton	11226	32782	70048	148121	212648	309350					
	412260						WLINR	0.03190	1.04245		0.99868
43 Merphos	19148	49545	101511	202373	283468	401105					
	531931						WLINR	0.00943	1.37585		0.99907

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
$ 3 Chlormefos	1.26703	1.14885	1.28773	1.09409	1.10504	1.07530					
	1.00692						AVRG		1.14071		9.00151
$ 35 Triphenyl phosphate	0.75137	0.76053	0.86594	0.79535	0.81821	0.78033					
	0.72786						AVRG		0.78566		5.87332

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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: 30-Sep-2009 08:45

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	
\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\010F1001.D		

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.0000	2.0277	1.4	15.0	
2	Dichlorvos	2.0000	1.8383	8.1	15.0	
3	Mevinphos	2.0000	1.3838	30.8	15.0	<-
4	Chlormefos	2.0000	1.9297	3.5	15.0	
5	Thionazin	2.0000	1.9172	4.1	15.0	
~~6~~	~~Demeton-O~~	~~0.6500~~	~~1.9167~~	~~194.9~~	~~15.0~~	<- data not available SDW 9/30/09
7	Ethoprop	2.0000	1.9138	4.3	15.0	
8	Naled	2.0000	1.8740	6.3	15.0	
9	Sulfotepp	2.0000	1.7418	12.9	15.0	
10	Phorate	2.0000	1.6291	18.5	15.0	<-
11	Dimethoate	2.0000	1.9574	2.1	15.0	
~~12~~	~~Demeton-S~~	~~1.3600~~	~~0.2011~~	~~85.2~~	~~15.0~~	<- data not available SDW 9/30/09
13	Simazine	2.0000	1.9396	3.0	15.0	
14	Atrazine	2.0000	1.8345	8.3	15.0	
15	propazine	2.0000	1.8174	9.1	15.0	
17	Disulfoton	2.0000	1.9030	4.9	15.0	
16	Diazinon	2.0000	1.7880	10.6	15.0	
18	Methyl Parathion	2.0000	1.8895	5.5	15.0	
19	Ronnel	2.0000	1.9096	4.5	15.0	
20	Malathion	2.0000	1.7586	12.1	15.0	
21	Fenthion	2.0000	1.7893	10.5	15.0	
22	Parathion	2.0000	1.7858	10.7	15.0	
23	Chlorpyrifos	2.0000	1.8763	6.2	15.0	
24	Trichloronate	2.0000	1.7018	14.9	15.0	
25	Anilazine	2.0000	1.3473	32.6	15.0	<-
148	Merphos-A (Merphos)	2.0000	1.0513	47.4	999.0	
26	Tetrachlorvinphos (Stirophos)	2.0000	1.7078	14.6	15.0	
28	Tokuthion	2.0000	1.8589	7.1	15.0	
149	Merphos-B (Merphos Oxone)	2.0000	2.1683	8.4	999.0	
29	Carbophenothion-methyl	2.0000	1.2396	38.0	15.0	<-
29	Fensulfothion	2.0000	1.7345	13.3	15.0	
30	Bolstar / Famphur	4.0000	3.9661	0.8	15.0	
32	Carbophenothion	2.0000	1.9274	3.6	15.0	
31	Triphenyl phosphate	2.0000	2.0501	2.5	15.0	
34	Phosmet	2.0000	2.0603	3.0	15.0	
32	EPN	2.0000	1.9835	0.8	15.0	
33	Azinphos-methyl	2.0000	1.7690	11.5	15.0	
38	Azinphos-ethyl	2.0000	1.8763	6.2	15.0	
36	Coumaphos	2.0000	1.8522	7.4	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1178	5.9	15.0
27 Merphos	2.0000	1.8157	9.2	15.0

Average %D = 16.7

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.0000	2.0546	2.7	15.0	
2	Dichlorvos	2.0000	1.8179	9.1	15.0	
3	Chlormefos	2.0000	1.9854	0.7	15.0	
4	Mevinphos	2.0000	1.5661	21.7	15.0	<-
~~5~~	~~Demeton-O~~	~~0.6500~~	~~2.0374~~	~~213.5~~	~~15.0~~	~~<-~~
6	Thionazin	2.0000	2.0499	2.5	15.0	
7	Ethoprop	2.0000	1.8574	7.1	15.0	
10	Naled	2.0000	1.7111	14.4	15.0	
145	Sulfotepp	2.0000	1.7465	12.7	15.0	
8	Phorate	2.0000	1.8215	8.9	15.0	
~~15~~	~~Demeton-S~~	~~1.3600~~	~~0.0937~~	~~93.1~~	~~15.0~~	~~<-~~
10	Simazine	2.0000	2.2211	11.1	15.0	
13	Atrazine / Propazine	4.0000	3.6090	9.8	15.0	
16	Dimethoate	2.0000	1.9112	4.4	15.0	
11	Diazinon	2.0000	1.7312	13.4	15.0	
14	Disulfoton	2.0000	1.8899	5.5	15.0	
23	Methyl Parathion	2.0000	1.8884	5.6	15.0	
17	Ronnel	2.0000	2.0103	0.5	15.0	
24	Malathion	2.0000	1.7017	14.9	15.0	
18	Chlorpyrifos	2.0000	1.8709	6.5	15.0	
20	Trichloronate	2.0000	1.7259	13.7	15.0	
26	Parathion	2.0000	1.9657	1.7	15.0	
19	Fenthion	2.0000	1.9078	4.6	15.0	
151	Merphos-A (Merphos)	2.0000	1.1905	40.5	999.0	
21	Anilazine	2.0000	1.1573	42.1	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.0000	1.7038	14.8	15.0	
25	Tokuthion	2.0000	1.9155	4.2	15.0	
148	Merphos-B (Merphos oxone)	2.0000	2.0651	3.3	999.0	
28	Carbophenothion methyl	2.0000	1.2678	36.6	15.0	<-
30	Fensulfothion	2.0000	1.9488	2.6	15.0	
28	Bolstar	2.0000	2.0207	1.0	15.0	
30	Carbophenothion	2.0000	1.9799	1.0	15.0	
33	Famphur	2.0000	1.9782	1.1	15.0	
29	Triphenyl phosphate	2.0000	2.0893	4.5	15.0	
32	EPN	2.0000	2.0329	1.6	15.0	
34	Phosmet	2.0000	2.0660	3.3	15.0	
34	Azinphos-methyl	2.0000	1.7858	10.7	15.0	
35	Azinphos-ethyl	2.0000	1.9627	1.9	15.0	
36	Coumaphos	2.0000	1.9237	3.8	15.0	

data not available DJW 9/30/09

data not available DJW 9/30/09

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1311	6.6	15.0
22 Merphos	2.0000	1.8093	9.5	15.0

Average %D = 16.3

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\003F0301.D
Lab Smp Id: 8141 L7 GSV1077 Client Smp ID: 8141 L7 GSV1077
Inj Date : 29-SEP-2009 12:33
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L7 GSV1077
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:30 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:59 Cal File: 007F0701.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.263	4.260	(0.313)	2029691	5.00000	4.397
	2 Dichlorvos	5.819	5.821	(0.427)	1672222	5.00000	5.047(A)
	3 Mevinphos	9.343	9.350	(0.685)	819859	5.00000	5.164(A)
$	4 Chlormefos	9.464	9.466	(0.694)	1978185	5.00000	4.610
	5 Thionazin	12.578	12.581	(0.922)	1528441	5.00000	4.495
	6 Demeton-O	12.833	12.837	(0.941)	434270	1.62500	1.492
	7 Ethoprop	13.145	13.150	(0.964)	1475254	5.00000	4.535
	8 Naled	13.427	13.431	(0.984)	571005	5.00000	5.029(A)
*	9 Tributylphosphate	13.639	13.646	(1.000)	608279	2.00000	
	10 Sulfotepp	14.103	14.105	(1.034)	1915905	5.00000	4.384
	11 Phorate	14.189	14.191	(1.040)	1353850	5.00000	4.652
	12 Dimethoate	14.356	14.366	(1.053)	1575516	5.00000	4.822
	13 Demeton-S	14.630	14.636	(1.073)	864178	3.40000	3.228
	14 Simazine	14.751	14.756	(1.082)	469988	5.00000	4.497
	15 Atrazine	14.968	14.971	(1.097)	637032	5.00000	4.961
	16 propazine	15.148	15.152	(1.111)	634425	5.00000	4.773
	17 Disulfoton	15.831	15.835	(0.585)	1174534	5.00000	4.638
	18 Diazinon	15.896	15.901	(0.588)	1438291	5.00000	4.205
	19 Methyl Parathion	16.797	16.802	(0.621)	1183337	5.00000	4.746
	20 Ronnel	17.417	17.422	(0.644)	1357486	5.00000	5.102(A)
	21 Malathion	18.091	18.094	(0.669)	946882	5.00000	4.971
	22 Fenthion	18.246	18.250	(0.674)	1181597	5.00000	4.812
	23 Parathion	18.353	18.360	(0.678)	1129725	5.00000	4.864
	24 Chlorpyrifos	18.411	18.416	(0.681)	1608684	5.00000	4.432
	25 Trichloronate	18.915	18.921	(0.699)	1577851	5.00000	4.956
	26 Anilazine	19.317	19.331	(0.714)	72734	5.00000	5.249(AM)
	27 Merphos-A (Merphos)	19.760	19.763	(0.730)	569663	5.00000	4.821
	28 Tetrachlorvinphos (Stirophos)	20.474	20.483	(0.757)	992586	5.00000	4.927
	29 Tokuthion	21.231	21.237	(0.785)	1372371	5.00000	4.938
	30 Merphos-B (Merphos Oxone)	21.481	21.486	(0.794)	711748	5.00000	3.362
	31 Carbophenothion-methyl	22.210	22.219	(0.821)	1019566	5.00000	4.972
	32 Fensulfothion	22.385	22.401	(0.827)	1083760	5.00000	4.805
	33 Bolstar / Famphur	23.571	23.575	(0.871)	2168160	10.0000	9.422

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.891	23.899	(0.883)	1114078	5.00000	4.752
$	35 Triphenyl phosphate	25.220	25.226	(0.932)	913461	5.00000	4.773(A)
	36 Phosmet	25.737	25.748	(0.951)	881528	5.00000	4.872
	37 EPN	26.069	26.075	(0.964)	1075540	5.00000	4.692
	38 Azinphos-methyl	26.562	26.574	(0.982)	902800	5.00000	4.797
*	39 TOCP	27.055	27.058	(1.000)	409558	2.00000	
	40 Azinphos-ethyl	27.154	27.159	(1.004)	956909	5.00000	4.580
	41 Coumaphos	27.679	27.686	(1.023)	924152	5.00000	4.962
M	42 Total Demeton				1298448	5.00000	4.720
M	43 Merphos				1281411	5.00000	4.689

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

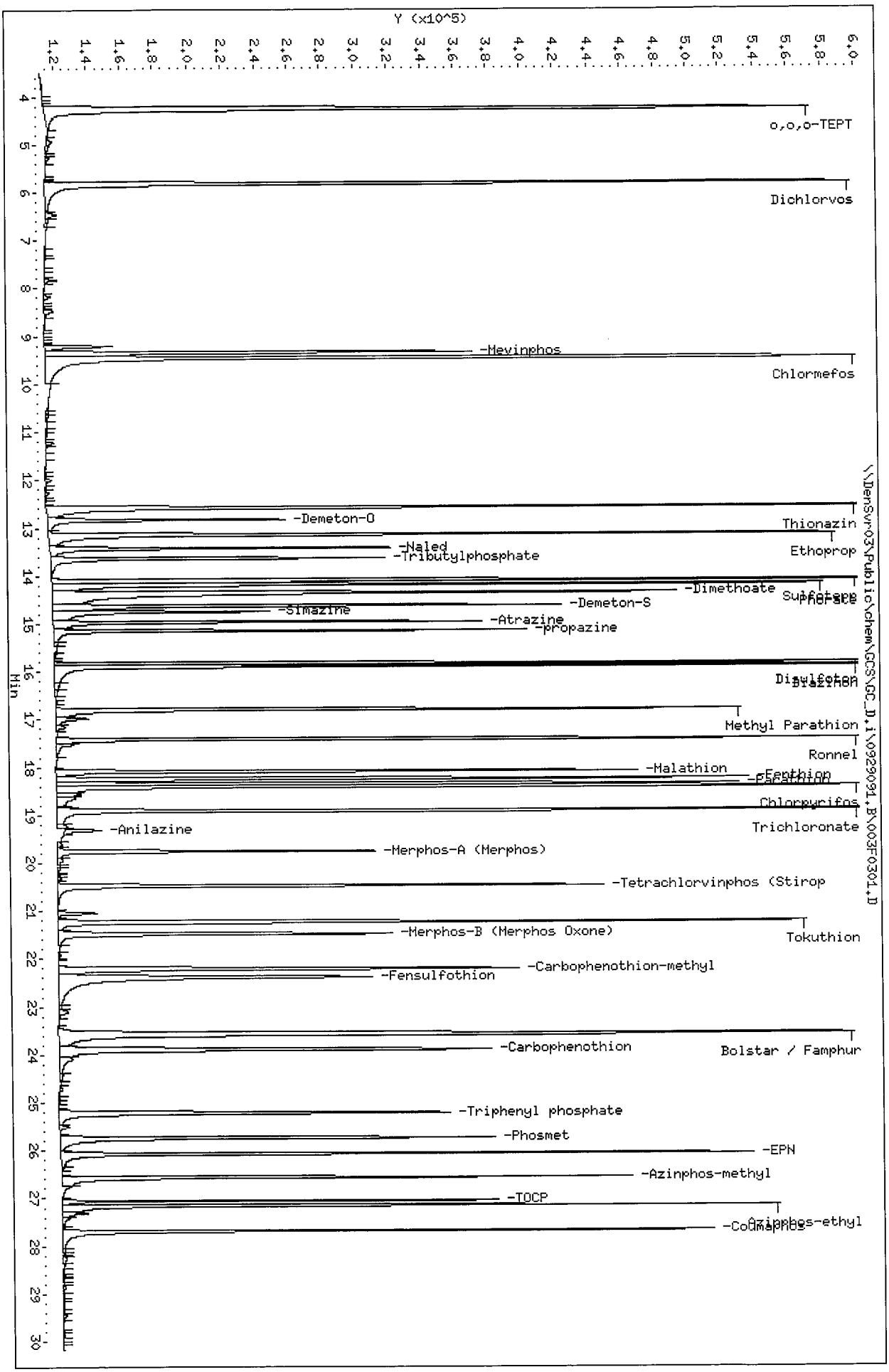
Instrument ID: GC_D.i
Lab File ID: 003F0301.D
Lab Smp Id: 8141 L7 GSV1077
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L7 GSV1077
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	608279	-18.24
39 TOCP	484260	242130	968520	409558	-15.43

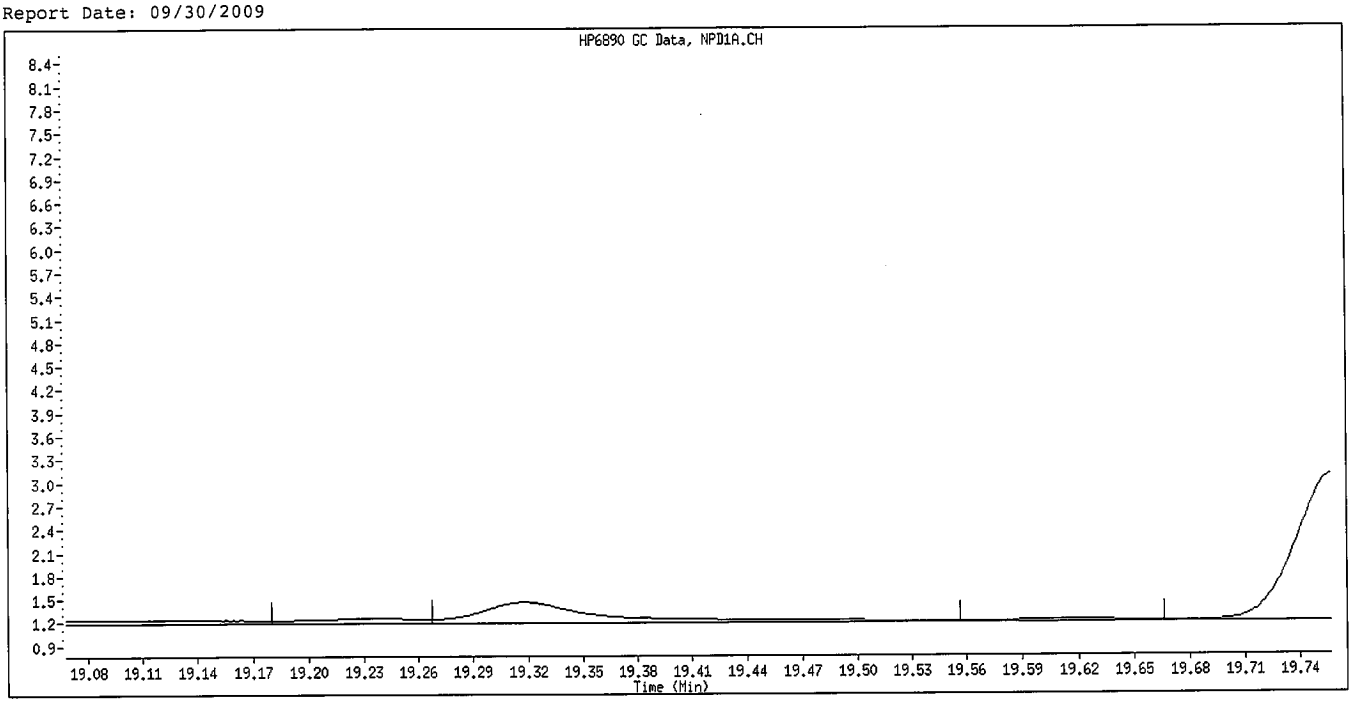
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.64	0.01
39 TOCP	27.06	26.56	27.56	27.06	-0.00

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.

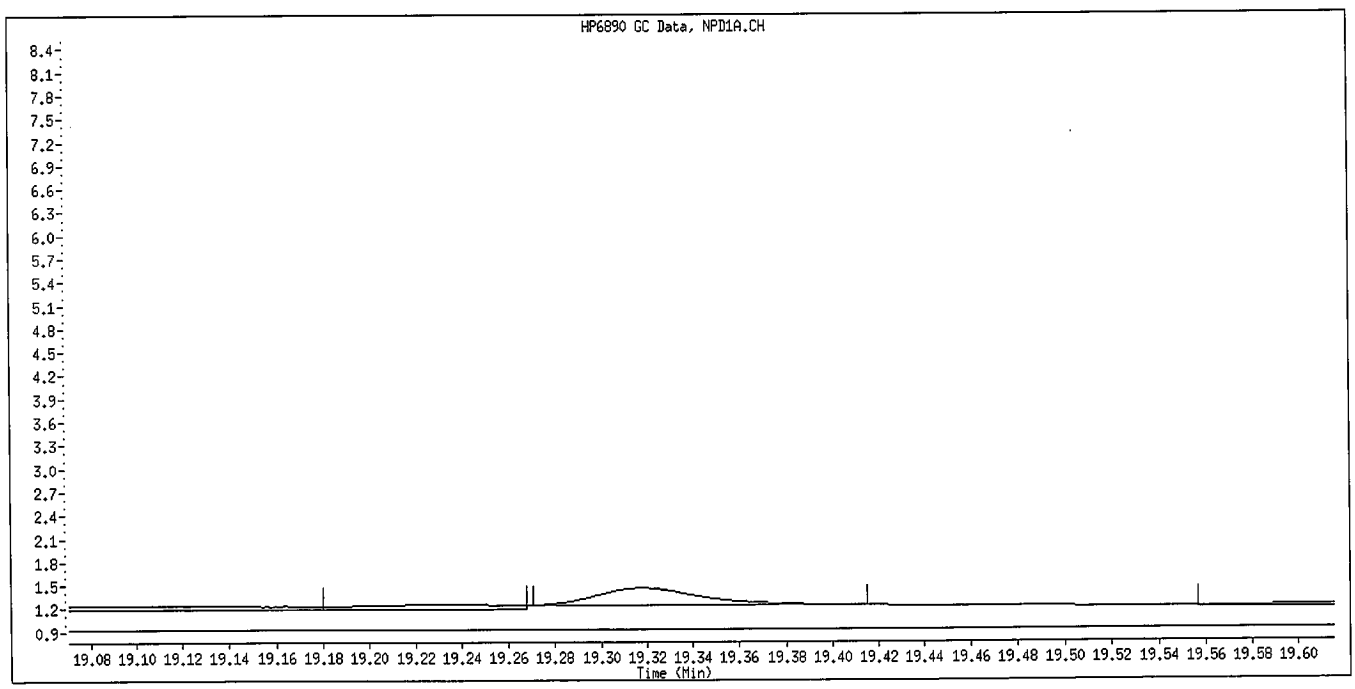


Data File: \\DenSvr03\Public\chem\GCS\GC_D_i\0929091_B\003F0301.D
Date : 29-SEP-2009 12:33
Client ID: 8141 L7 GSV1077
Sample Info: 8141 L7 GSV1077
Column phase: RTx-1MS
Instrument: GC_D_i
Operator: TLW
Column diameter: 0.32

Data File Name: 003F0301.D
Inj. Date and Time: 29-SEP-2009 12:33
Instrument ID: GC_D.i
Client ID: 8141 L7 GSV1077
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Lab Smp Id: 8141 L6 GSV1078 Client Smp ID: 8141 L6 GSV1078
Inj Date : 29-SEP-2009 13:09
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L6 GSV1078
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:30 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 12:33 Cal File: 003F0301.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.265	4.260	(0.313)	1595520	4.00000	3.810
	2 Dichlorvos	5.821	5.821	(0.427)	1232758	4.00000	4.102
	3 Mevinphos	9.346	9.350	(0.685)	602352	4.00000	4.214
$	4 Chlormefos	9.465	9.466	(0.694)	1533805	4.00000	3.941
	5 Thionazin	12.579	12.581	(0.922)	1175630	4.00000	3.825
	6 Demeton-O	12.835	12.837	(0.941)	345285	1.30000	1.308
	7 Ethoprop	13.146	13.150	(0.964)	1147081	4.00000	3.892
	8 Naled	13.428	13.431	(0.984)	423022	4.00000	4.134
*	9 Tributylphosphate	13.641	13.646	(1.000)	551746	2.00000	
	10 Sulfotepp	14.103	14.105	(1.034)	1491687	4.00000	3.763
	11 Phorate	14.188	14.191	(1.040)	1060353	4.00000	3.996
	12 Dimethoate	14.361	14.366	(1.053)	1193294	4.00000	4.060
	13 Demeton-S	14.631	14.636	(1.073)	664552	2.72000	2.728
	14 Simazine	14.751	14.756	(1.081)	363208	4.00000	3.831
	15 Atrazine	14.967	14.971	(1.097)	470380	4.00000	4.038
	16 propazine	15.148	15.152	(1.111)	475496	4.00000	3.944
	17 Disulfoton	15.832	15.835	(0.585)	902155	4.00000	4.034
	18 Diazinon	15.897	15.901	(0.588)	1139164	4.00000	3.759
	19 Methyl Parathion	16.798	16.802	(0.621)	900226	4.00000	4.086
	20 Ronnel	17.419	17.422	(0.644)	986468	4.00000	4.198
	21 Malathion	18.091	18.094	(0.669)	725218	4.00000	4.296
	22 Fenthion	18.245	18.250	(0.674)	893955	4.00000	4.121
	23 Parathion	18.356	18.360	(0.678)	833868	4.00000	4.084
	24 Chlorpyrifos	18.413	18.416	(0.681)	1221063	4.00000	3.797
	25 Trichloronate	18.918	18.921	(0.699)	1161418	4.00000	4.129
	26 Anilazine	19.318	19.331	(0.714)	51752	4.00000	4.269(M)
	27 Merphos-A (Merphos)	19.761	19.763	(0.730)	390389	4.00000	4.348
	28 Tetrachlorvinphos (Stirophos)	20.478	20.483	(0.757)	712949	4.00000	4.116
	29 Tokuthion	21.233	21.237	(0.785)	1022545	4.00000	4.159
	30 Merphos-B (Merphos Oxone)	21.486	21.486	(0.794)	602089	4.00000	3.209
	31 Carbophenothion-methyl	22.211	22.219	(0.821)	756521	4.00000	4.177
	32 Fensulfothion	22.391	22.401	(0.828)	828723	4.00000	4.160
	33 Bolstar / Famphur	23.571	23.575	(0.871)	1654375	8.00000	8.126

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.897	23.899	(0.883)	846237	4.00000	4.077
$	35 Triphenyl phosphate	25.221	25.226	(0.932)	690215	4.00000	4.077(A)
	36 Phosmet	25.744	25.748	(0.951)	660771	4.00000	4.131
	37 EPN	26.073	26.075	(0.964)	822064	4.00000	4.050
	38 Azinphos-methyl	26.566	26.574	(0.982)	687141	4.00000	4.131
*	39 TOCP	27.056	27.058	(1.000)	362910	2.00000	
	40 Azinphos-ethyl	27.156	27.159	(1.004)	731616	4.00000	3.952
	41 Coumaphos	27.684	27.686	(1.023)	685194	4.00000	4.162
M	42 Total Demeton				1009837	4.00000	4.036
M	43 Merphos				992478	4.00000	4.102

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

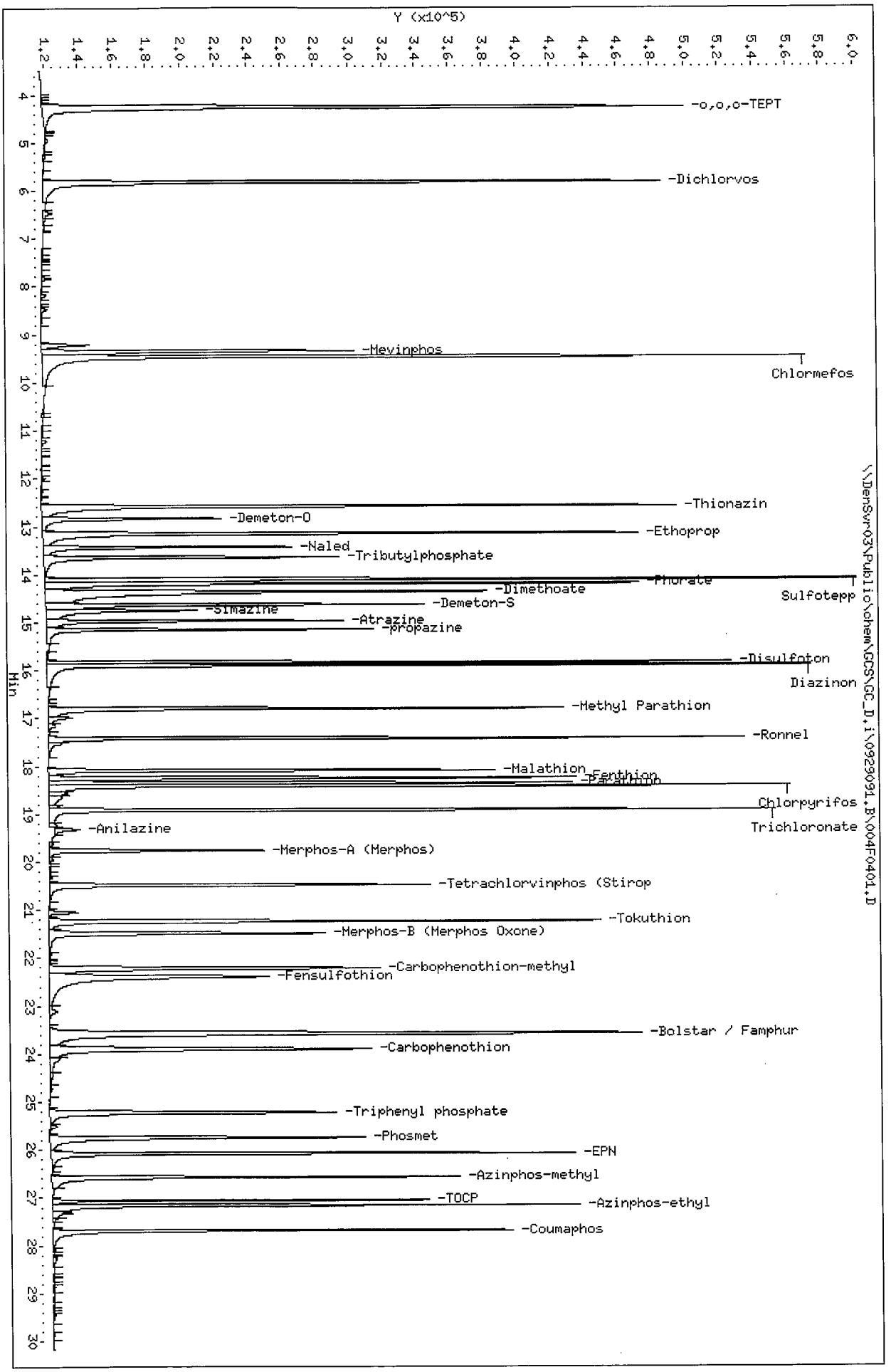
Instrument ID: GC_D.i
Lab File ID: 004F0401.D
Lab Smp Id: 8141 L6 GSV1078
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L6 GSV1078
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	551746	-25.84
39 TOCP	484260	242130	968520	362910	-25.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.64	0.02
39 TOCP	27.06	26.56	27.56	27.06	0.00

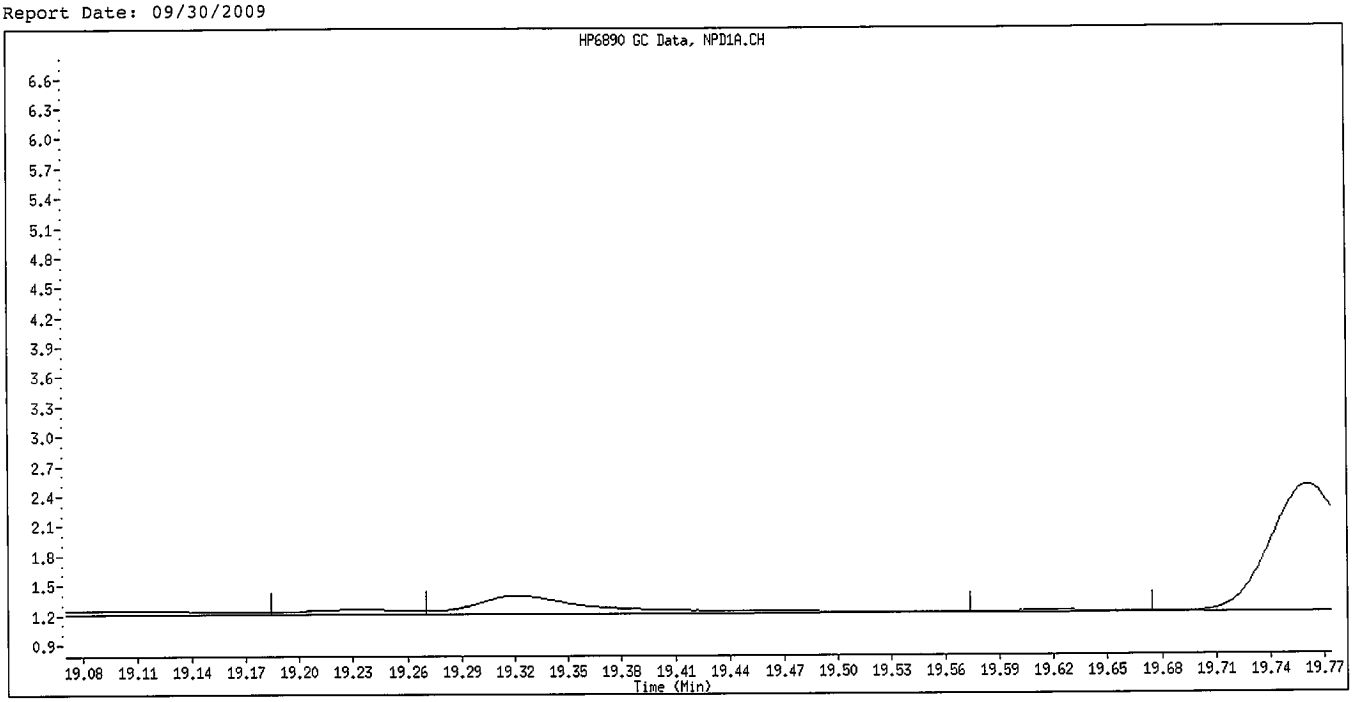
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



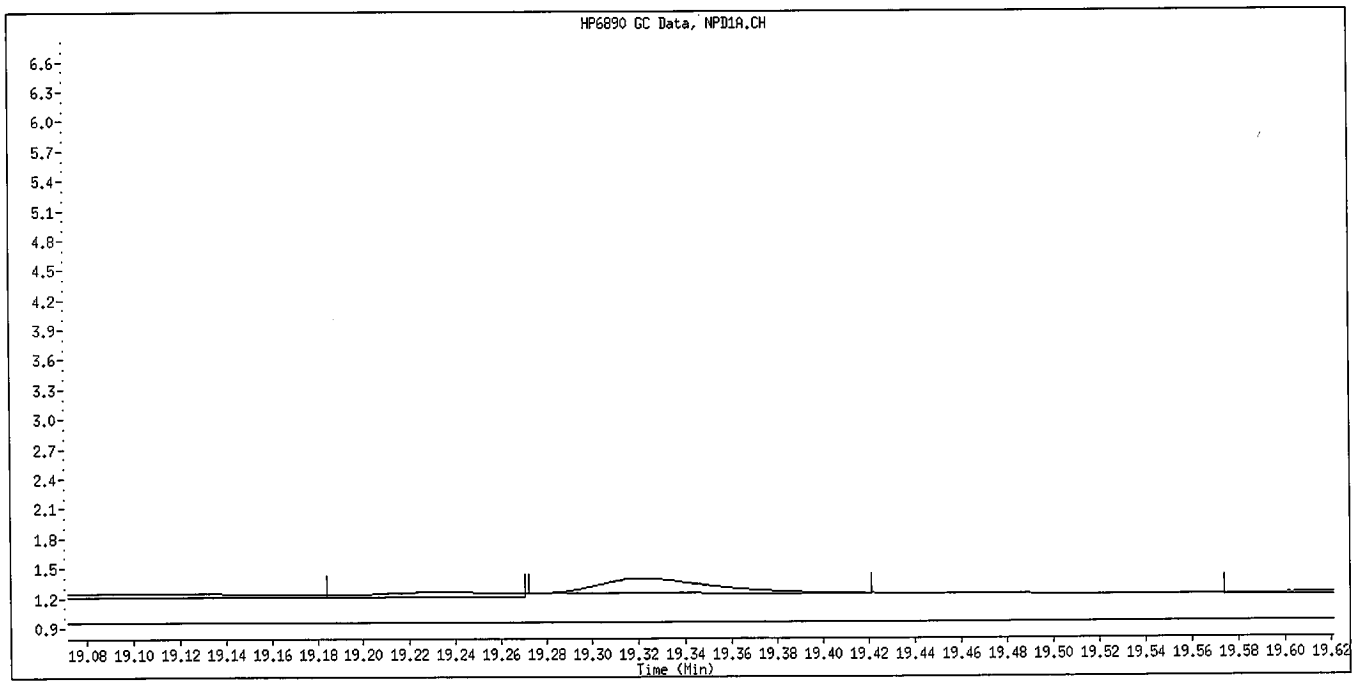
Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Date : 29-SEP-2009 13:09
Client ID: 8141 L6 GSV1078
Sample Info: 8141 L6 GSV1078
Column phase: RTx-1MS

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

Data File Name: 004F0401.D
Inj. Date and Time: 29-SEP-2009 13:09
Instrument ID: GC_D.i
Client ID: 8141 L6 GSV1078
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Lab Smp Id: 8141 L5 GSV1079 Client Smp ID: 8141 L5 GSV1079
Inj Date : 29-SEP-2009 13:46
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L5 GSV1079
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:30 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:09 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.259	4.260	(0.312)	1175499	3.00000	3.070
	2 Dichlorvos	5.820	5.821	(0.427)	855667	3.00000	3.114
	3 Mevinphos	9.349	9.350	(0.685)	402659	3.00000	3.125
$	4 Chlormefos	9.465	9.466	(0.694)	1077363	3.00000	3.027
	5 Thionazin	12.581	12.581	(0.922)	833121	3.00000	2.985
	6 Demeton-O	12.837	12.837	(0.941)	243630	0.97500	1.011
	7 Ethoprop	13.149	13.150	(0.964)	815624	3.00000	3.034
	8 Naled	13.431	13.431	(0.984)	292094	3.00000	3.157
*	9 Tributylphosphate	13.645	13.646	(1.000)	504503	2.00000	
	10 Sulfotepp	14.104	14.105	(1.034)	1081308	3.00000	2.983
	11 Phorate	14.191	14.191	(1.040)	765652	3.00000	3.124
	12 Dimethoate	14.366	14.366	(1.053)	808318	3.00000	3.061
	13 Demeton-S	14.636	14.636	(1.073)	469949	2.04000	2.096
	14 Simazine	14.755	14.756	(1.081)	257194	3.00000	2.967
	15 Atrazine	14.970	14.971	(1.097)	318911	3.00000	2.994
	16 propazine	15.152	15.152	(1.110)	322259	3.00000	2.923
	17 Disulfoton	15.834	15.835	(0.585)	637297	3.00000	3.112
	18 Diazinon	15.900	15.901	(0.588)	810958	3.00000	2.898
	19 Methyl Parathion	16.802	16.802	(0.621)	624051	3.00000	3.088
	20 Ronnel	17.422	17.422	(0.644)	655015	3.00000	3.040
	21 Malathion	18.093	18.094	(0.669)	507888	3.00000	3.259
	22 Fenthion	18.249	18.250	(0.674)	617147	3.00000	3.103
	23 Parathion	18.359	18.360	(0.679)	575984	3.00000	3.105
	24 Chlorpyrifos	18.415	18.416	(0.681)	834429	3.00000	2.810
	25 Trichloronate	18.920	18.921	(0.699)	784208	3.00000	3.039
	26 Anilazine	19.330	19.331	(0.714)	30638	3.00000	2.835(M)
	27 Merphos-A (Merphos)	19.763	19.763	(0.730)	171288	3.00000	2.810
	28 Tetrachlorvinphos (Stirophos)	20.483	20.483	(0.757)	464319	3.00000	3.030
	29 Tokuthion	21.237	21.237	(0.785)	700700	3.00000	3.098
	30 Merphos-B (Merphos Oxone)	21.485	21.486	(0.794)	522702	3.00000	3.018
	31 Carbophenothion-methyl	22.218	22.219	(0.821)	518631	3.00000	3.123
	32 Fensulfothion	22.401	22.401	(0.828)	574661	3.00000	3.149
	33 Bolstar / Famphur	23.574	23.575	(0.871)	1162399	6.00000	6.207

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.898	23.899	(0.883)	583033	3.00000	3.048
$	35 Triphenyl phosphate	25.226	25.226	(0.932)	483386	3.00000	3.104(A)
	36 Phosmet	25.748	25.748	(0.952)	461134	3.00000	3.138
	37 EPN	26.074	26.075	(0.964)	584842	3.00000	3.125
	38 Azinphos-methyl	26.573	26.574	(0.982)	489484	3.00000	3.205
*	39 TOCP	27.058	27.058	(1.000)	335006	2.00000	
	40 Azinphos-ethyl	27.158	27.159	(1.004)	519281	3.00000	3.038
	41 Coumaphos	27.685	27.686	(1.023)	472023	3.00000	3.122
M	42 Total Demeton				713579	3.00000	3.107
M	43 Merphos				693990	3.00000	3.113

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

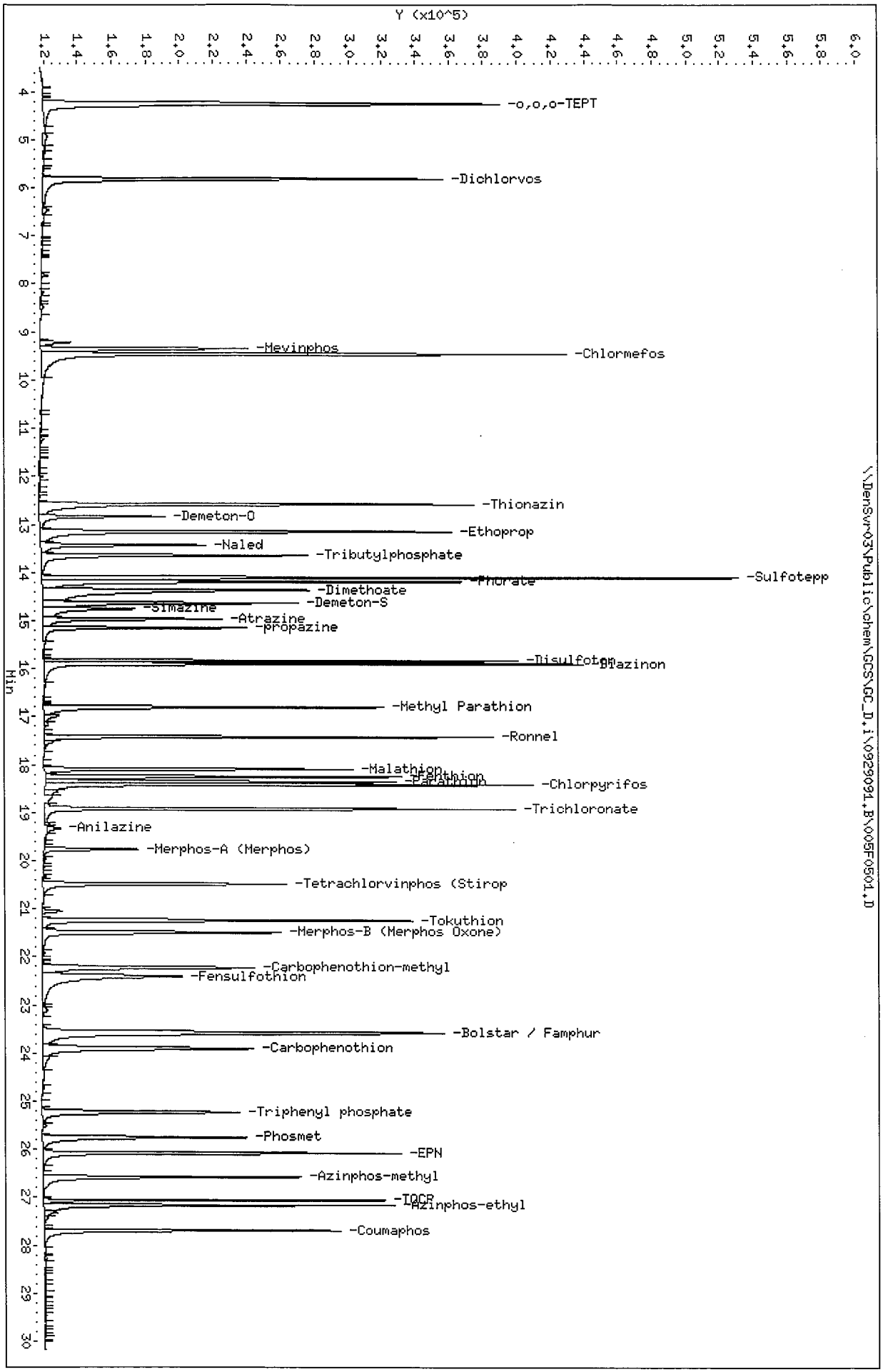
Instrument ID: GC_D.i
Lab File ID: 005F0501.D
Lab Smp Id: 8141 L5 GSV1079
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L5 GSV1079
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	504503	-32.19
39 TOCP	484260	242130	968520	335006	-30.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.05
39 TOCP	27.06	26.56	27.56	27.06	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.

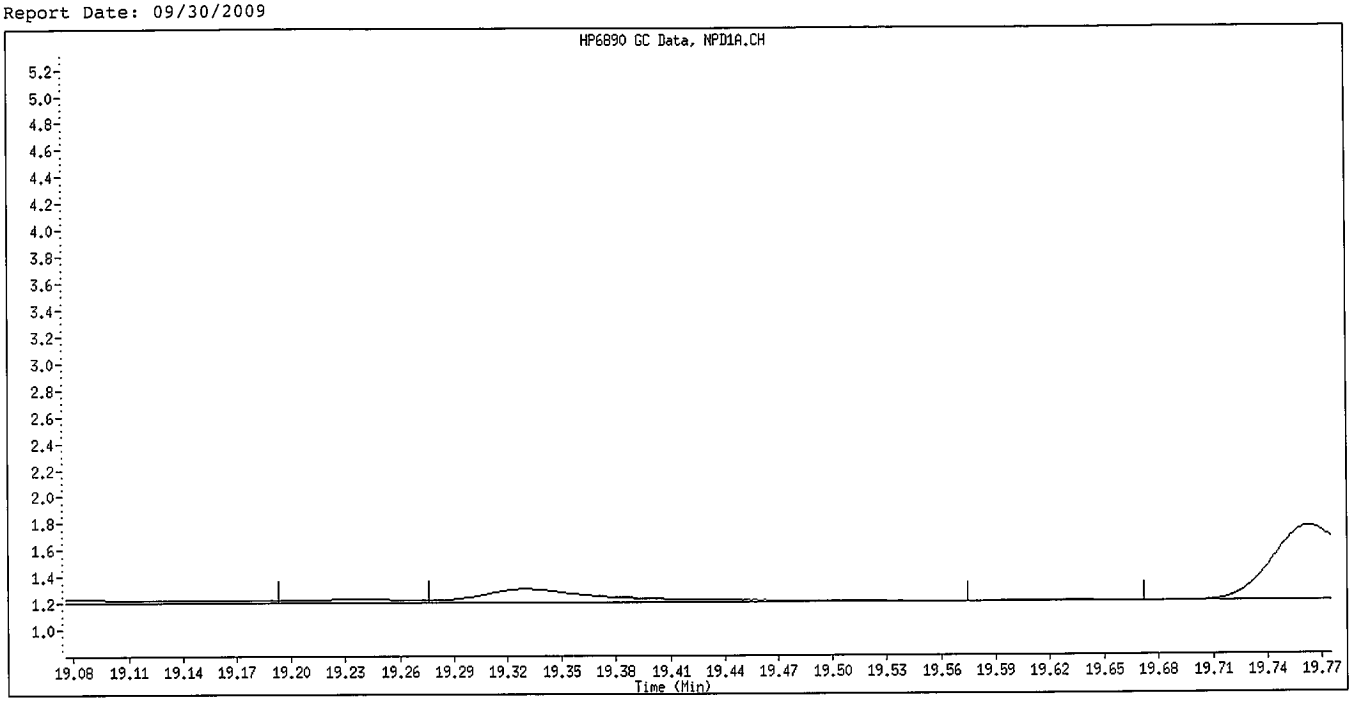


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Date : 29-SEP-2009 13:46
Client ID: 8141 L5 GSV1079
Sample Info: 8141 L5 GSV1079
Column phase: RTx-1MS

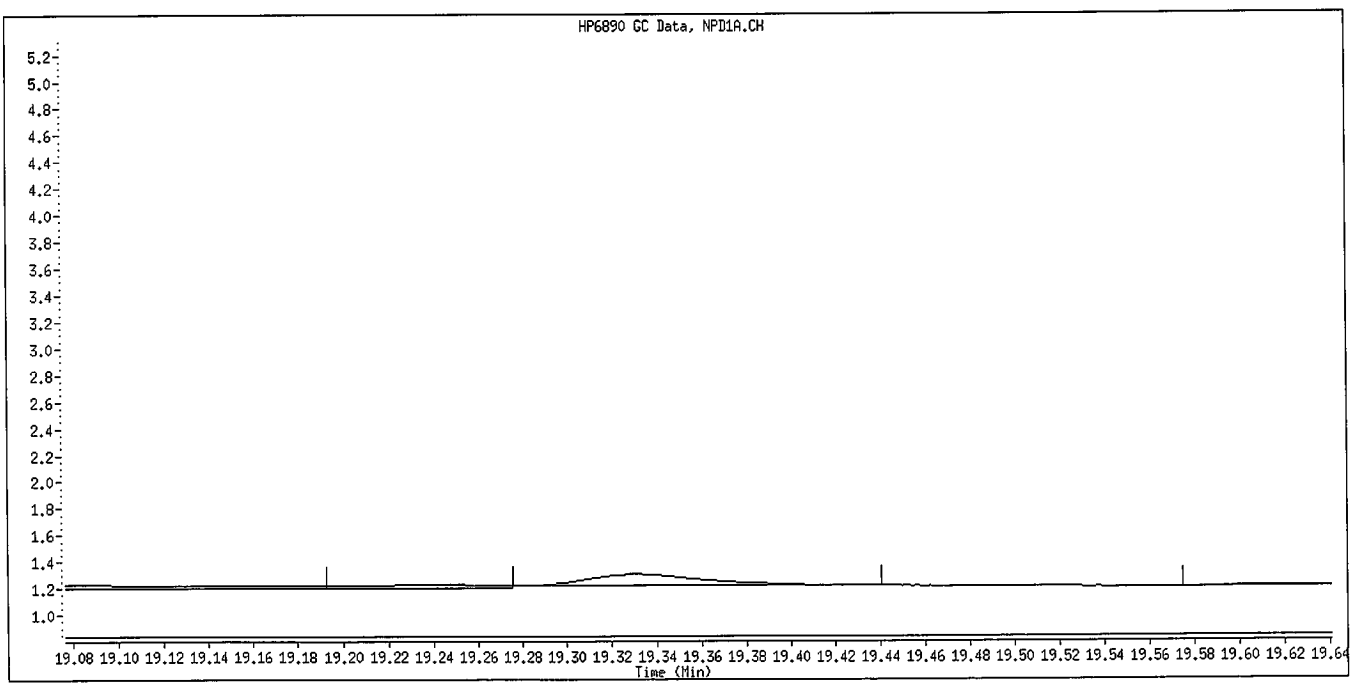
\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

Data File Name: 005F0501.D
Inj. Date and Time: 29-SEP-2009 13:46
Instrument ID: GC_D.i
Client ID: 8141 L5 GSV1079
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Lab Smp Id: 8141 L4 GSV1080 Client Smp ID: 8141 L4 GSV1080
Inj Date : 29-SEP-2009 14:22
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L4 GSV1080
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:46 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.260	4.260	(0.312)	790763	2.00000	1.966
	2 Dichlorvos	5.821	5.821	(0.427)	548853	2.00000	1.902
	3 Mevinphos	9.352	9.350	(0.685)	248213	2.00000	1.902
$	4 Chlormefos	9.464	9.466	(0.694)	744173	2.00000	1.991
	5 Thionazin	12.581	12.581	(0.922)	563076	2.00000	1.953
	6 Demeton-O	12.837	12.837	(0.941)	165026	0.65000	0.6542
	7 Ethoprop	13.150	13.150	(0.964)	553642	2.00000	1.972
	8 Naled	13.432	13.431	(0.984)	178502	2.00000	1.898
*	9 Tributylphosphate	13.645	13.646	(1.000)	529892	2.00000	
	10 Sulfotepp	14.105	14.105	(1.034)	748275	2.00000	1.966
	11 Phorate	14.190	14.191	(1.040)	533826	2.00000	2.024
	12 Dimethoate	14.376	14.366	(1.054)	510687	2.00000	1.923
	13 Demeton-S	14.640	14.636	(1.073)	321884	1.36000	1.346
	14 Simazine	14.756	14.756	(1.081)	173554	2.00000	1.906
	15 Atrazine	14.970	14.971	(1.097)	212618	2.00000	1.901
	16 propazine	15.151	15.152	(1.110)	216365	2.00000	1.868
	17 Disulfoton	15.834	15.835	(0.585)	430185	2.00000	1.996
	18 Diazinon	15.900	15.901	(0.588)	568178	2.00000	1.892
	19 Methyl Parathion	16.803	16.802	(0.621)	413467	2.00000	1.937
	20 Ronnel	17.422	17.422	(0.644)	431001	2.00000	1.892
	21 Malathion	18.095	18.094	(0.669)	347255	2.00000	2.076
	22 Fenthion	18.248	18.250	(0.674)	415453	2.00000	1.977
	23 Parathion	18.360	18.360	(0.679)	364258	2.00000	1.910
	24 Chlorpyrifos	18.414	18.416	(0.681)	592819	2.00000	1.860
	25 Trichloronate	18.920	18.921	(0.699)	514604	2.00000	1.886
	26 Anilazine	19.339	19.331	(0.715)	18930	2.00000	1.747(M)
	27 Merphos-A (Merphos)	19.763	19.763	(0.730)	99237	2.00000	1.906
	28 Tetrachlorvinphos (Stirophos)	20.485	20.483	(0.757)	293015	2.00000	1.889
	29 Tokuthion	21.240	21.237	(0.785)	463539	2.00000	1.926
	30 Merphos-B (Merphos Oxone)	21.488	21.486	(0.794)	375728	2.00000	2.021
	31 Carbophenothion-methyl	22.220	22.219	(0.821)	337052	2.00000	1.923
	32 Fensulfothion	22.412	22.401	(0.828)	382549	2.00000	1.990
	33 Bolstar / Famphur	23.578	23.575	(0.871)	780681	4.00000	3.917

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.904	23.899	(0.883)	394500	2.00000	1.930
$	35 Triphenyl phosphate	25.228	25.226	(0.932)	326923	2.00000	1.973
	36 Phosmet	25.755	25.748	(0.952)	301111	2.00000	1.934
	37 EPN	26.077	26.075	(0.964)	394014	2.00000	1.969
	38 Azinphos-methyl	26.576	26.574	(0.982)	317670	2.00000	1.968
*	39 TOCP	27.058	27.058	(1.000)	359599	2.00000	
	40 Azinphos-ethyl	27.164	27.159	(1.004)	347398	2.00000	1.894
	41 Coumaphos	27.690	27.686	(1.023)	305626	2.00000	1.909
M	42 Total Demeton				486910	2.00000	2.000
M	43 Merphos				474965	2.00000	1.994

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

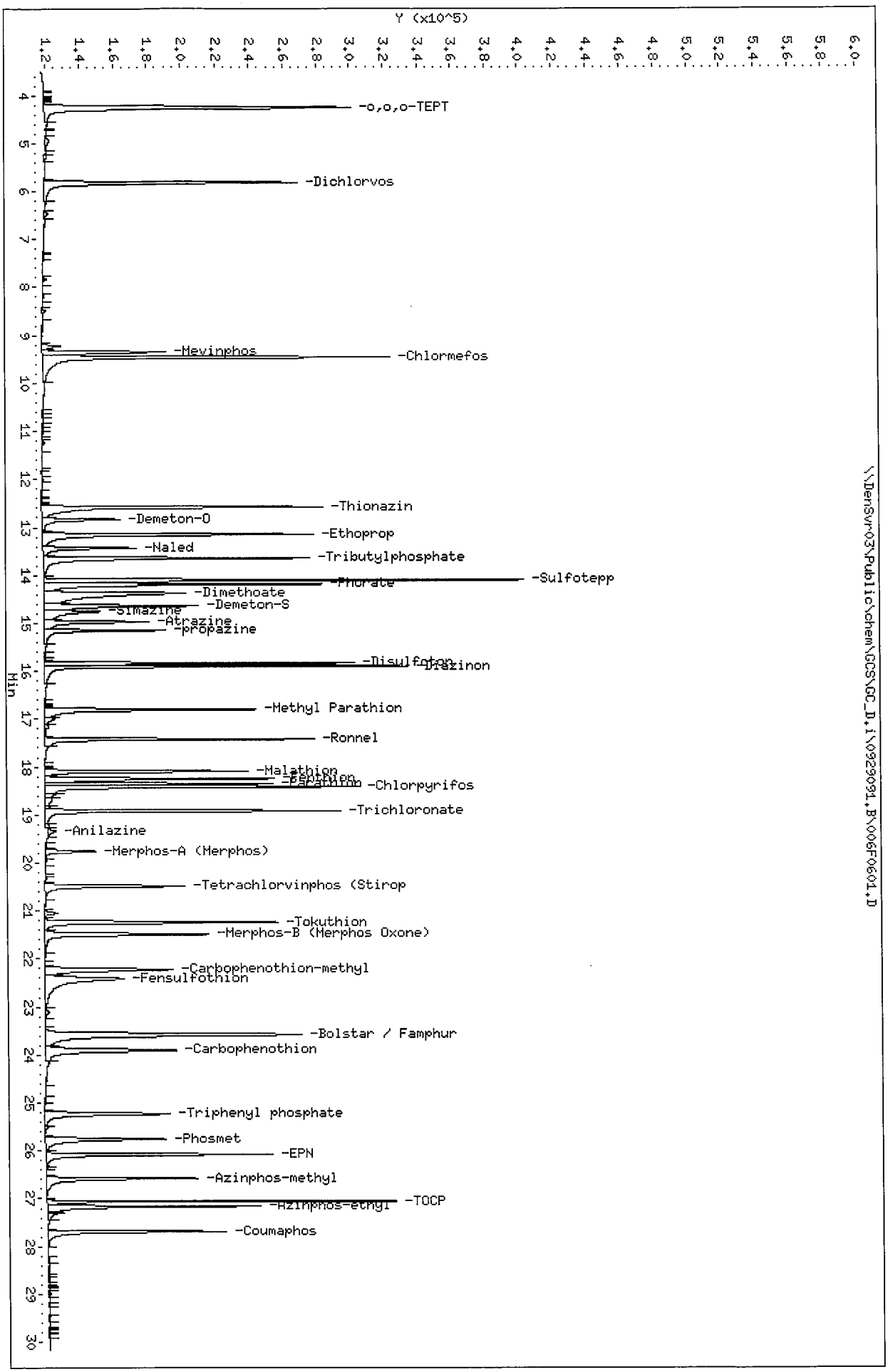
Instrument ID: GC_D.i
Lab File ID: 006F0601.D
Lab Smp Id: 8141 L4 GSV1080
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L4 GSV1080
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	529892	-28.78
39 TOCP	484260	242130	968520	359599	-25.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.05
39 TOCP	27.06	26.56	27.56	27.06	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.

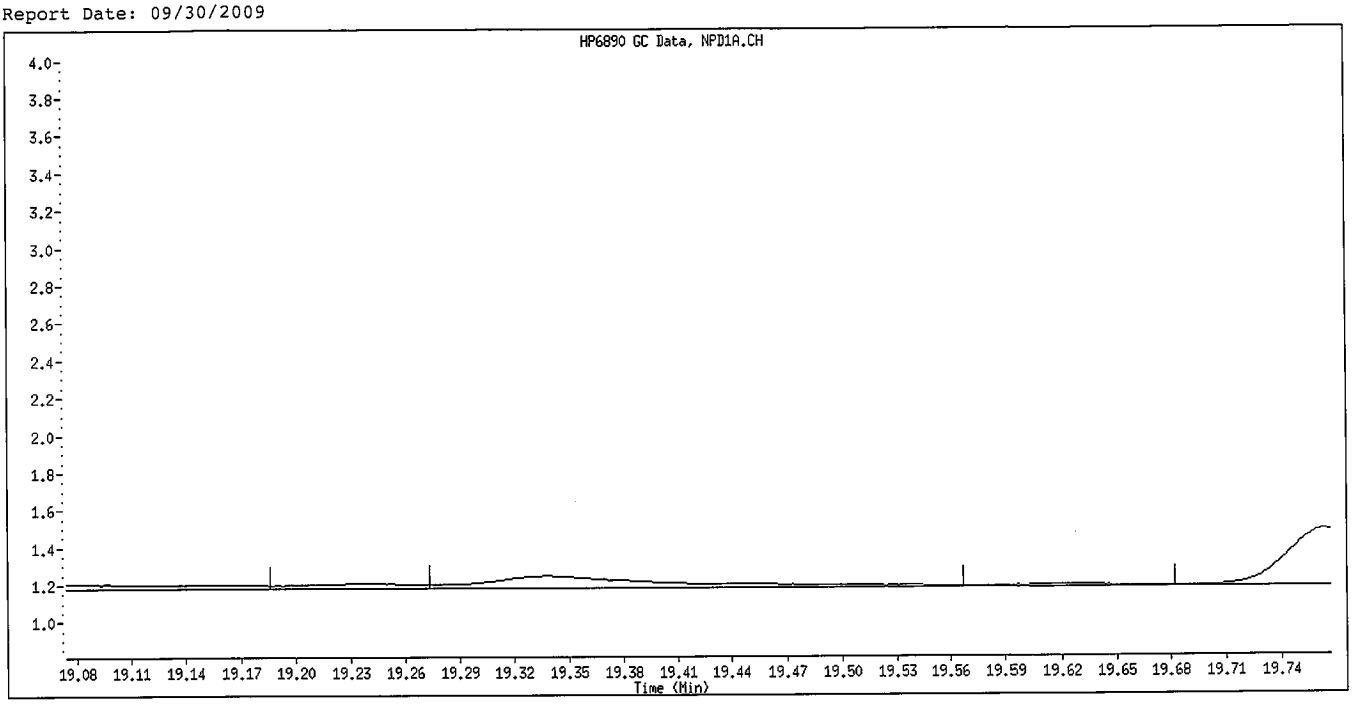


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\092909I,B\006F0601.D
Date : 29-SEP-2009 14:22
Client ID: 8141 L4 GSV1080
Sample Info: 8141 L4 GSV1080
Column phase: RTx-1MS

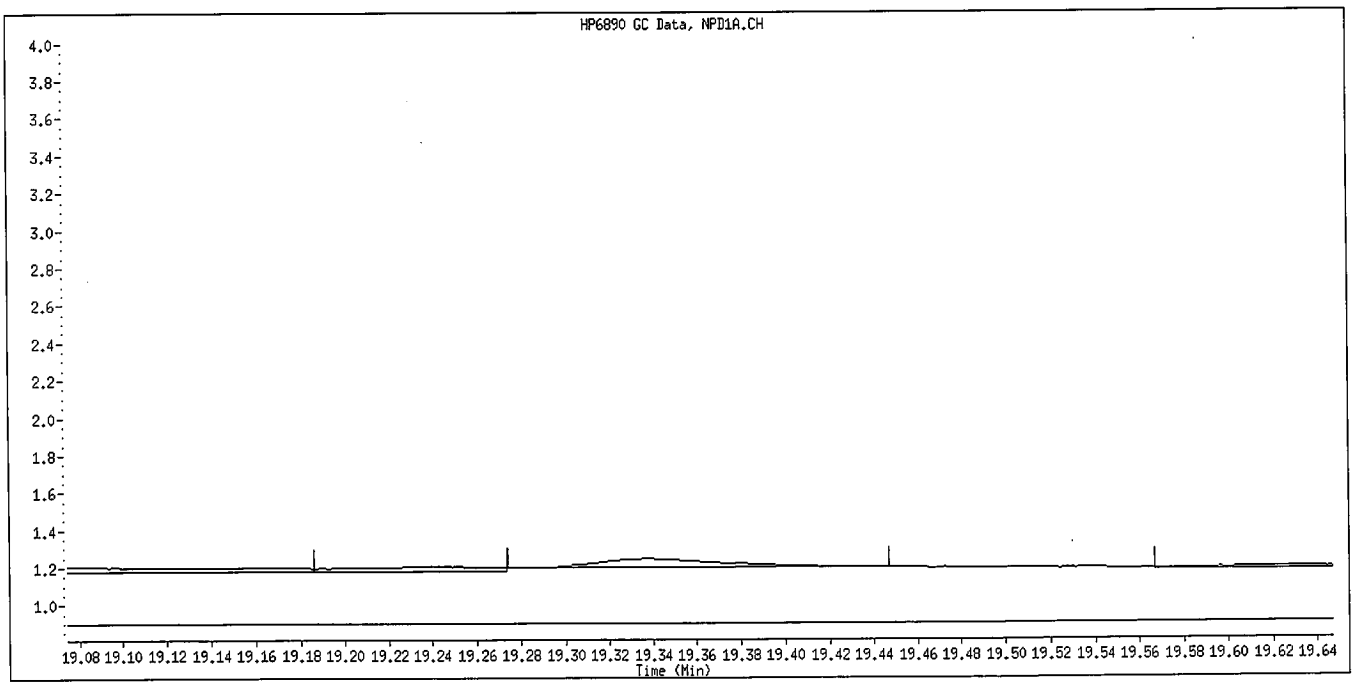
\\DenSvr03\Public\chem\GCS\GC_D,i\092909I,B\006F0601.D

Instrument: GC_D,i
Operator: TLM
Column diameter: 0.32

Data File Name: 006F0601.D
Inj. Date and Time: 29-SEP-2009 14:22
Instrument ID: GC_D.i
Client ID: 8141 L4 GSV1080
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Lab Smp Id: 8141 L3 GSV1081 Client Smp ID: 8141 L3 GSV1081
Inj Date : 29-SEP-2009 14:59
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L3 GSV1081
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:22 Cal File: 006F0601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.263	4.260	(0.312)	406277	1.00000	1.119
	2 Dichlorvos	5.826	5.821	(0.427)	273255	1.00000	1.049
	3 Mevinphos	9.361	9.350	(0.686)	104479	1.00000	0.9754
$	4 Chlormefos	9.465	9.466	(0.693)	388944	1.00000	1.153
	5 Thionazin	12.589	12.581	(0.922)	280712	1.00000	1.119
	6 Demeton-O	12.840	12.837	(0.940)	84853	0.32500	0.3755
	7 Ethoprop	13.158	13.150	(0.964)	278033	1.00000	1.112
	8 Naled	13.437	13.431	(0.984)	78159	1.00000	0.9957
*	9 Tributylphosphate	13.654	13.646	(1.000)	478243	2.00000	
	10 Sulfotepp	14.108	14.105	(1.033)	385386	1.00000	1.122
	11 Phorate	14.194	14.191	(1.040)	291306	1.00000	1.164
	12 Dimethoate	14.405	14.366	(1.055)	226488	1.00000	1.050
	13 Demeton-S	14.654	14.636	(1.073)	162056	0.68000	0.7245
	14 Simazine	14.775	14.756	(1.082)	92100	1.00000	1.121
	15 Atrazine	14.984	14.971	(1.097)	106361	1.00000	1.053
	16 propazine	15.161	15.152	(1.110)	106249	1.00000	1.017
	17 Disulfoton	15.842	15.835	(0.585)	206154	1.00000	1.061
	18 Diazinon	15.906	15.901	(0.588)	309445	1.00000	1.086
	19 Methyl Parathion	16.818	16.802	(0.621)	198723	1.00000	1.021
	20 Ronnel	17.431	17.422	(0.644)	207764	1.00000	0.9971
	21 Malathion	18.100	18.094	(0.669)	172416	1.00000	1.087
	22 Fenthion	18.261	18.250	(0.675)	197350	1.00000	1.032
	23 Parathion	18.374	18.360	(0.679)	164552	1.00000	1.012
	24 Chlorpyrifos	18.424	18.416	(0.681)	337904	1.00000	1.118
	25 Trichloronate	18.928	18.921	(0.699)	246154	1.00000	0.9866
	26 Anilazine	19.359	19.331	(0.715)	9122	1.00000	1.021(M)
	27 Merphos-A (Merphos)	19.769	19.763	(0.731)	19841	1.00000	0.9322(M)
	28 Tetrachlorvinphos (Stirophos)	20.499	20.483	(0.758)	132732	1.00000	0.9938
	29 Tokuthion	21.248	21.237	(0.785)	227163	1.00000	1.015
	30 Merphos-B (Merphos Oxone)	21.499	21.486	(0.794)	211002	1.00000	1.196
	31 Carbophenothion-methyl	22.239	22.219	(0.822)	158754	1.00000	0.9964
	32 Fensulfothion	22.445	22.401	(0.829)	170156	1.00000	0.9845
	33 Bolstar / Famphur	23.589	23.575	(0.872)	392428	2.00000	2.119

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.917	23.899	(0.884)	205286	1.00000	1.069
$	35 Triphenyl phosphate	25.240	25.226	(0.933)	159284	1.00000	1.036
	36 Phosmet	25.769	25.748	(0.952)	146573	1.00000	1.023
	37 EPN	26.083	26.075	(0.964)	194560	1.00000	1.034
	38 Azinphos-methyl	26.590	26.574	(0.983)	149459	1.00000	1.015
*	39 TOCP	27.061	27.058	(1.000)	341094	2.00000	
	40 Azinphos-ethyl	27.172	27.159	(1.004)	184090	1.00000	1.058
	41 Coumaphos	27.698	27.686	(1.024)	149836	1.00000	1.017
M	42 Total Demeton				246909	1.00000	1.100
M	43 Merphos				230843	1.00000	1.034

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

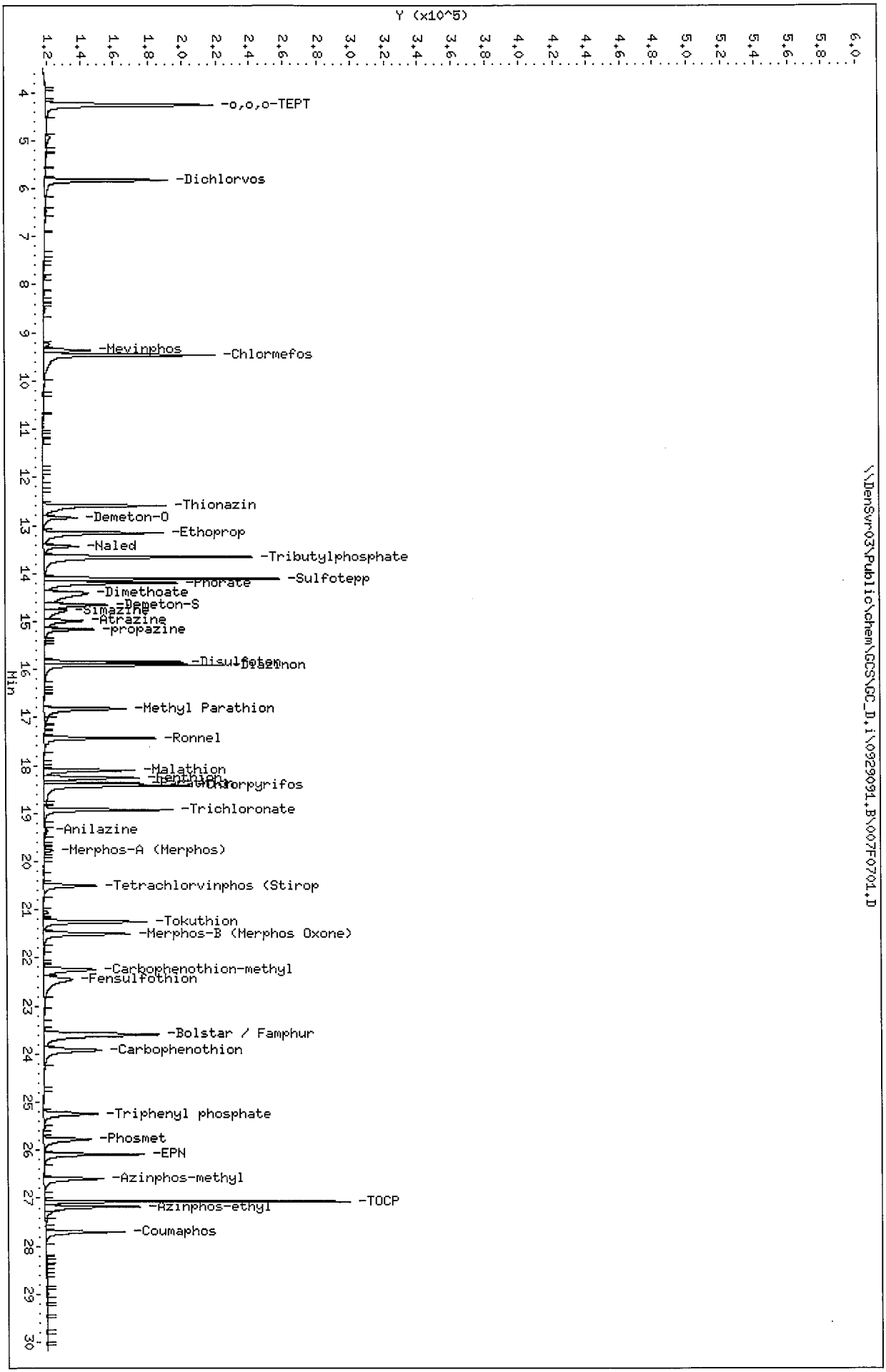
Instrument ID: GC_D.i
Lab File ID: 007F0701.D
Lab Smp Id: 8141 L3 GSV1081
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L3 GSV1081
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	478243	-35.72
39 TOCP	484260	242130	968520	341094	-29.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.12
39 TOCP	27.06	26.56	27.56	27.06	0.02

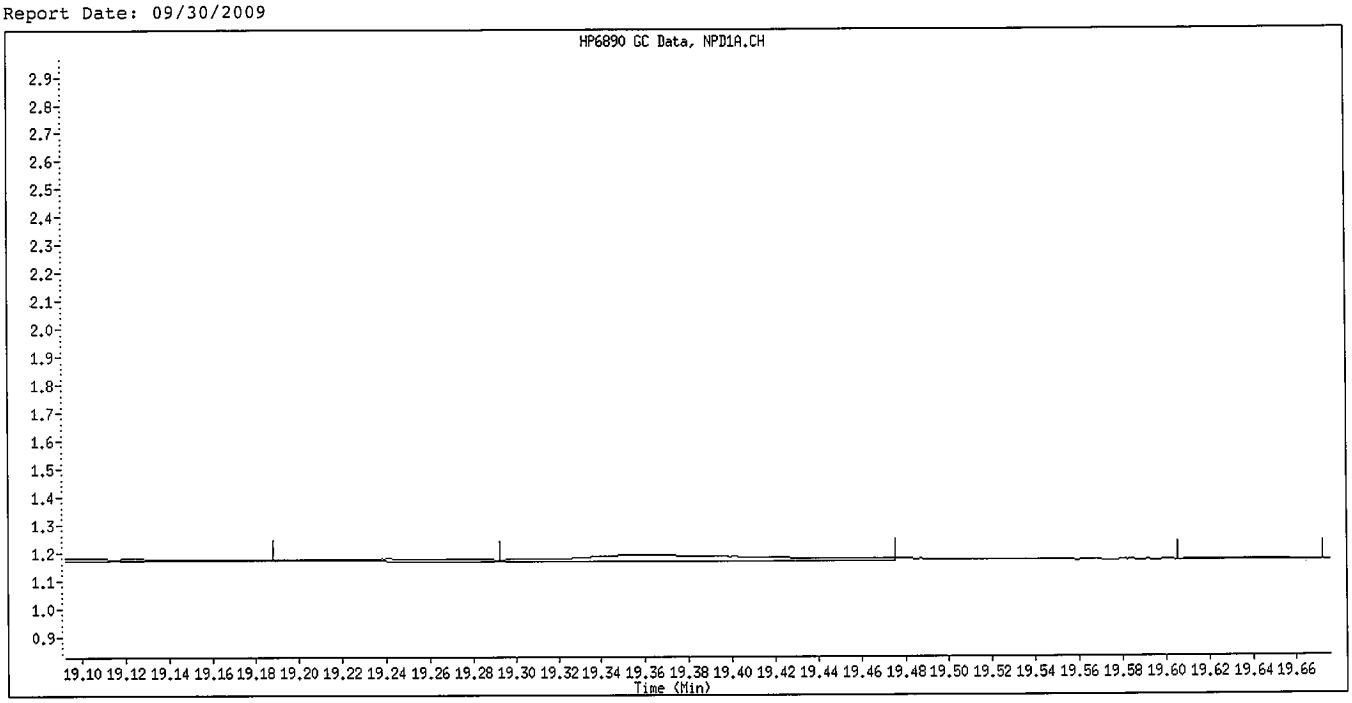
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



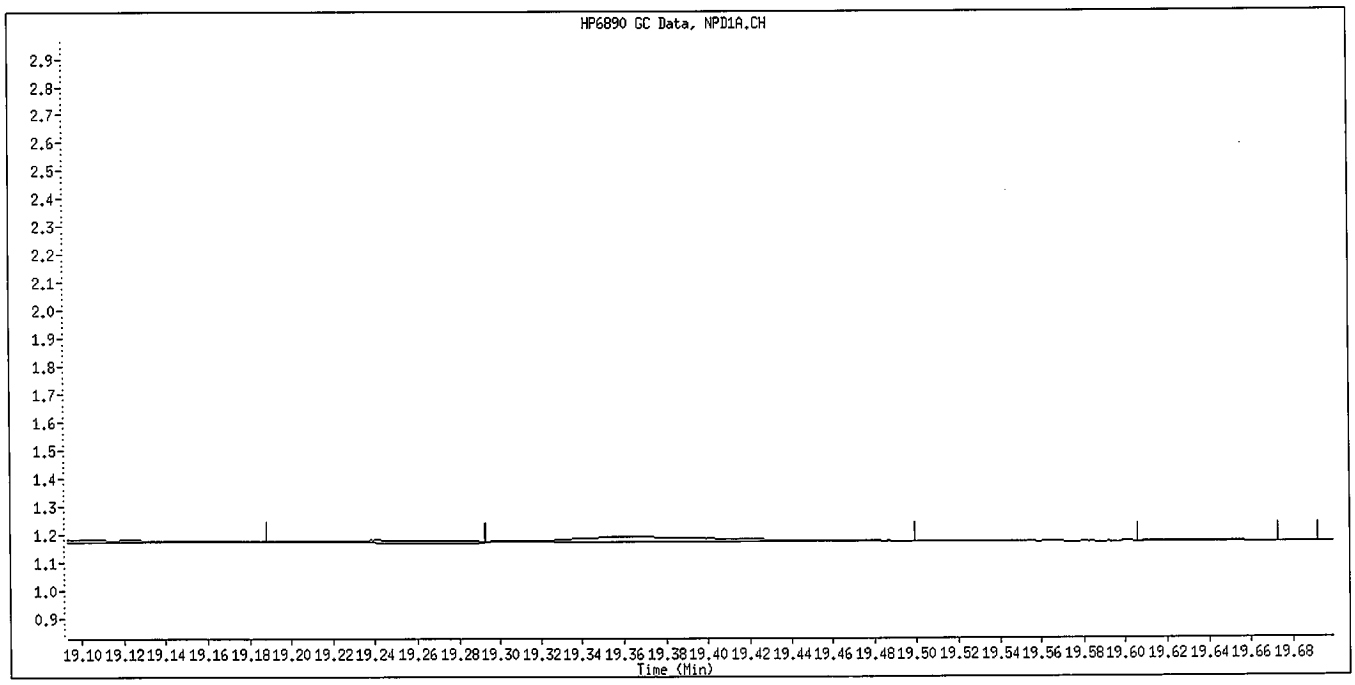
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\007F0701,D
Date : 29-SEP-2009 14:59
Client ID: 8141 L3 CSV1081
Sample Info: 8141 L3 CSV1081
Column phase: RTx-1MS

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration

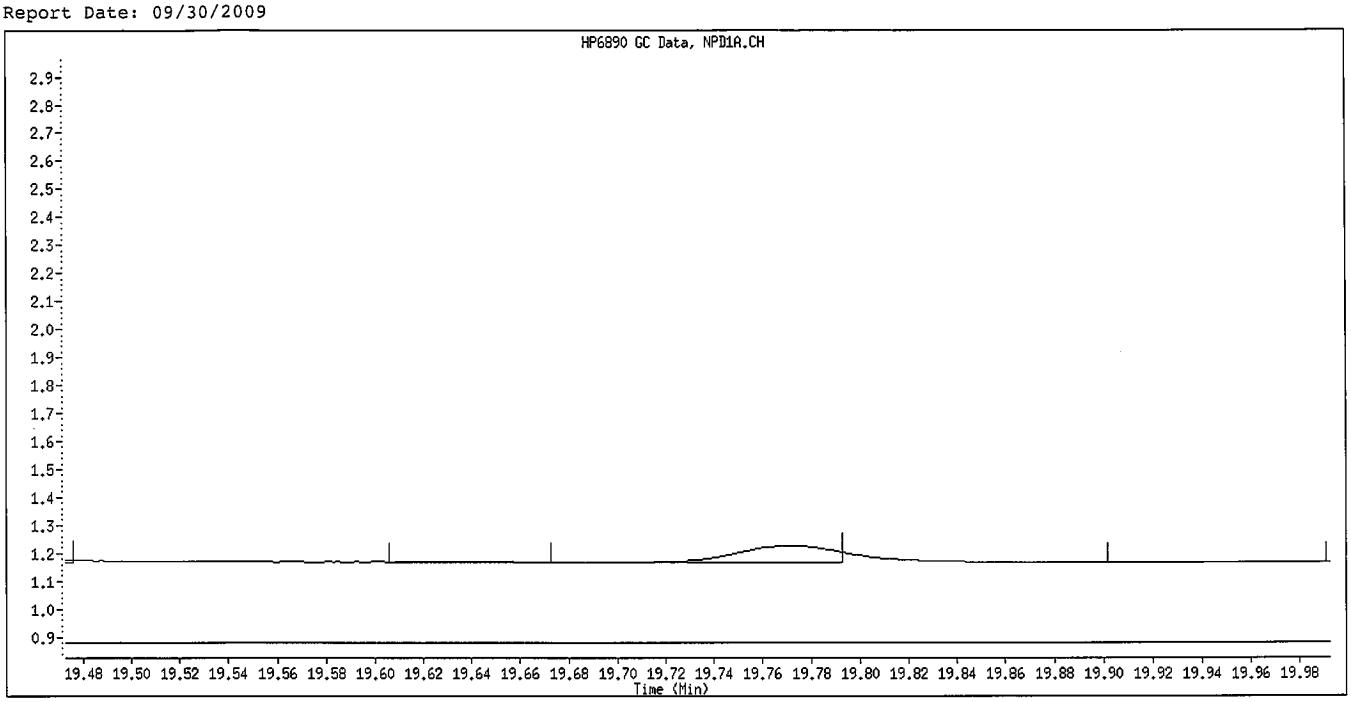


Manual Integration

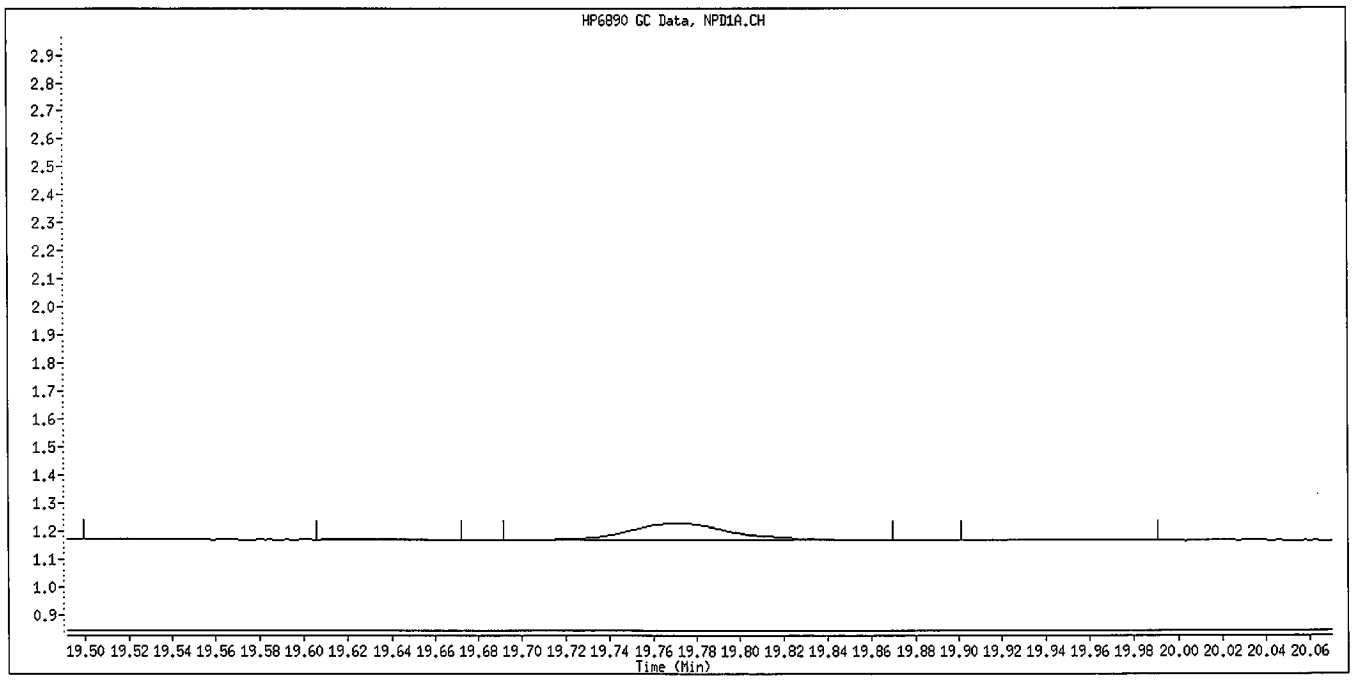
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Merphos-A (Merphos)
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Lab Smp Id: 8141 L2 GSV1082 Client Smp ID: 8141 L2 GSV1082
Inj Date : 29-SEP-2009 15:35
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L2 GSV1082
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:59 Cal File: 007F0701.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.264	4.260	(0.312)	182760	0.50000	0.4821
	2 Dichlorvos	5.829	5.821	(0.427)	125004	0.50000	0.4595
	3 Mevinphos	9.372	9.350	(0.686)	34212	0.50000	0.4192
$	4 Chlormefos	9.467	9.466	(0.693)	170562	0.50000	0.4841
	5 Thionazin	12.594	12.581	(0.922)	125634	0.50000	0.5309
	6 Demeton-O	12.844	12.837	(0.940)	43142	0.16250	0.1860
	7 Ethoprop	13.165	13.150	(0.964)	126916	0.50000	0.5041
	8 Naled	13.443	13.431	(0.984)	29826	0.50000	0.4562
*	9 Tributylphosphate	13.660	13.646	(1.000)	499492	2.00000	
	10 Sulfotepp	14.110	14.105	(1.033)	181698	0.50000	0.5063
	11 Phorate	14.199	14.191	(1.039)	152671	0.50000	0.5098
	12 Dimethoate	14.475	14.366	(1.060)	80163	0.50000	0.4916(M)
	13 Demeton-S	14.671	14.636	(1.074)	82067	0.34000	0.3205
	14 Simazine	14.803	14.756	(1.084)	46345	0.50000	0.5400
	15 Atrazine	15.005	14.971	(1.098)	52535	0.50000	0.4982
	16 propazine	15.172	15.152	(1.111)	57260	0.50000	0.5246
	17 Disulfoton	15.850	15.835	(0.586)	82596	0.50000	0.4716
	18 Diazinon	15.912	15.901	(0.588)	162836	0.50000	0.5465
	19 Methyl Parathion	16.835	16.802	(0.622)	93936	0.50000	0.5056
	20 Ronnel	17.440	17.422	(0.644)	92833	0.50000	0.4677
	21 Malathion	18.111	18.094	(0.669)	76759	0.50000	0.4626
	22 Fenthion	18.275	18.250	(0.675)	81008	0.50000	0.4556
	23 Parathion	18.399	18.360	(0.680)	64057	0.50000	0.4997(M)
	24 Chlorpyrifos	18.428	18.416	(0.681)	186478	0.50000	0.5898(M)
	25 Trichloronate	18.935	18.921	(0.700)	111835	0.50000	0.4691
	26 Anilazine	19.399	19.331	(0.717)	3022	0.50000	0.5085(M)
	27 Merphos-A (Merphos)	19.770	19.763	(0.731)	2369	0.50000	0.6825
	28 Tetrachlorvinphos (Stirophos)	20.513	20.483	(0.758)	56276	0.50000	0.4913
	29 Tokuthion	21.261	21.237	(0.786)	102445	0.50000	0.4616
	30 Merphos-B (Merphos Oxone)	21.510	21.486	(0.795)	107384	0.50000	0.5822
	31 Carbophenothion-methyl	22.260	22.219	(0.823)	68129	0.50000	0.4573
	32 Fensulfothion	22.487	22.401	(0.831)	74021	0.50000	0.4661
	33 Bolstar / Famphur	23.610	23.575	(0.872)	173165	1.00000	0.9462

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.938	23.899	(0.885)	94798	0.50000	0.4841
$	35 Triphenyl phosphate	25.259	25.226	(0.933)	71967	0.50000	0.4737
	36 Phosmet	25.794	25.748	(0.953)	62864	0.50000	0.4567
	37 EPN	26.094	26.075	(0.964)	94375	0.50000	0.4898
	38 Azinphos-methyl	26.605	26.574	(0.983)	58851	0.50000	0.4302
*	39 TOCP	27.062	27.058	(1.000)	356765	2.00000	
	40 Azinphos-ethyl	27.181	27.159	(1.004)	90611	0.50000	0.4978
	41 Coumaphos	27.708	27.686	(1.024)	63688	0.50000	0.4513
M	42 Total Demeton				125209	0.50000	0.5066
M	43 Merphos				109753	0.50000	0.4825

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

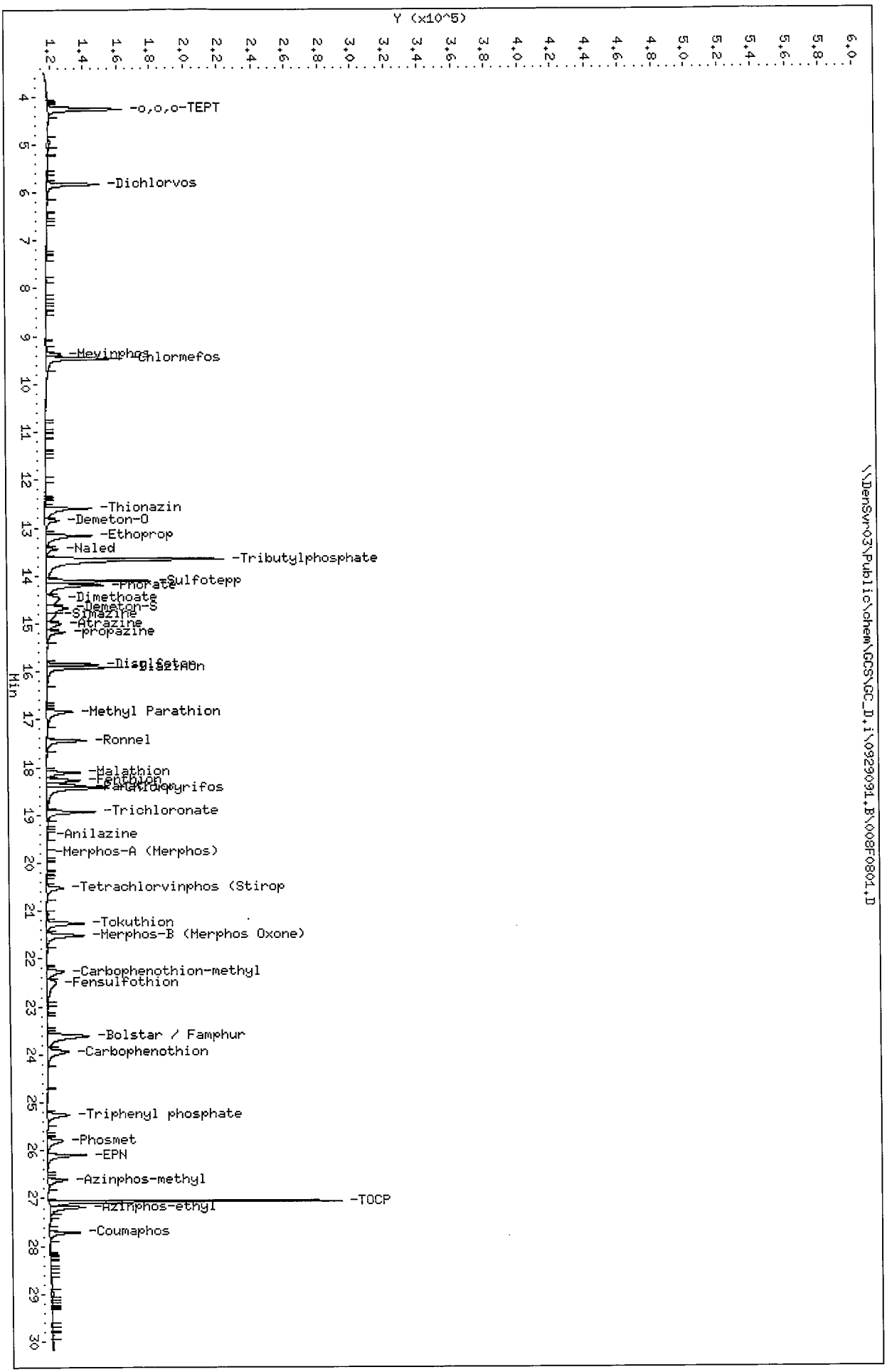
Instrument ID: GC_D.i
Lab File ID: 008F0801.D
Lab Smp Id: 8141 L2 GSV1082
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L2 GSV1082
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	499492	-32.86
39 TOCP	484260	242130	968520	356765	-26.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.16
39 TOCP	27.06	26.56	27.56	27.06	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.

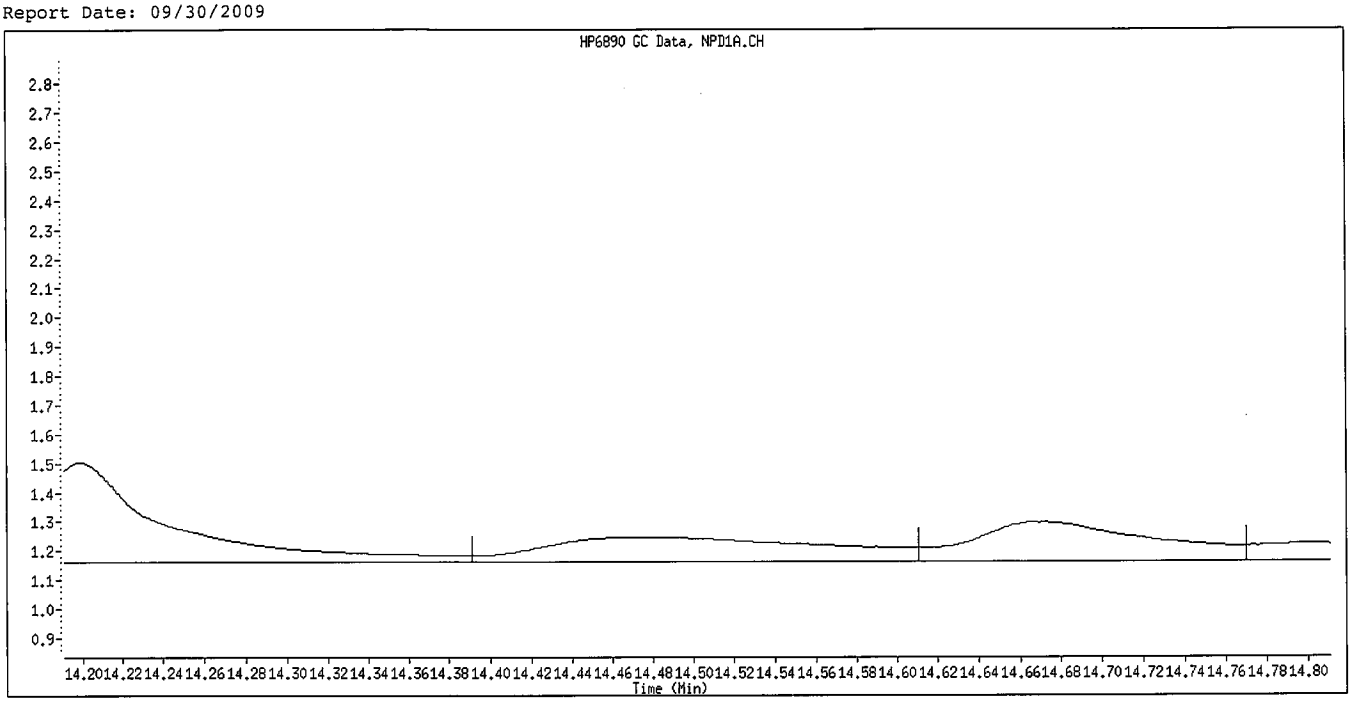


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\008F0801.D
Date : 29-SEP-2009 15:35
Client ID: 8141 L2 GSV1082
Sample Info: 8141 L2 GSV1082
Column phase: RTx-1MS

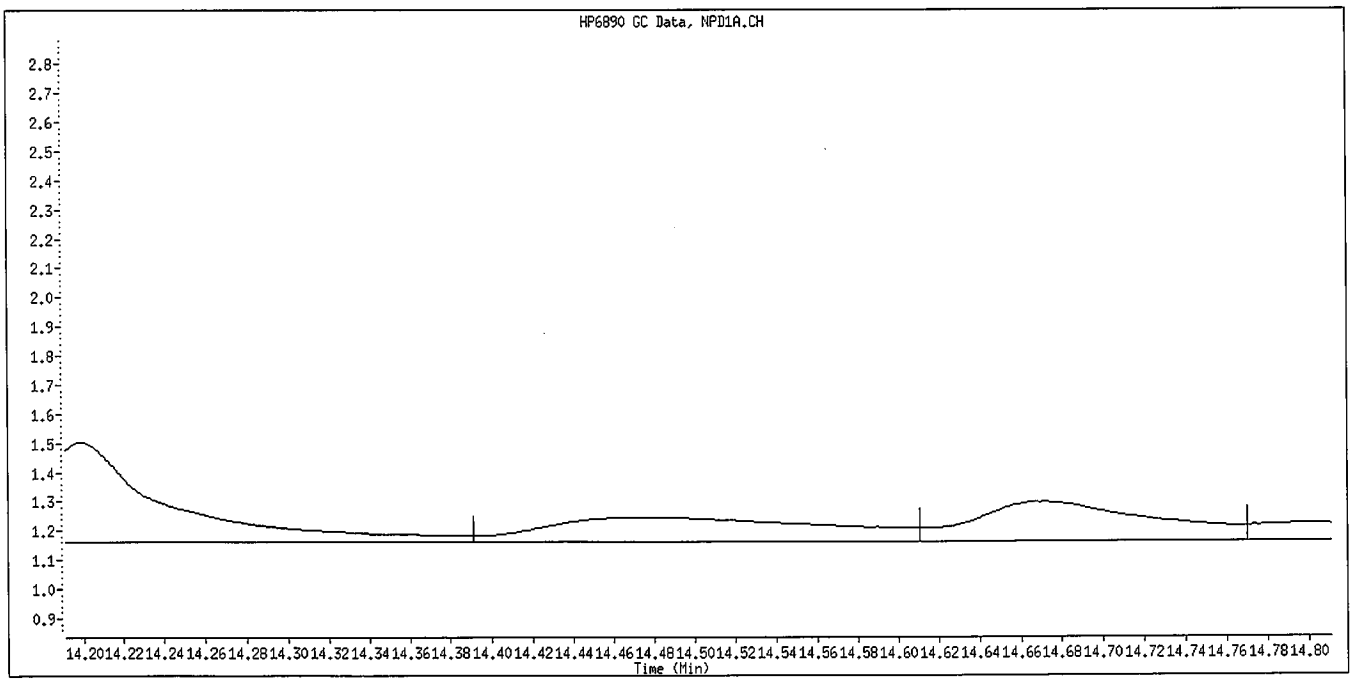
\\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\008F0801.D

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Dimethoate
CAS #:
Report Date: 09/30/2009



Original Integration

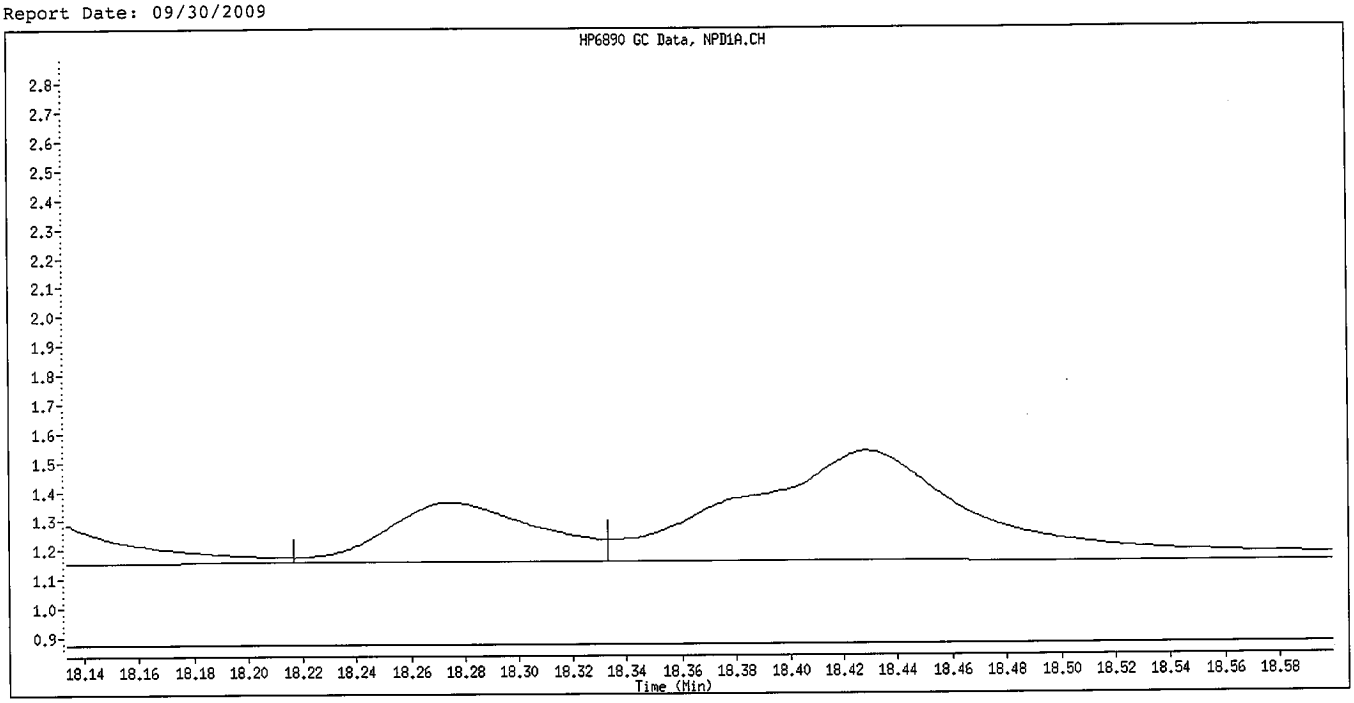


Manual Integration

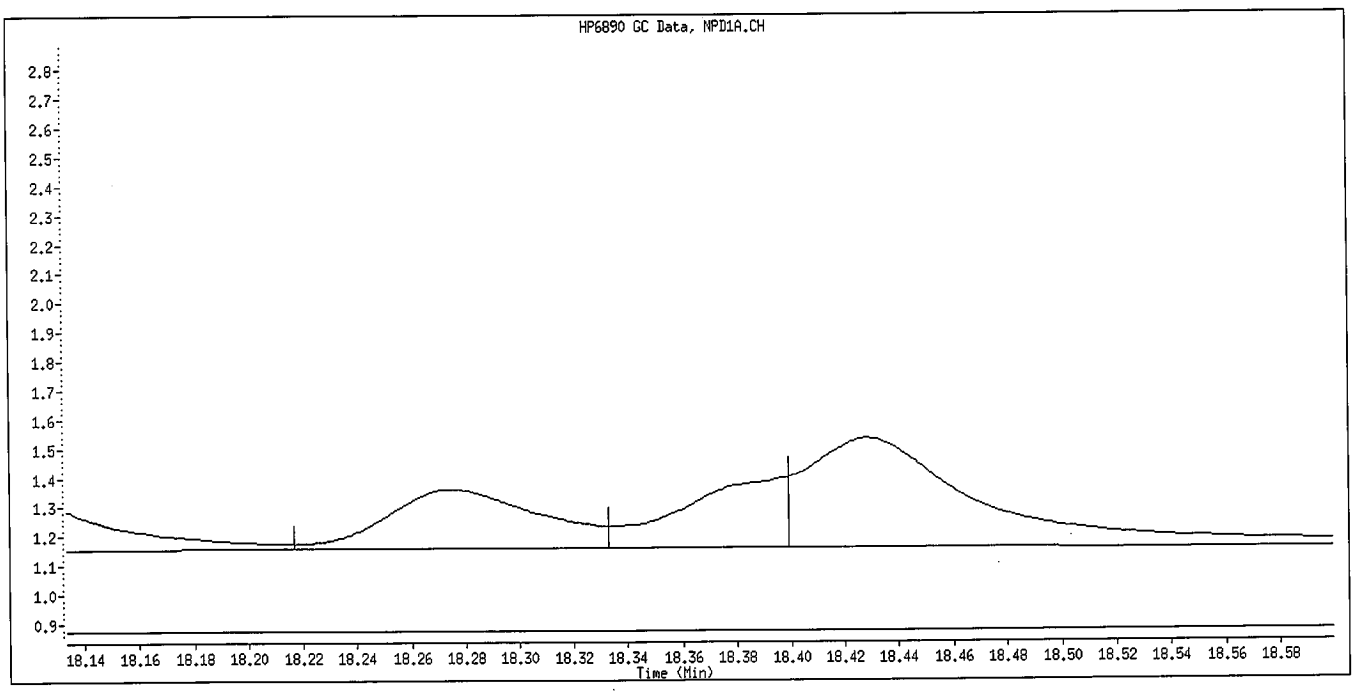
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Parathion
CAS #:
Report Date: 09/30/2009



Original Integration

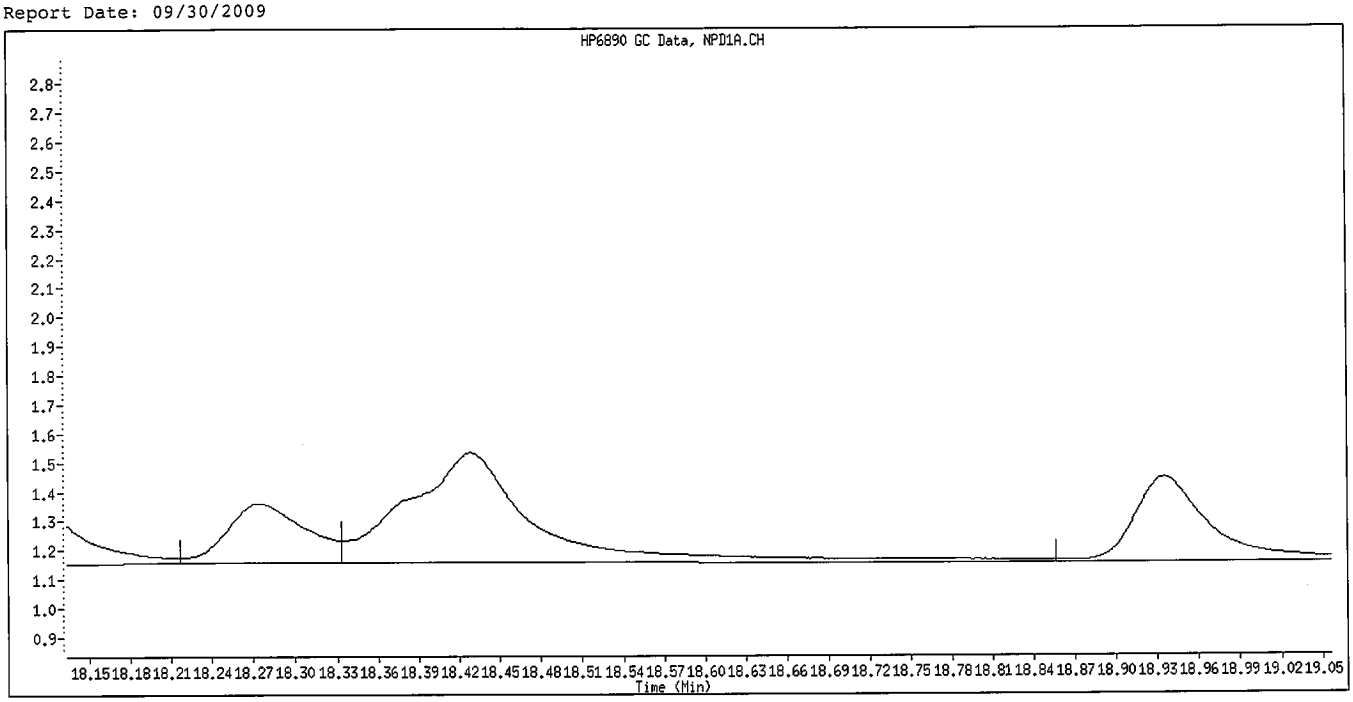


Manual Integration

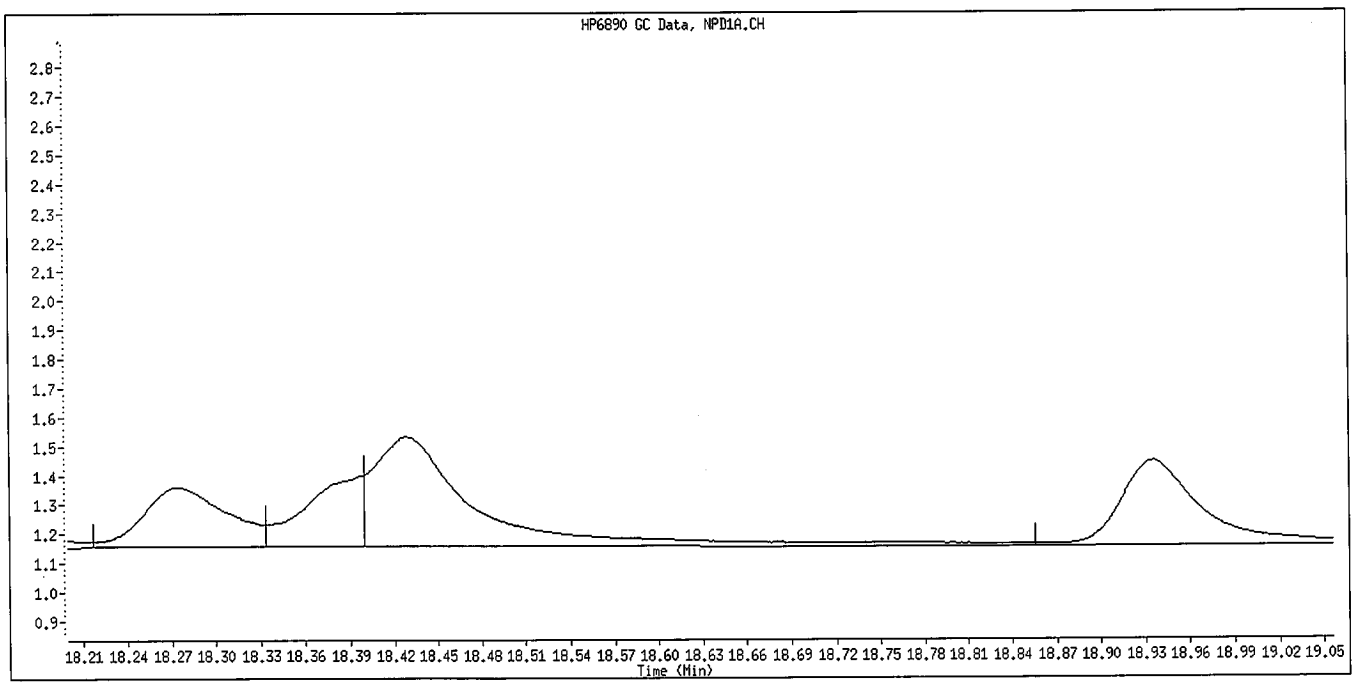
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Chlorpyrifos
CAS #:
Report Date: 09/30/2009



Original Integration

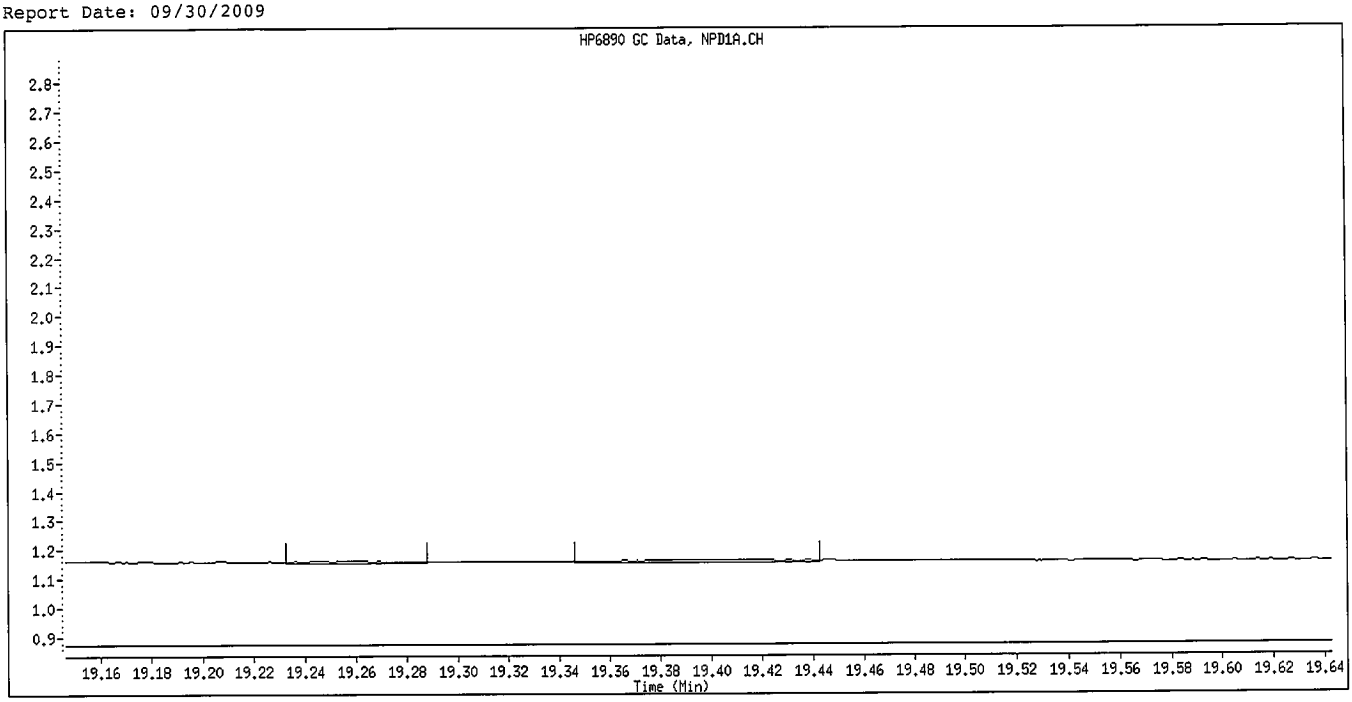


Manual Integration

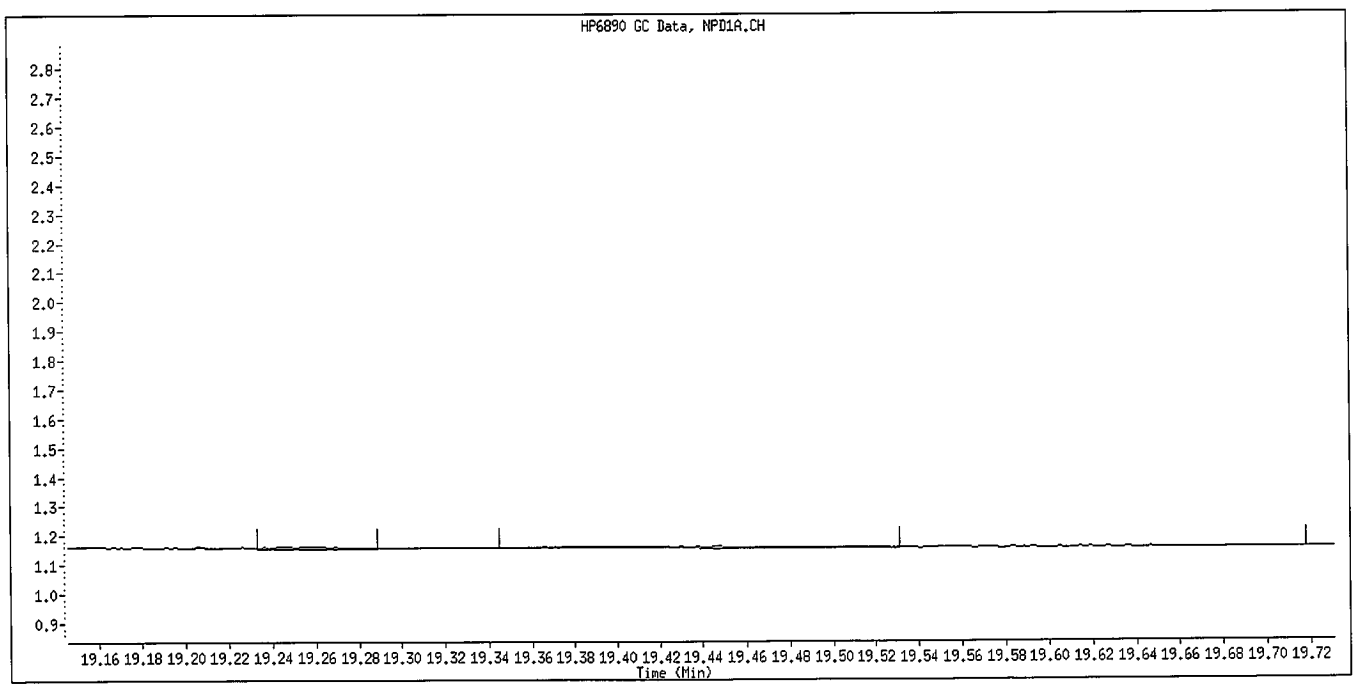
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Unknown

Baseline
YL 9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Lab Smp Id: 8141 L1 GSV1083 Client Smp ID: 8141 L1 GSV1083
Inj Date : 29-SEP-2009 16:12
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L1 GSV1083
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 15:35 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.264	4.260	(0.312)	73387	0.20000	0.2156
	2 Dichlorvos	5.829	5.821	(0.427)	49261	0.20000	0.2016
	3 Mevinphos	9.385	9.350	(0.687)	5844	0.20000	0.2135
$	4 Chlormefos	9.466	9.466	(0.693)	61214	0.20000	0.1934
	5 Thionazin	12.599	12.581	(0.922)	26137	0.20000	0.1921
	6 Demeton-O	12.851	12.837	(0.940)	8888	0.06500	0.04758
	7 Ethoprop	13.174	13.150	(0.964)	39547	0.20000	0.1960
	8 Naled	13.454	13.431	(0.985)	5310	0.20000	0.2071
*	9 Tributylphosphate	13.665	13.646	(1.000)	448625	2.00000	
	10 Sulfotepp	14.113	14.105	(1.033)	69030	0.20000	0.2142
	11 Phorate	14.201	14.191	(1.039)	65747	0.20000	0.1666
	12 Dimethoate	Compound Not Detected.					
	13 Demeton-S	14.700	14.636	(1.076)	38231	0.13600	0.1375
	14 Simazine	Compound Not Detected.					
	15 Atrazine	15.039	14.971	(1.100)	18424	0.20000	0.1945
	16 propazine	15.193	15.152	(1.112)	21269	0.20000	0.2170
	17 Disulfoton	15.859	15.835	(0.586)	20950	0.20000	0.2021
	18 Diazinon	15.921	15.901	(0.588)	64704	0.20000	0.2256
	19 Methyl Parathion	16.876	16.802	(0.624)	25143	0.20000	0.1987(M)
	20 Ronnel	17.459	17.422	(0.645)	30043	0.20000	0.2055
	21 Malathion	18.127	18.094	(0.670)	25410	0.20000	0.1590
	22 Fenthion	18.299	18.250	(0.676)	25618	0.20000	0.2056
	23 Parathion	Compound Not Detected.					
	24 Chlorpyrifos	18.445	18.416	(0.682)	85896	0.20000	0.2822
	25 Trichloronate	18.951	18.921	(0.700)	39953	0.20000	0.2192(M)
	26 Anilazine	Compound Not Detected.					
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.538	20.483	(0.759)	17165	0.20000	0.2534(M)
	29 Tokuthion	21.275	21.237	(0.786)	38426	0.20000	0.2055
	30 Merphos-B (Merphos Oxone)	21.526	21.486	(0.795)	40761	0.20000	0.2296
	31 Carbophenothion-methyl	22.301	22.219	(0.824)	21792	0.20000	0.2068(M)
	32 Fensulfothion	22.560	22.401	(0.834)	20933	0.20000	0.2054(M)
	33 Bolstar / Famphur	23.637	23.575	(0.873)	61134	0.40000	0.4044(M)

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.968	23.899	(0.886)	35249	0.20000	0.2005(M)
$	35 Triphenyl phosphate	25.275	25.226	(0.934)	25377	0.20000	0.2028
	36 Phosmet	25.826	25.748	(0.954)	21966	0.20000	0.2059(M)
	37 EPN	26.108	26.075	(0.965)	34992	0.20000	0.2004
	38 Azinphos-methyl	26.621	26.574	(0.984)	21324	0.20000	0.2100
*	39 TOCP	27.064	27.058	(1.000)	343472	2.00000	
	40 Azinphos-ethyl	27.196	27.159	(1.005)	37958	0.20000	0.2166
	41 Coumaphos	27.718	27.686	(1.024)	22677	0.20000	0.2071
M	42 Total Demeton				47119	0.20000	0.1851
M	43 Merphos				40761	0.20000	0.2015

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

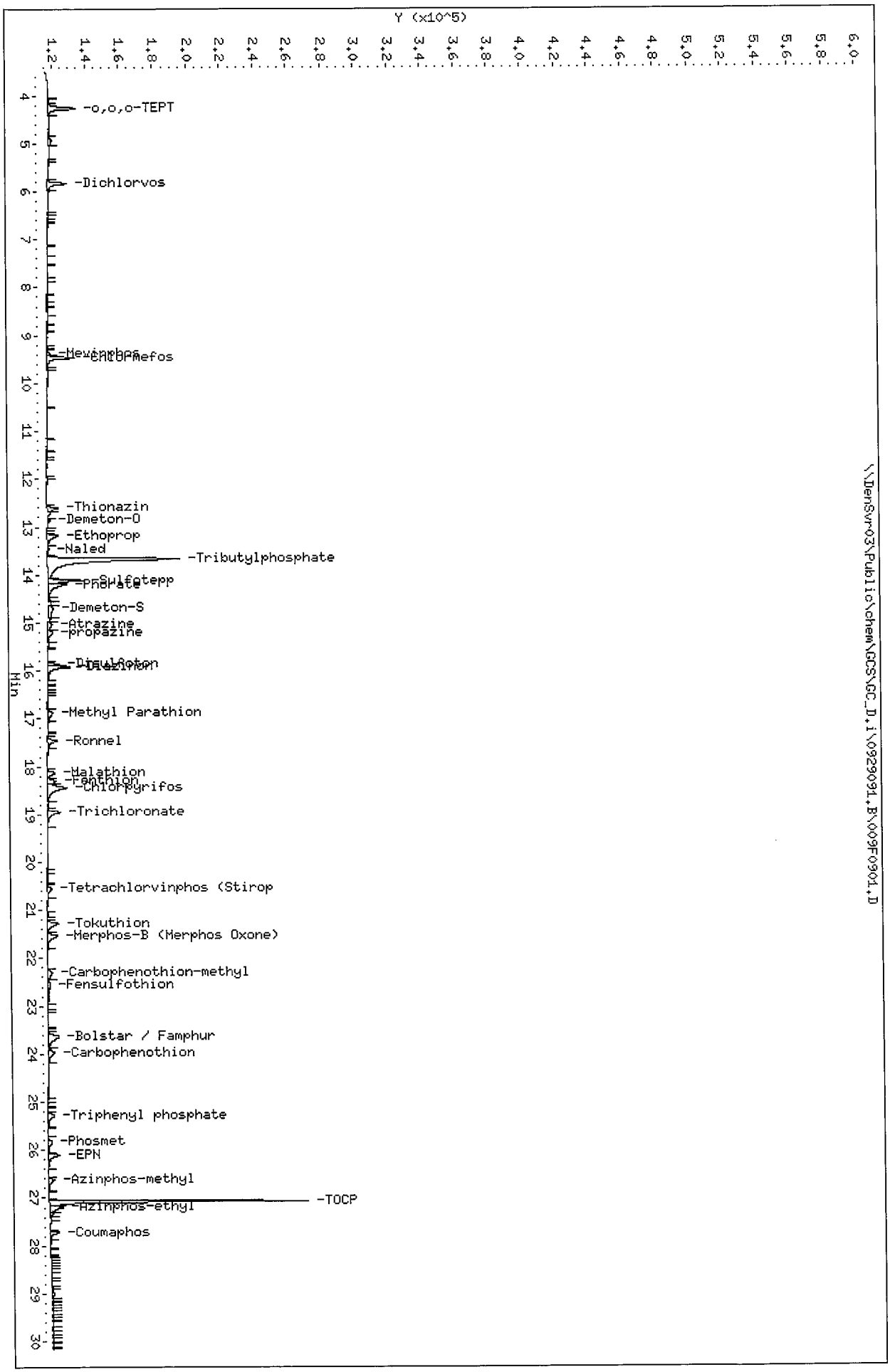
Instrument ID: GC_D.i
Lab File ID: 009F0901.D
Lab Smp Id: 8141 L1 GSV1083
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L1 GSV1083
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	448625	-39.70
39 TOCP	484260	242130	968520	343472	-29.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.67	0.20
39 TOCP	27.06	26.56	27.56	27.06	0.03

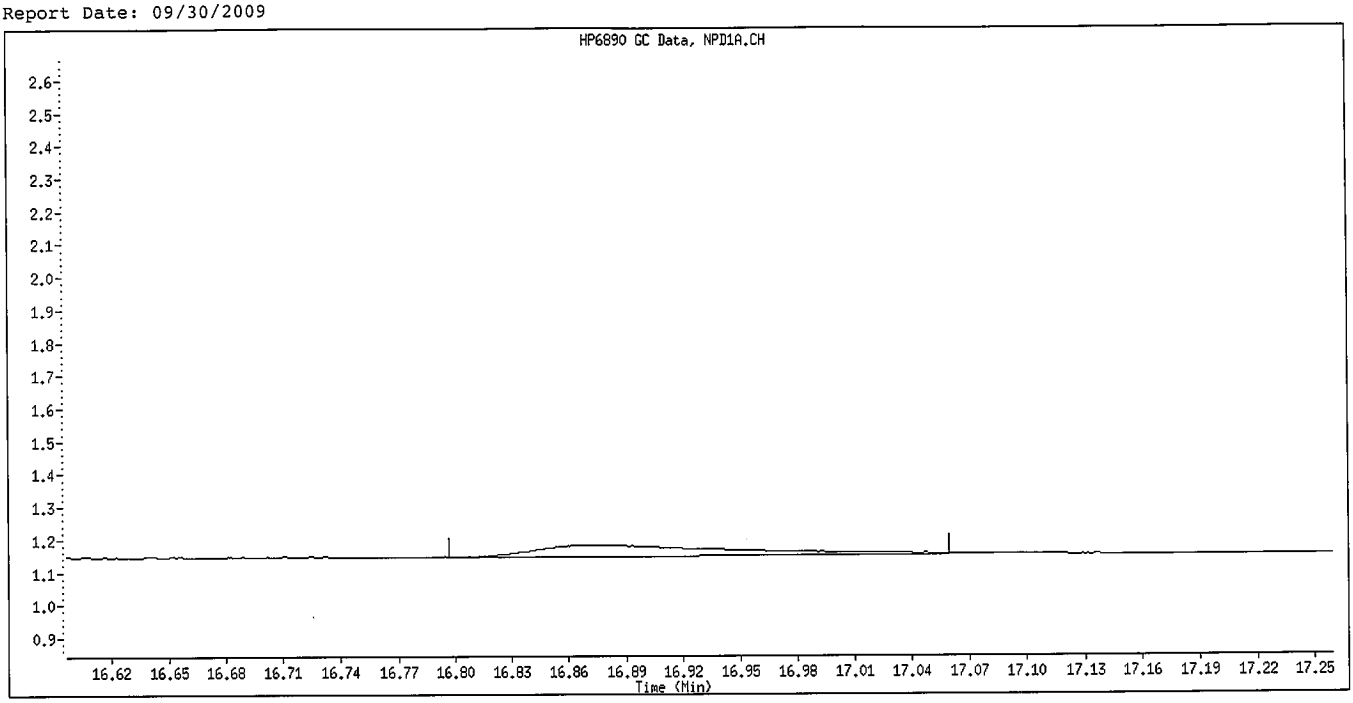
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



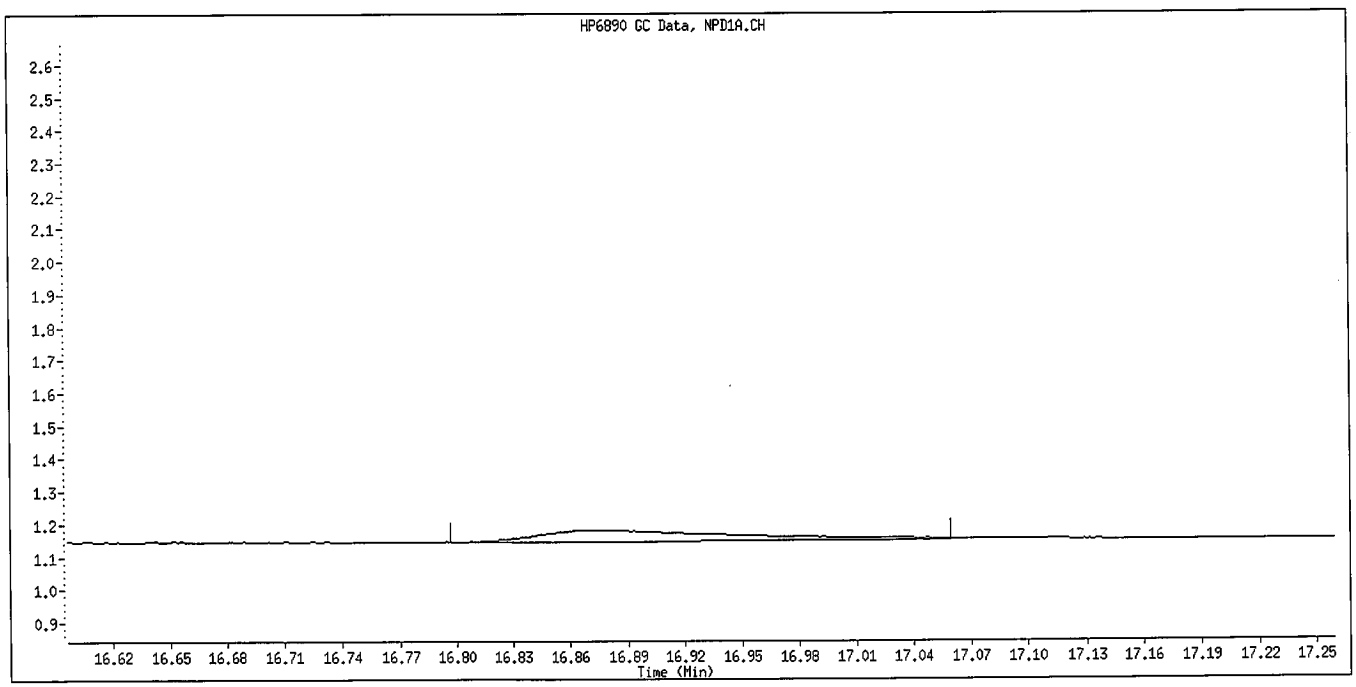
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\009F0901,D
Date : 29-SEP-2009 16:12
Client ID: 8141 L1 GSV1083
Sample Info: 8141 L1 GSV1083
Column phase: RTx-1MS

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Methyl Parathion
CAS #: 298-00-0
Report Date: 09/30/2009



Original Integration

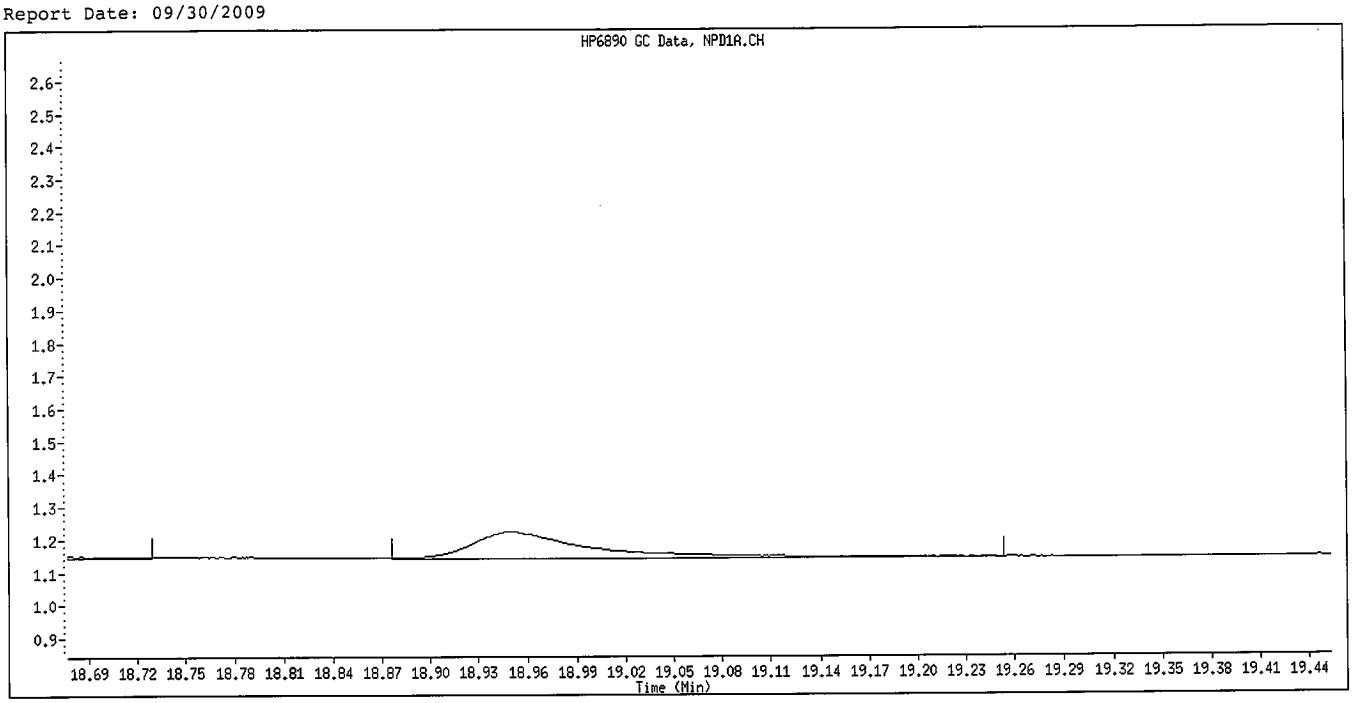


Manual Integration

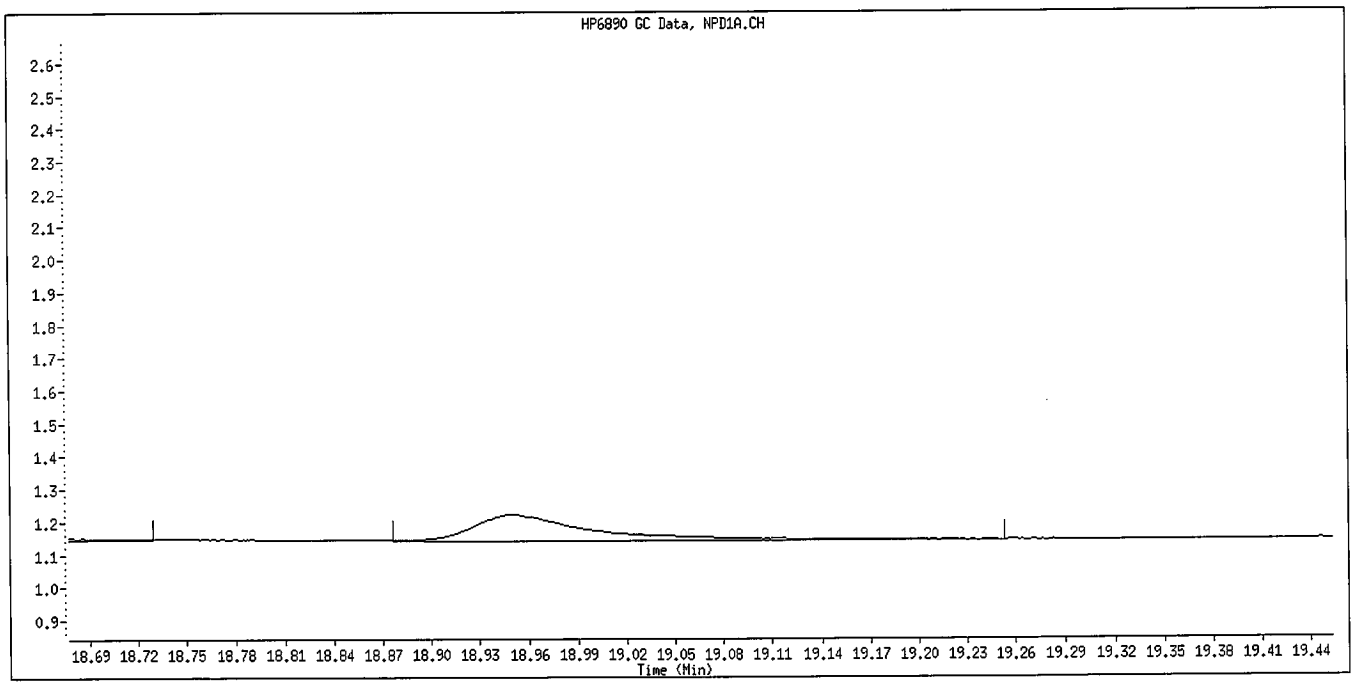
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Trichloronate
CAS #:
Report Date: 09/30/2009



Original Integration

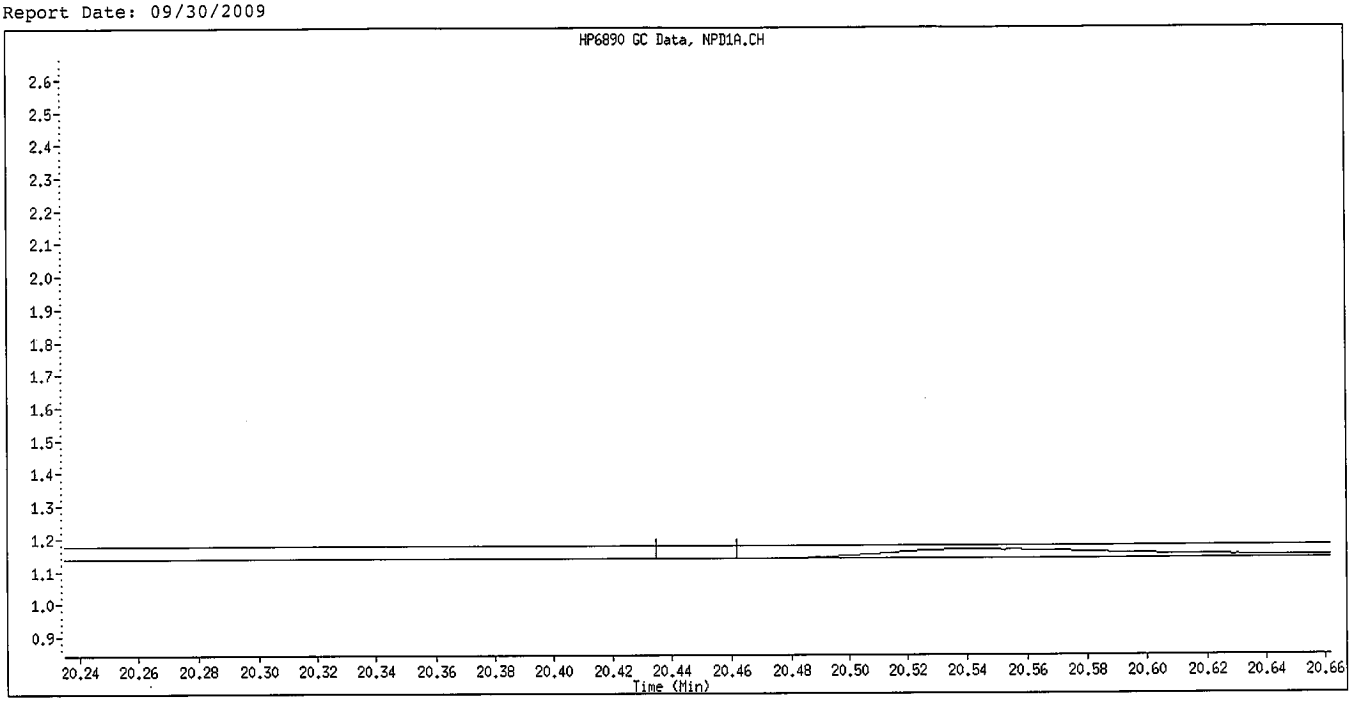


Manual Integration

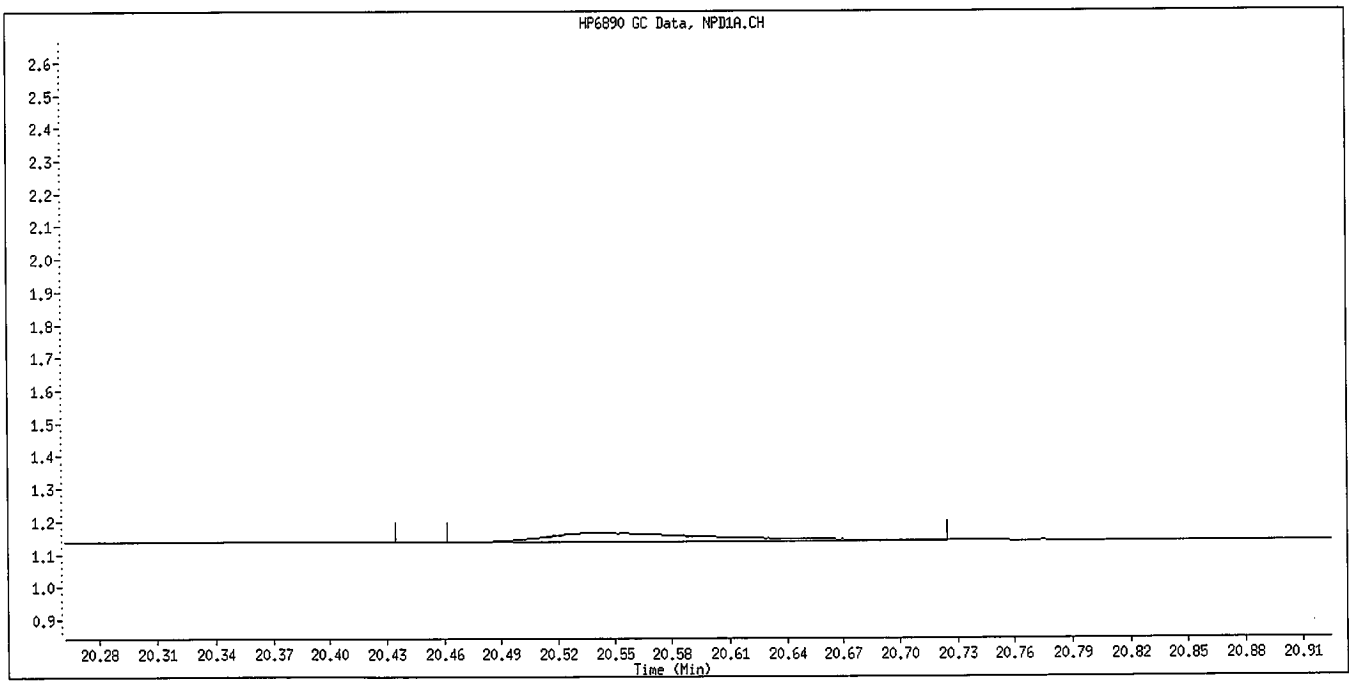
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

JL 9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Tetrachlorvinphos (Stirophos)
CAS #:
Report Date: 09/30/2009



Original Integration

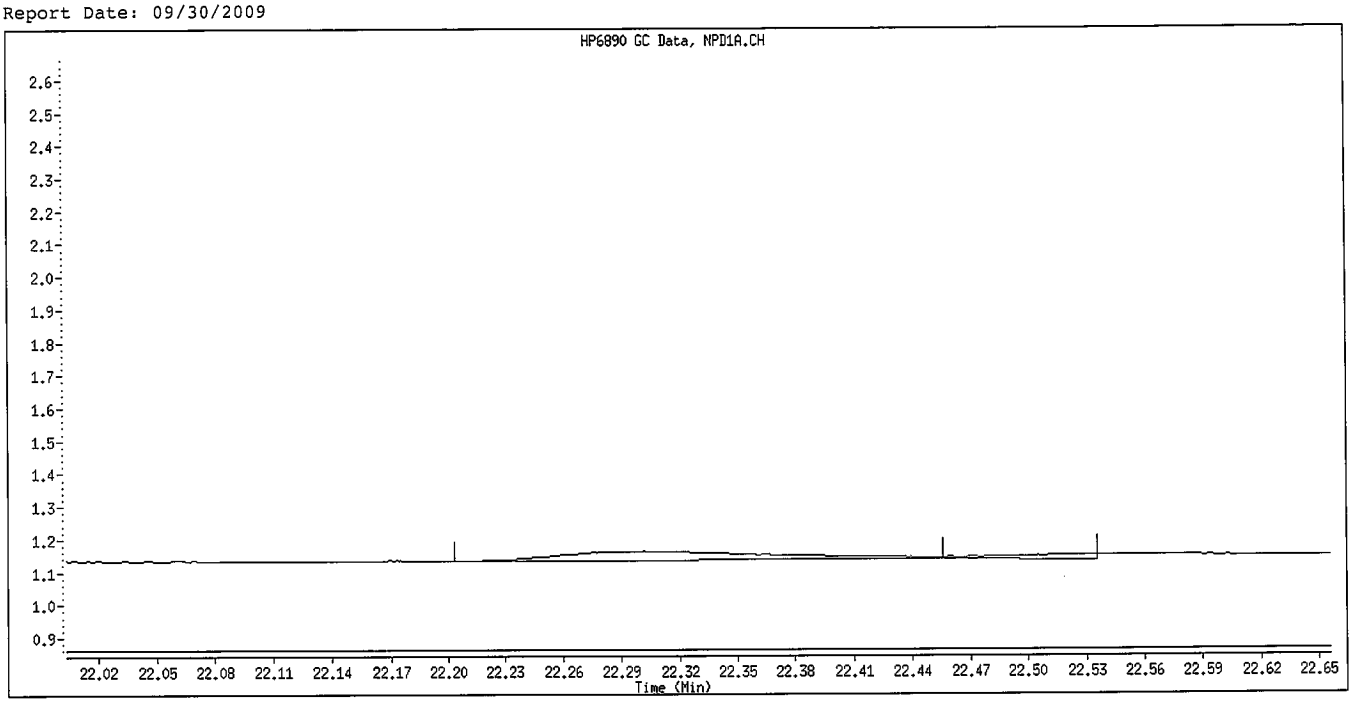


Manual Integration

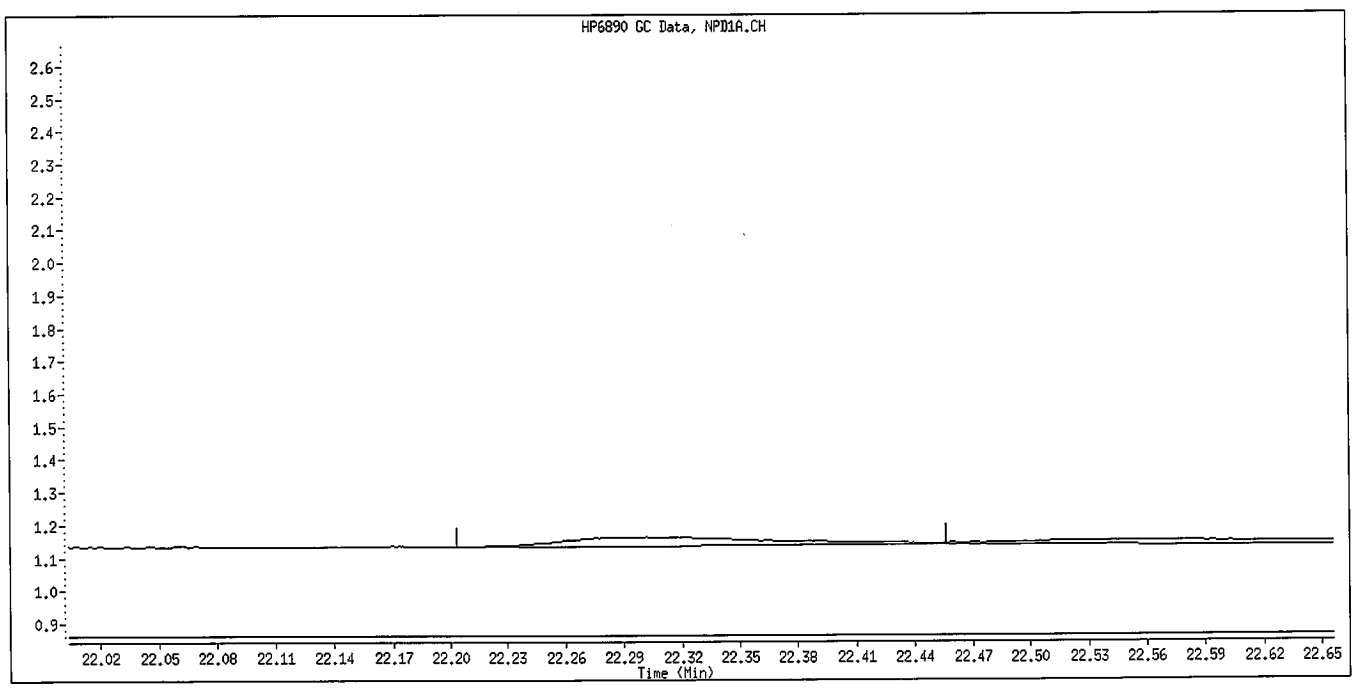
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Carbophenothion-methyl
CAS #:
Report Date: 09/30/2009



Original Integration

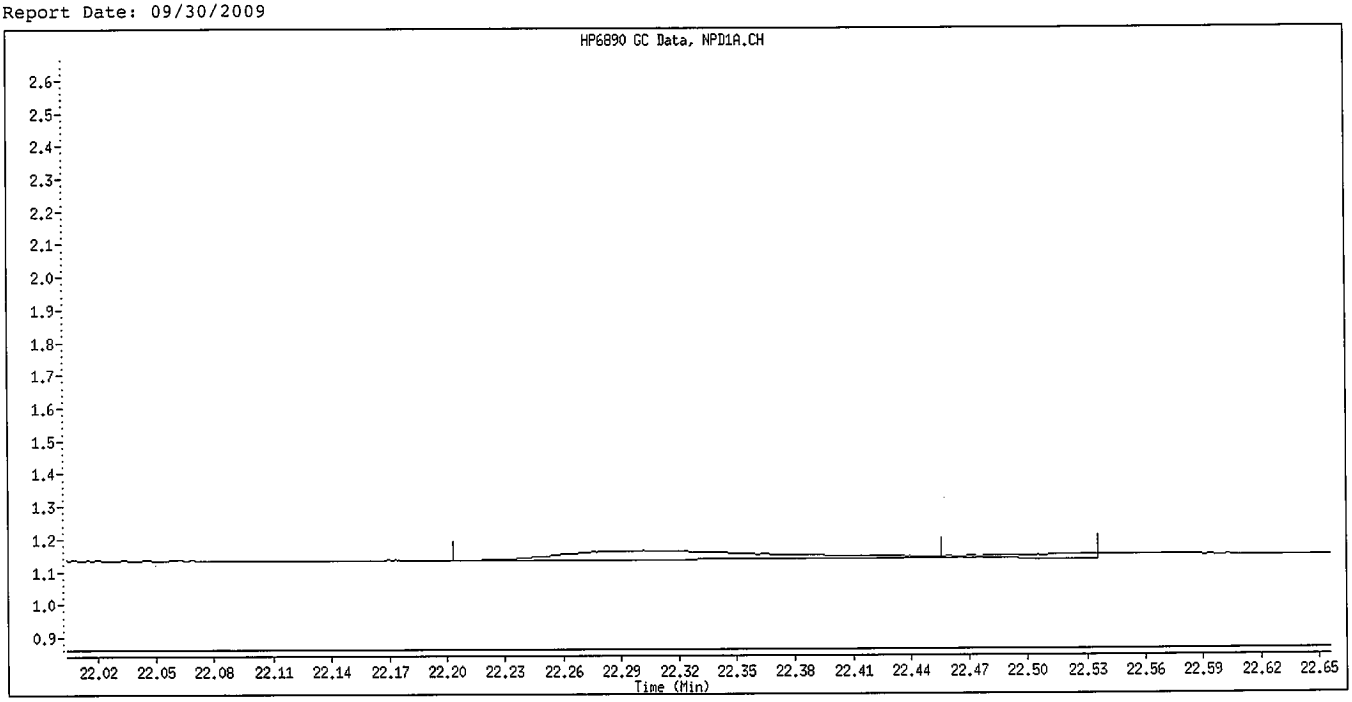


Manual Integration

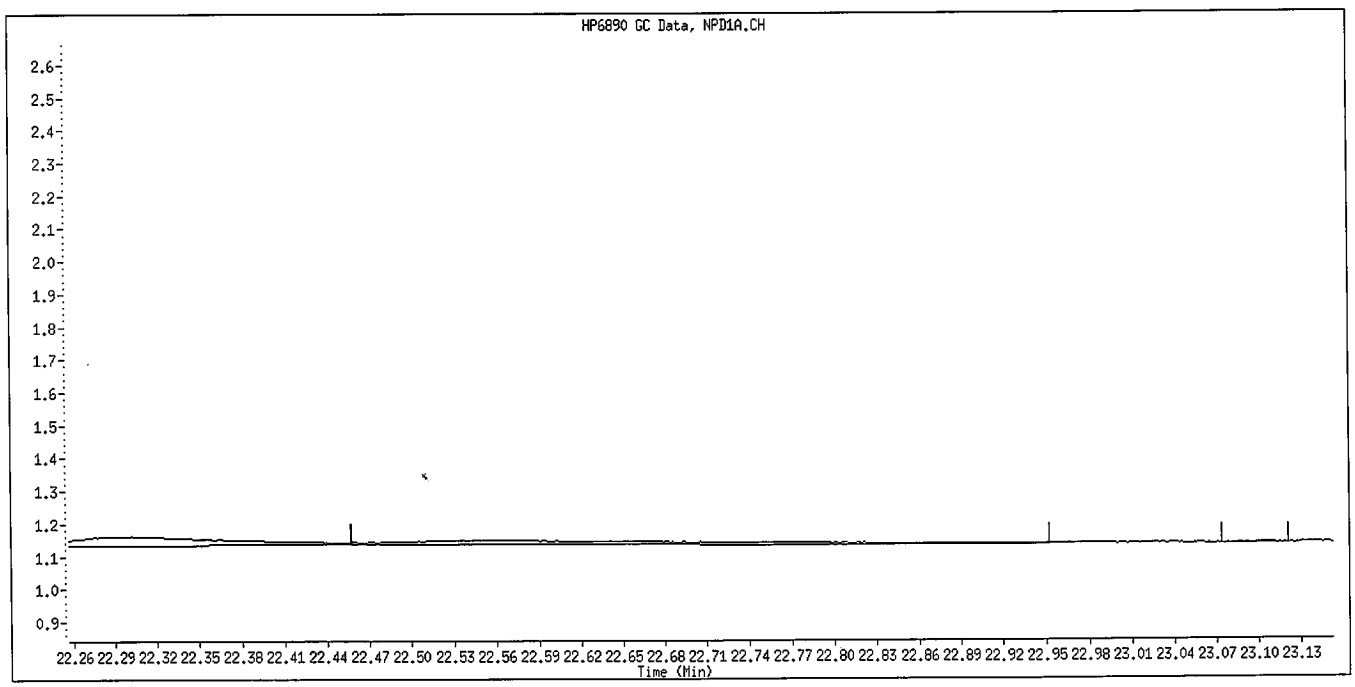
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Fensulfothion
CAS #:
Report Date: 09/30/2009



Original Integration

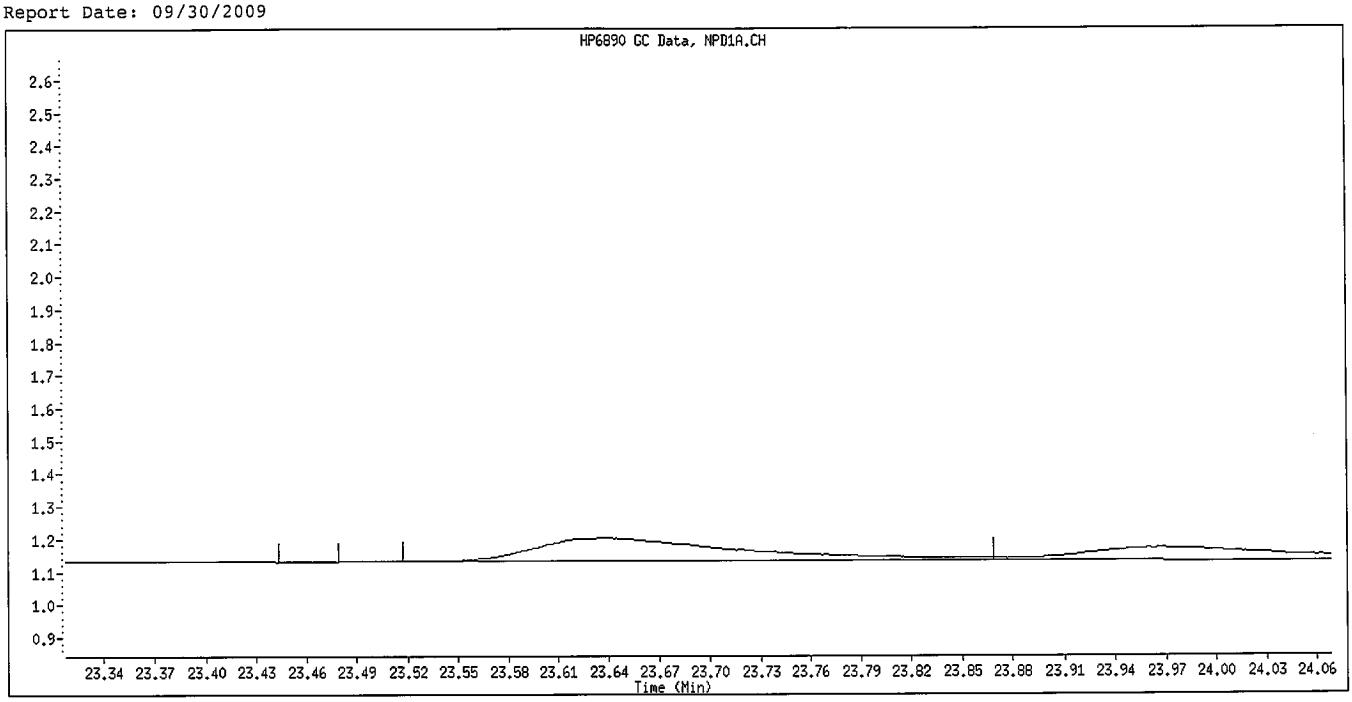


Manual Integration

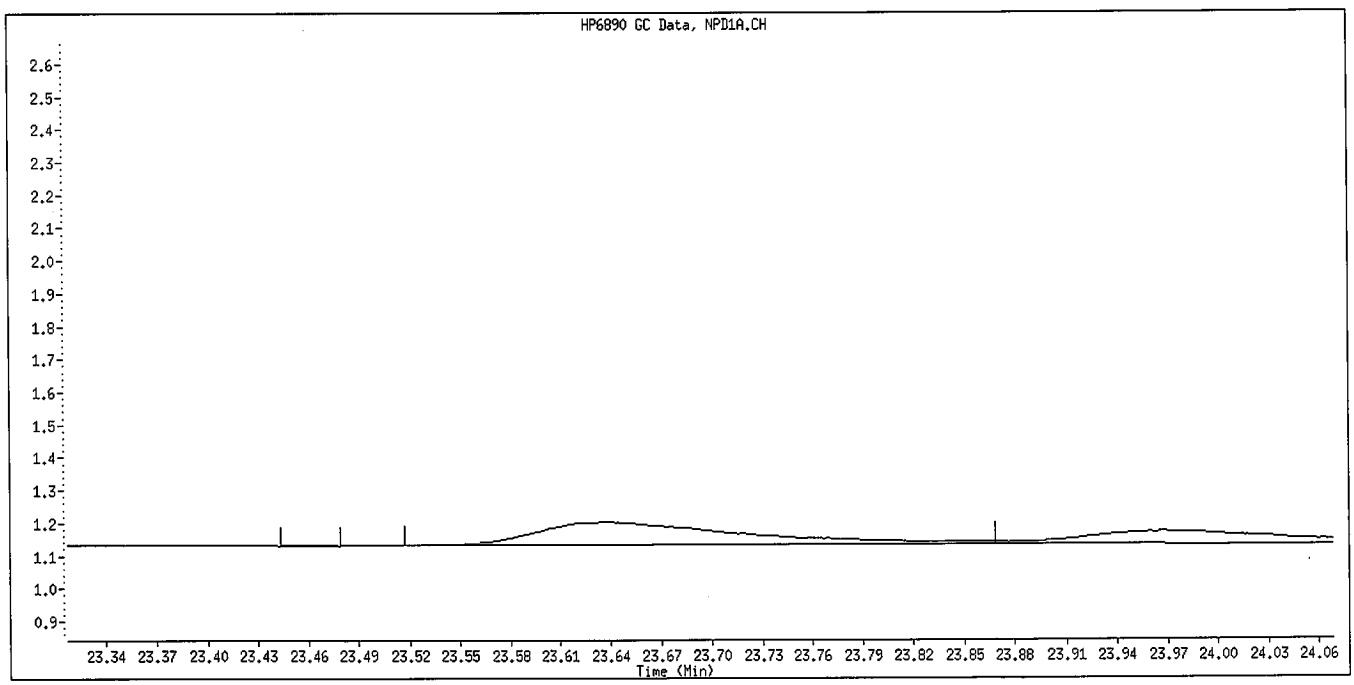
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Bolstar / Famphur
CAS #:
Report Date: 09/30/2009



Original Integration

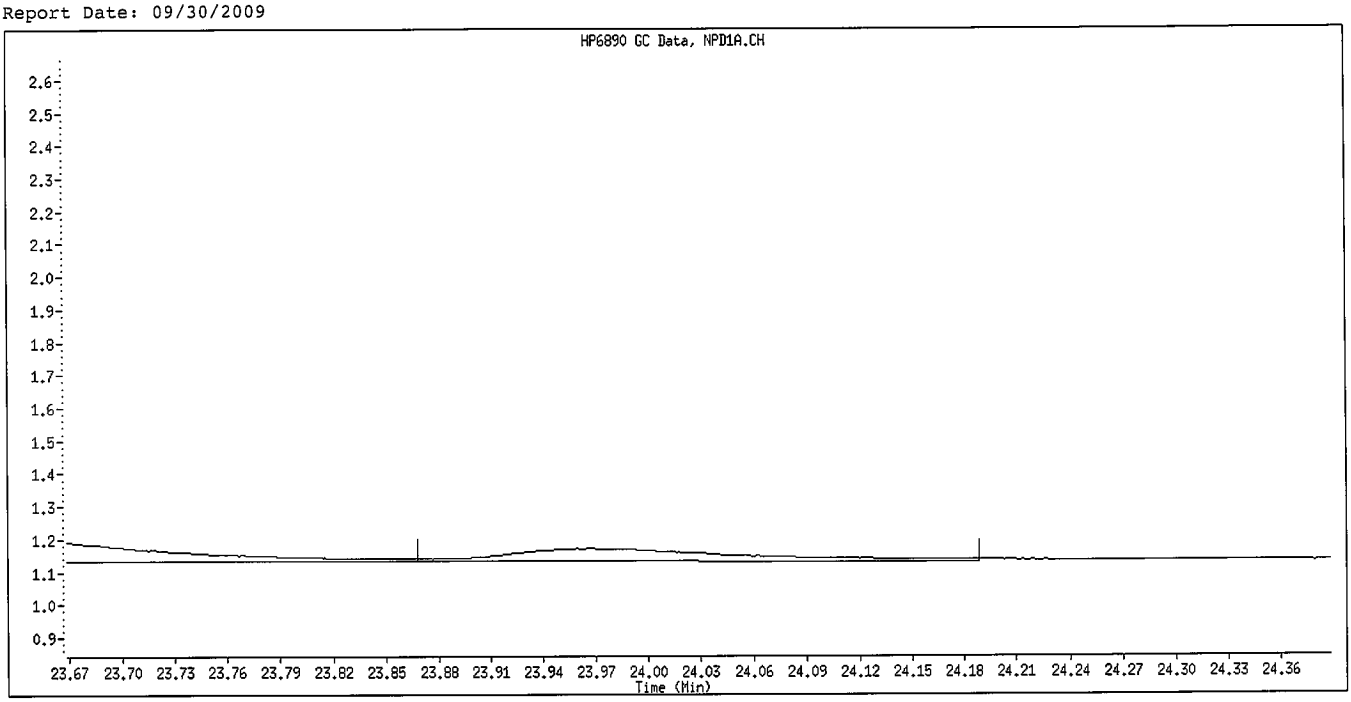


Manual Integration

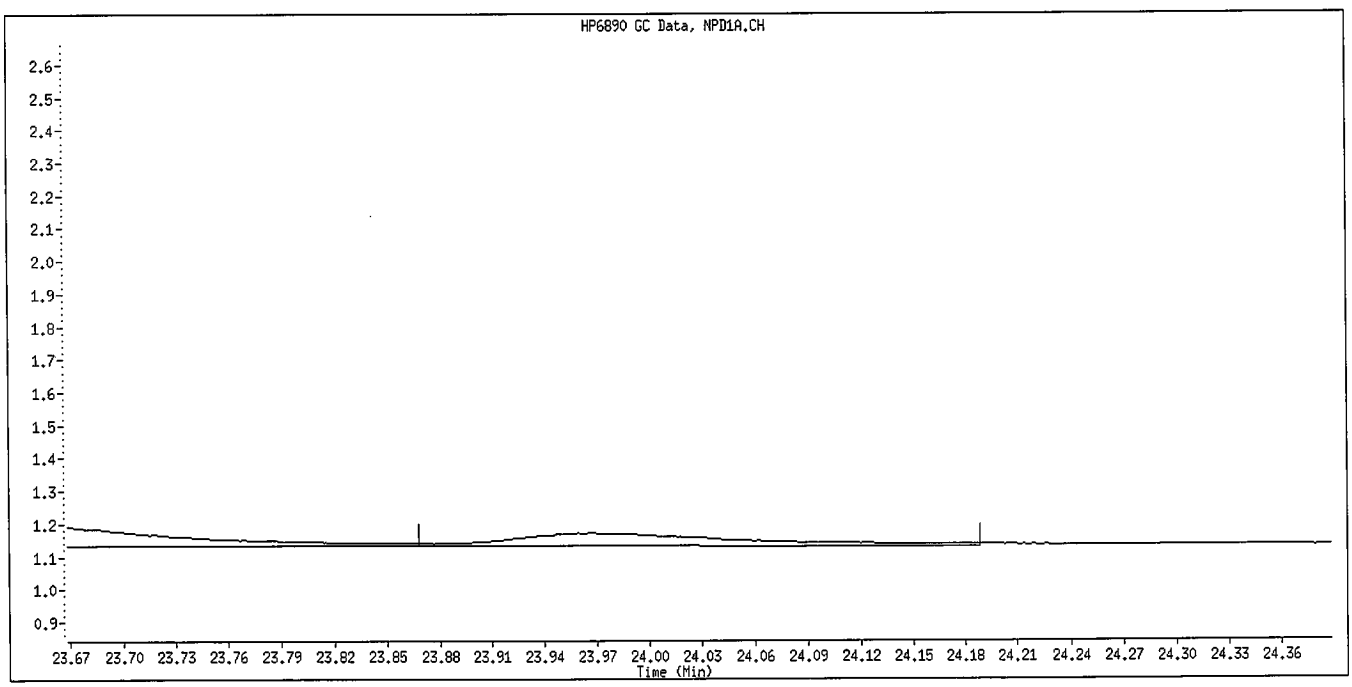
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

YL 9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Carbophenothion
CAS #:
Report Date: 09/30/2009



Original Integration

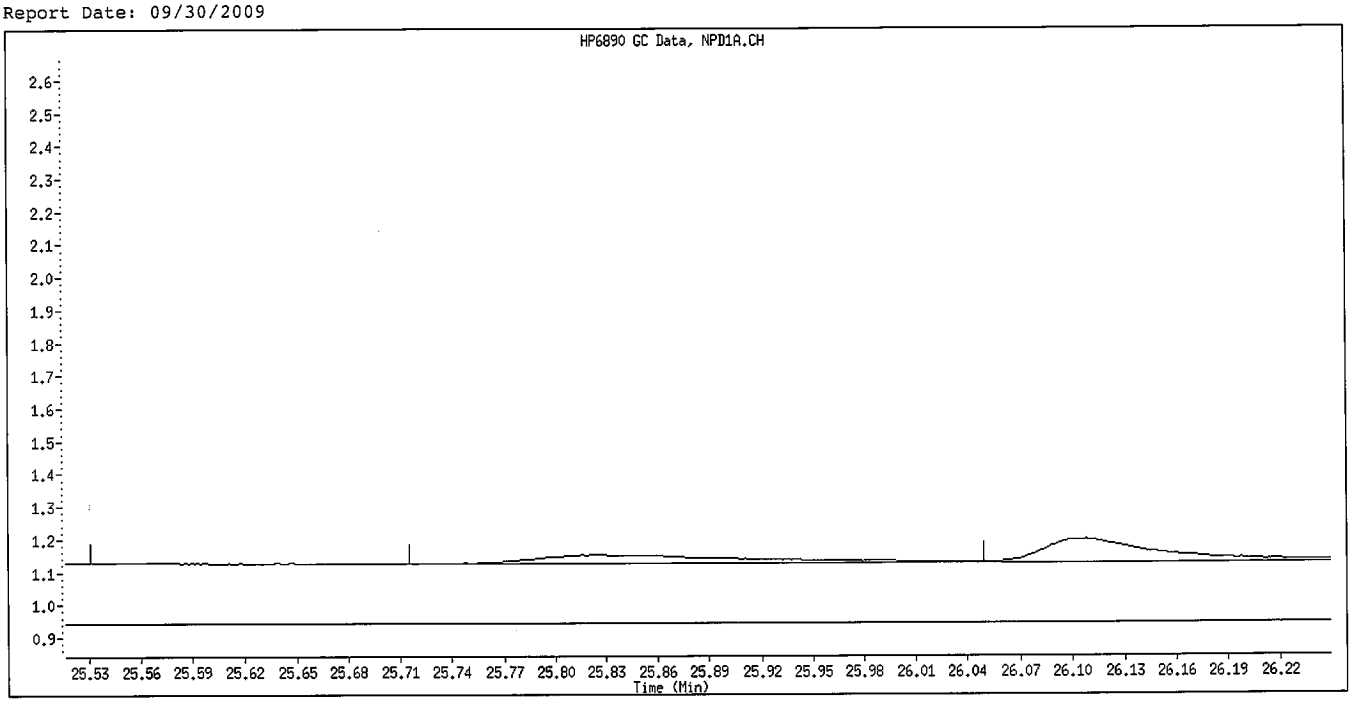


Manual Integration

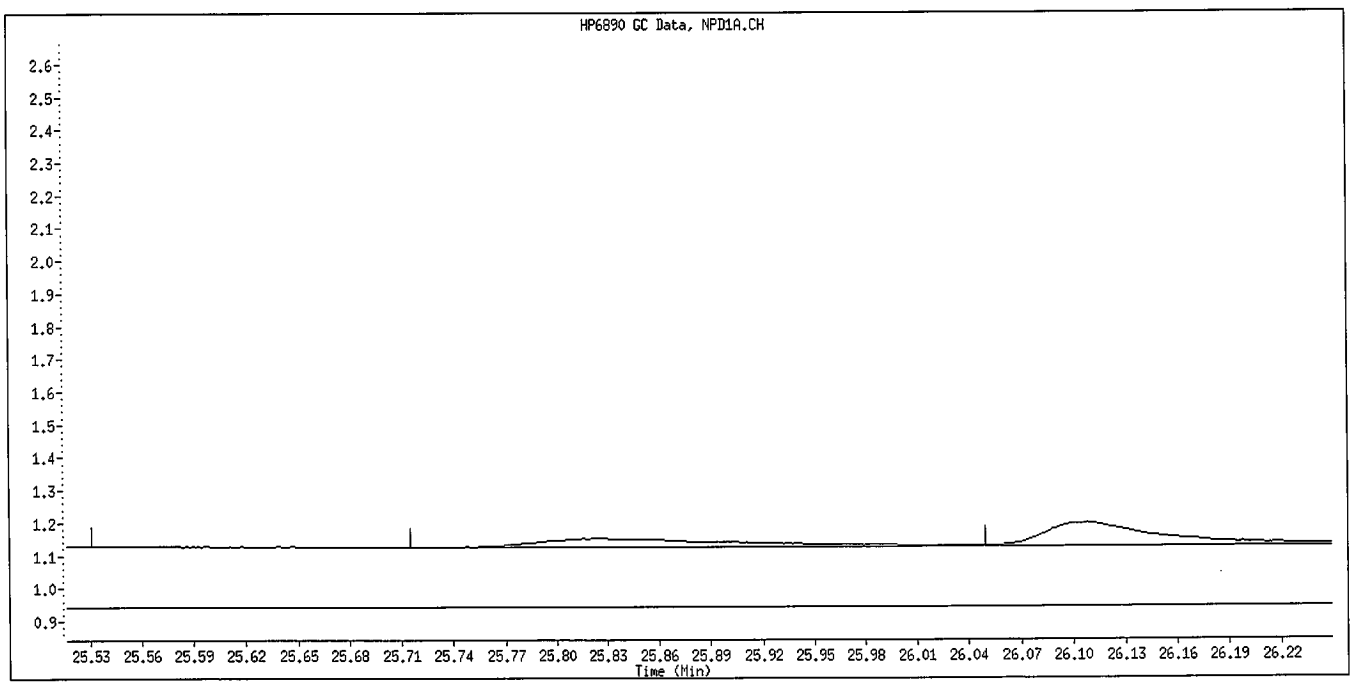
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Phosmet
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\010F1001.D
Lab Smp Id: 8141 SS GSV1107 Client Smp ID: 8141 SS GSV1107
Inj Date : 29-SEP-2009 16:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 SS GSV1107
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:47 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.263	4.260	(0.312)	662975	2.00000	2.028
	2 Dichlorvos	5.825	5.821	(0.427)	431366	2.00000	1.838
	3 Mevinphos	9.357	9.350	(0.685)	141564	2.00000	1.384
$	4 Chlormefos	9.465	9.466	(0.693)	586456	2.00000	1.930
	5 Thionazin	12.585	12.581	(0.922)	449061	2.00000	1.917
	6 Demeton-O	12.837	12.837	(0.940)	395623	0.65000	1.917
	7 Ethoprop	13.154	13.150	(0.964)	436594	2.00000	1.914
	8 Naled	13.435	13.431	(0.984)	143145	2.00000	1.874
*	9 Tributylphosphate	13.652	13.646	(1.000)	430831	2.00000	
	10 Sulfotepp	14.107	14.105	(1.033)	539115	2.00000	1.742
	11 Phorate	14.194	14.191	(1.040)	355210	2.00000	1.629
	12 Dimethoate	14.383	14.366	(1.054)	423508	2.00000	1.957
	13 Demeton-S	14.648	14.636	(1.073)	48550	1.36000	0.2011
	14 Simazine	14.764	14.756	(1.081)	143580	2.00000	1.940
	15 Atrazine	14.974	14.971	(1.097)	166856	2.00000	1.834
	16 propazine	15.154	15.152	(1.110)	171094	2.00000	1.817
	17 Disulfoton	15.838	15.835	(0.585)	333233	2.00000	1.903
	18 Diazinon	15.902	15.901	(0.588)	437524	2.00000	1.788
	19 Methyl Parathion	16.809	16.802	(0.621)	328271	2.00000	1.890
	20 Ronnel	17.427	17.422	(0.644)	354668	2.00000	1.910
	21 Malathion	18.097	18.094	(0.669)	239659	2.00000	1.758
	22 Fenthion	18.255	18.250	(0.675)	304926	2.00000	1.789
	23 Parathion	18.363	18.360	(0.679)	275293	2.00000	1.786
	24 Chlorpyrifos	18.417	18.416	(0.681)	487214	2.00000	1.876
	25 Trichloronate	18.923	18.921	(0.699)	376765	2.00000	1.702
	26 Anilazine	19.348	19.331	(0.715)	11249	2.00000	1.347(M)
	27 Merphos-A (Merphos)	19.769	19.763	(0.731)	24402	2.00000	1.051
	28 Tetrachlorvinphos (Stirophos)	20.492	20.483	(0.757)	213082	2.00000	1.708
	29 Tokuthion	21.242	21.237	(0.785)	364339	2.00000	1.859
	30 Merphos-B (Merphos Oxone)	21.491	21.486	(0.794)	328446	2.00000	2.168
	31 Carbophenothion-methyl	22.230	22.219	(0.822)	172645	2.00000	1.240
	32 Fensulfothion	22.419	22.401	(0.829)	269701	2.00000	1.734
	33 Bolstar / Famphur	23.585	23.575	(0.872)	644189	4.00000	3.966

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.908	23.899	(0.884)	321039	2.00000	1.927
$	35 Triphenyl phosphate	25.230	25.226	(0.932)	277059	2.00000	2.050(A)
	36 Phosmet	25.759	25.748	(0.952)	261945	2.00000	2.060
	37 EPN	26.083	26.075	(0.964)	323485	2.00000	1.984
	38 Azinphos-methyl	26.581	26.574	(0.982)	231547	2.00000	1.769
*	39 TOCP	27.060	27.058	(1.000)	293002	2.00000	
	40 Azinphos-ethyl	27.166	27.159	(1.004)	280474	2.00000	1.876
	41 Coumaphos	27.693	27.686	(1.023)	241408	2.00000	1.852
M	42 Total Demeton				444173	2.00000	2.118
M	43 Merphos				352848	2.00000	1.816

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

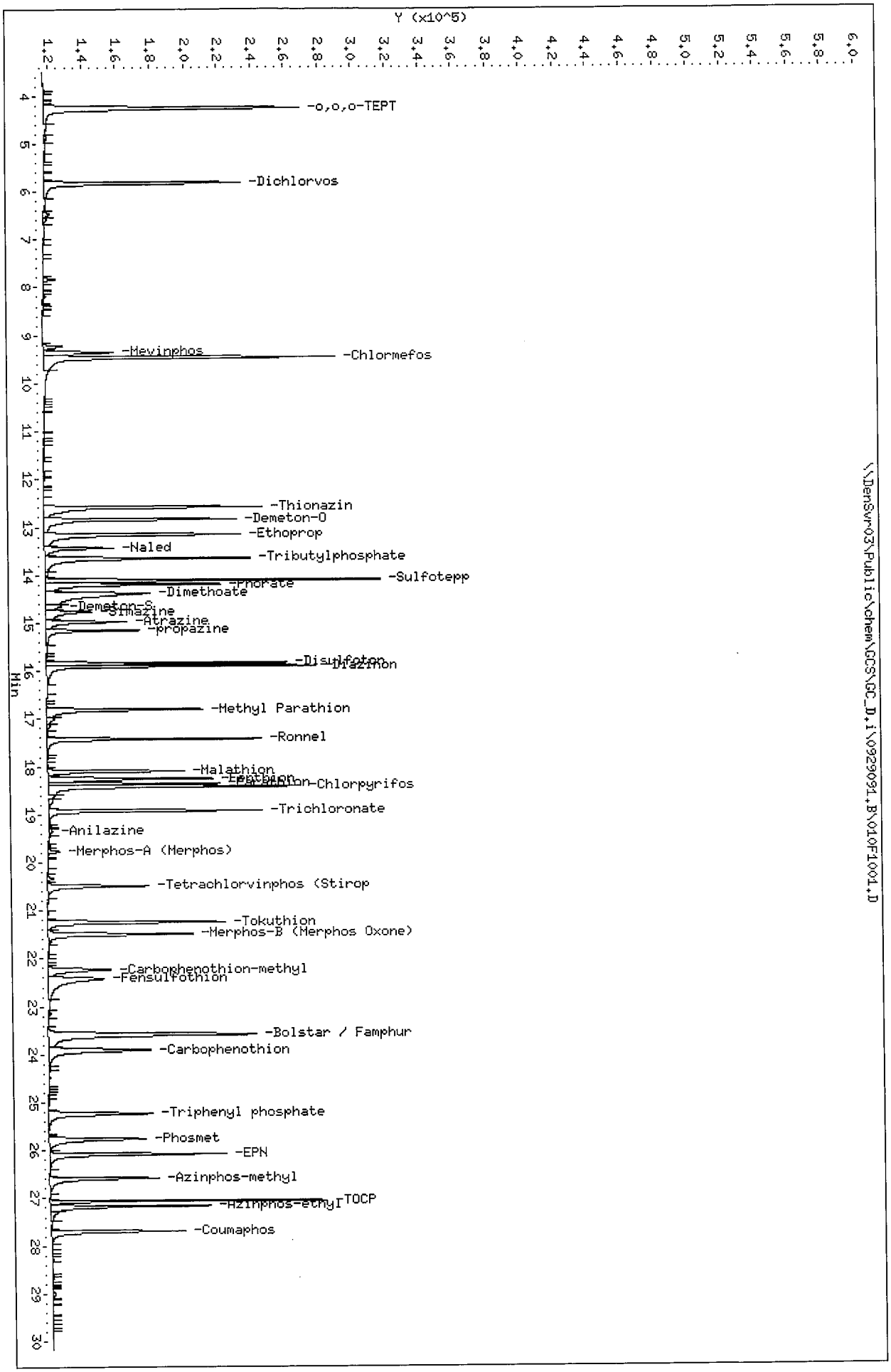
Instrument ID: GC_D.i
Lab File ID: 010F1001.D
Lab Smp Id: 8141 SS GSV1107
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 SS GSV1107
Level:
Sample Type:

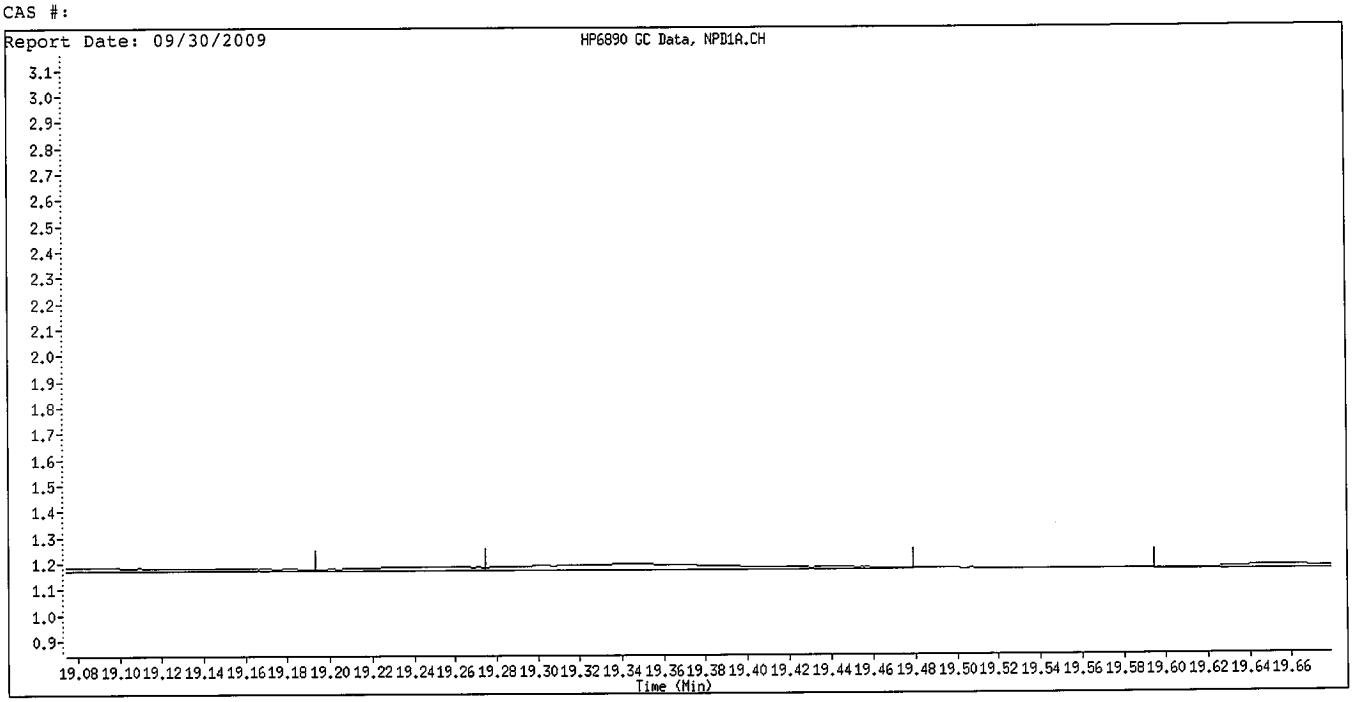
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	430831	-42.09
39 TOCP	484260	242130	968520	293002	-39.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.10
39 TOCP	27.06	26.56	27.56	27.06	0.02

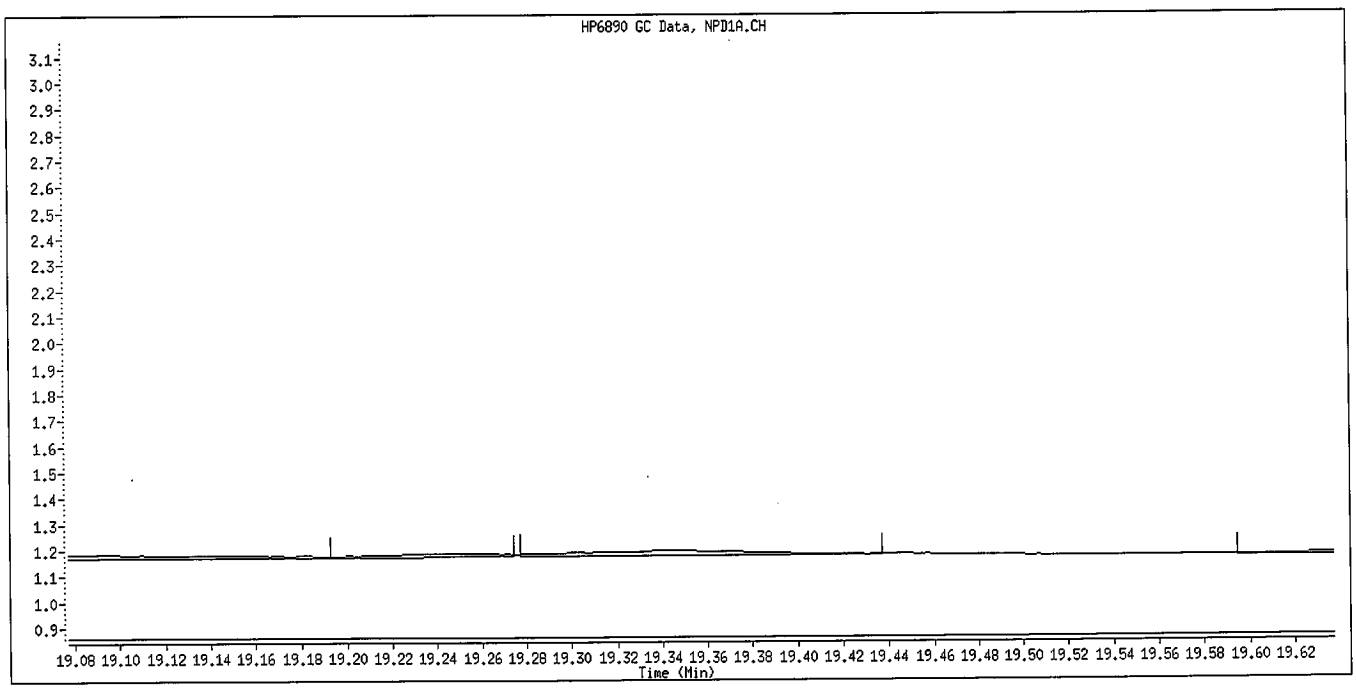
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\010F1001,D
Date : 29-SEP-2009 16:49
Client ID: 8141 SS GSV1107
Sample Info: 8141 SS GSV1107
Column phase: RTx-1MS
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\010F1001,D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Thionazin
-Demeton-O
-Ethoprop
-Naled
-Tributylphosphate
-Sulfotepp
-Phorate
-Dimethoate
-Demeton-S
-Simazine
-Atrazine
-propazine
-Disulfoton
Diazinon
-Methyl Parathion
-Ronnel
-Malathion
-Fenthion
-Parathion-Chlorpyrifos
-Trichloronate
-Anilazine
-Merphos-A (Merphos)
-Tetrachlorvinphos (Stirop
-Tokuthion
-Merphos-B (Merphos Oxone)
-Carbophenothion-methyl
-Fensulfothion
-Bolstar / Famphur
-Carbophenothion
-Triphenyl phosphate
-Phosmet
-EPN
-Azinphos-methyl
-Azinphos-ethyl
TOCP
-Coumaphos

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Anilazine
CAS #:



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D
Lab Smp Id: 8141 L7 GSV1077 Client Smp ID: 8141 L7 GSV1077
Inj Date : 29-SEP-2009 12:33
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L7 GSV1077
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.726	6.726	(0.417)	772865	5.00000	4.207
	2 Dichlorvos	8.901	8.903	(0.551)	609684	5.00000	4.660
$	3 Chlormefos	12.835	12.838	(0.795)	552249	5.00000	4.414
	4 Mevinphos	12.949	12.953	(0.802)	370427	5.00000	4.714
	5 Demeton-O	15.897	15.901	(0.985)	119414	1.62500	1.535
	6 Thionazin	16.023	16.027	(0.993)	518273	5.00000	4.580
*	7 Tributylphosphate	16.141	16.146	(1.000)	219381	2.00000	
	8 Ethoprop	16.286	16.290	(1.009)	585549	5.00000	4.599
	9 Naled	16.871	16.873	(1.045)	201383	5.00000	4.844
	10 Sulfotepp	17.187	17.189	(1.065)	695274	5.00000	4.740
	11 Phorate	17.223	17.225	(1.067)	457389	5.00000	4.552
	12 Demeton-S	17.908	17.914	(1.109)	292846	3.40000	3.250
	13 Simazine	18.321	18.324	(1.135)	107753	5.00000	4.955
	14 Atrazine / Propazine	18.387	18.391	(1.139)	421388	10.0000	10.02(A)
	15 Dimethoate	18.513	18.518	(1.147)	547217	5.00000	4.609
	16 Diazinon	18.915	18.919	(1.172)	476423	5.00000	4.385
	17 Disulfoton	19.177	19.182	(1.188)	484109	5.00000	4.393
	18 Methyl Parathion	21.077	21.081	(0.735)	409367	5.00000	4.938(A)
	19 Ronnel	21.166	21.170	(0.738)	498225	5.00000	5.024(A)
	20 Malathion	22.426	22.430	(0.782)	350626	5.00000	4.833
	21 Chlorpyrifos	22.581	22.586	(0.787)	473711	5.00000	5.058(A)
	22 Trichloronate	22.754	22.757	(0.793)	516721	5.00000	5.150(A)
	23 Parathion	22.803	22.810	(0.795)	432482	5.00000	4.741
	24 Fenthion	22.876	22.881	(0.798)	523921	5.00000	4.685
	25 Merphos-A (Merphos)	23.411	23.412	(0.816)	228536	5.00000	5.183(A)
	26 Anilazine	24.391	24.396	(0.850)	35306	5.00000	4.907
	27 Tetrachlorvinphos (stirophos)	25.825	25.828	(0.900)	330886	5.00000	4.981
	28 Tokuthion	26.007	26.009	(0.907)	494804	5.00000	5.179(A)
	29 Merphos-B (Merphos oxone)	26.139	26.142	(0.911)	303395	5.00000	3.617
	30 Carbophenothion methyl	26.975	26.976	(0.940)	352947	5.00000	4.892
	31 Fensulfothion	27.211	27.214	(0.949)	294034	5.00000	4.628
	32 Bolstar	27.324	27.326	(0.953)	377622	5.00000	4.498
	33 Carbophenothion	27.438	27.440	(0.957)	347667	5.00000	4.716

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.622	27.624	(0.963)	345194	5.00000	4.674
$	35 Triphenyl phosphate	27.913	27.914	(0.973)	289283	5.00000	4.632
	36 EPN	28.221	28.223	(0.984)	351202	5.00000	4.559
	37 Phosmet	28.346	28.348	(0.988)	305705	5.00000	4.606
*	38 TOCP	28.682	28.684	(1.000)	158977	2.00000	
	39 Azinphos-methyl	28.793	28.796	(1.004)	301398	5.00000	4.928
	40 Azinphos-ethyl	29.103	29.106	(1.015)	301170	5.00000	4.785
	41 Coumaphos	29.430	29.433	(1.026)	284996	5.00000	4.760
M	42 Total Demeton				412260	5.00000	4.786
M	43 Merphos				531931	5.00000	4.883(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

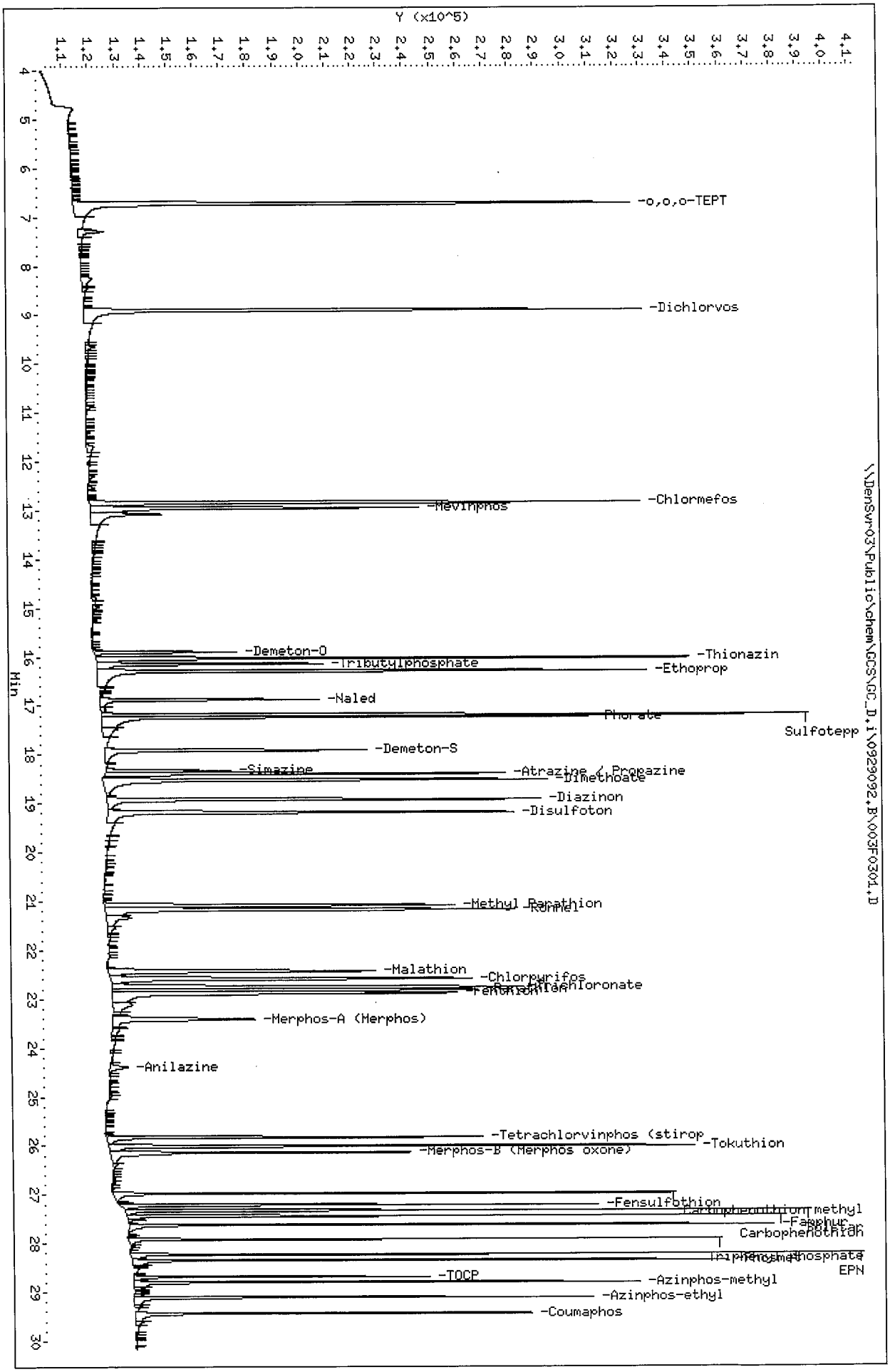
Instrument ID: GC_D.i
Lab File ID: 003F0301.D
Lab Smp Id: 8141 L7 GSV1077
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L7 GSV1077
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	219381	29.99
38 TOCP	129625	64813	259250	158977	22.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.14	-0.04
38 TOCP	28.68	28.18	29.18	28.68	-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\0929092,B\003F0301,D
Date : 29-SEP-2009 12:33
Client ID: 8141 L7 GSW1077
Sample Info: 8141 L7 GSW1077
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\003F0301,D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Tributylphosphate
-Thionazin
-Ethoprop
-Naled
-Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Fensulfothion
-TOCP
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos
EPN

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Lab Smp Id: 8141 L6 GSV1078 Client Smp ID: 8141 L6 GSV1078
Inj Date : 29-SEP-2009 13:09
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L6 GSV1078
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 12:33 Cal File: 003F0301.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.726	6.726	(0.417)	619522	4.00000	3.787
	2 Dichlorvos	8.902	8.903	(0.551)	450663	4.00000	3.869
$	3 Chlormefos	12.836	12.838	(0.795)	420046	4.00000	3.771
	4 Mevinphos	12.950	12.953	(0.802)	281626	4.00000	4.025
	5 Demeton-O	15.898	15.901	(0.985)	90724	1.30000	1.310
	6 Thionazin	16.025	16.027	(0.993)	400261	4.00000	3.972
*	7 Tributylphosphate	16.142	16.146	(1.000)	195315	2.00000	
	8 Ethoprop	16.287	16.290	(1.009)	456780	4.00000	3.996
	9 Naled	16.873	16.873	(1.045)	153119	4.00000	4.153
	10 Sulfotepp	17.187	17.189	(1.065)	536170	4.00000	4.076
	11 Phorate	17.224	17.225	(1.067)	366311	4.00000	4.078
	12 Demeton-S	17.911	17.914	(1.110)	218626	2.72000	2.730
	13 Simazine	18.322	18.324	(1.135)	77526	4.00000	4.068
	14 Atrazine / Propazine	18.387	18.391	(1.139)	307271	8.00000	8.217(A)
	15 Dimethoate	18.514	18.518	(1.147)	414494	4.00000	3.939
	16 Diazinon	18.916	18.919	(1.172)	369629	4.00000	3.822
	17 Disulfoton	19.178	19.182	(1.188)	381324	4.00000	3.887
	18 Methyl Parathion	21.078	21.081	(0.735)	308584	4.00000	4.024(A)
	19 Ronnel	21.166	21.170	(0.738)	372879	4.00000	4.046
	20 Malathion	22.426	22.430	(0.782)	267260	4.00000	3.970
	21 Chlorpyrifos	22.582	22.586	(0.787)	349915	4.00000	4.030
	22 Trichloronate	22.755	22.757	(0.793)	378490	4.00000	4.072
	23 Parathion	22.806	22.810	(0.795)	341103	4.00000	4.032
	24 Fenthion	22.877	22.881	(0.798)	396533	4.00000	3.816
	25 Merphos-A (Merphos)	23.410	23.412	(0.816)	162051	4.00000	4.133
	26 Anilazine	24.392	24.396	(0.850)	26232	4.00000	3.954
	27 Tetrachlorvinphos (stirophos)	25.826	25.828	(0.900)	242093	4.00000	4.021
	28 Tokuthion	26.007	26.009	(0.907)	369539	4.00000	4.162
	29 Merphos-B (Merphos oxone)	26.142	26.142	(0.911)	239054	4.00000	3.067
	30 Carbophenothion methyl	26.975	26.976	(0.940)	269754	4.00000	4.030
	31 Fensulfothion	27.212	27.214	(0.949)	232294	4.00000	3.942
	32 Bolstar	27.325	27.326	(0.953)	304199	4.00000	3.899
	33 Carbophenothion	27.439	27.440	(0.957)	270609	4.00000	3.956

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.623	27.624	(0.963)	273389	4.00000	3.992
$	35 Triphenyl phosphate	27.913	27.914	(0.973)	230548	4.00000	3.973
	36 EPN	28.221	28.223	(0.984)	277935	4.00000	3.883
	37 Phosmet	28.346	28.348	(0.988)	262610	4.00000	4.258
*	38 TOCP	28.682	28.684	(1.000)	147725	2.00000	
	39 Azinphos-methyl	28.794	28.796	(1.004)	229899	4.00000	4.025
	40 Azinphos-ethyl	29.104	29.106	(1.015)	238500	4.00000	4.046
	41 Coumaphos	29.429	29.433	(1.026)	222813	4.00000	3.979
M	42 Total Demeton				309350	4.00000	4.040
M	43 Merphos				401105	4.00000	3.966(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

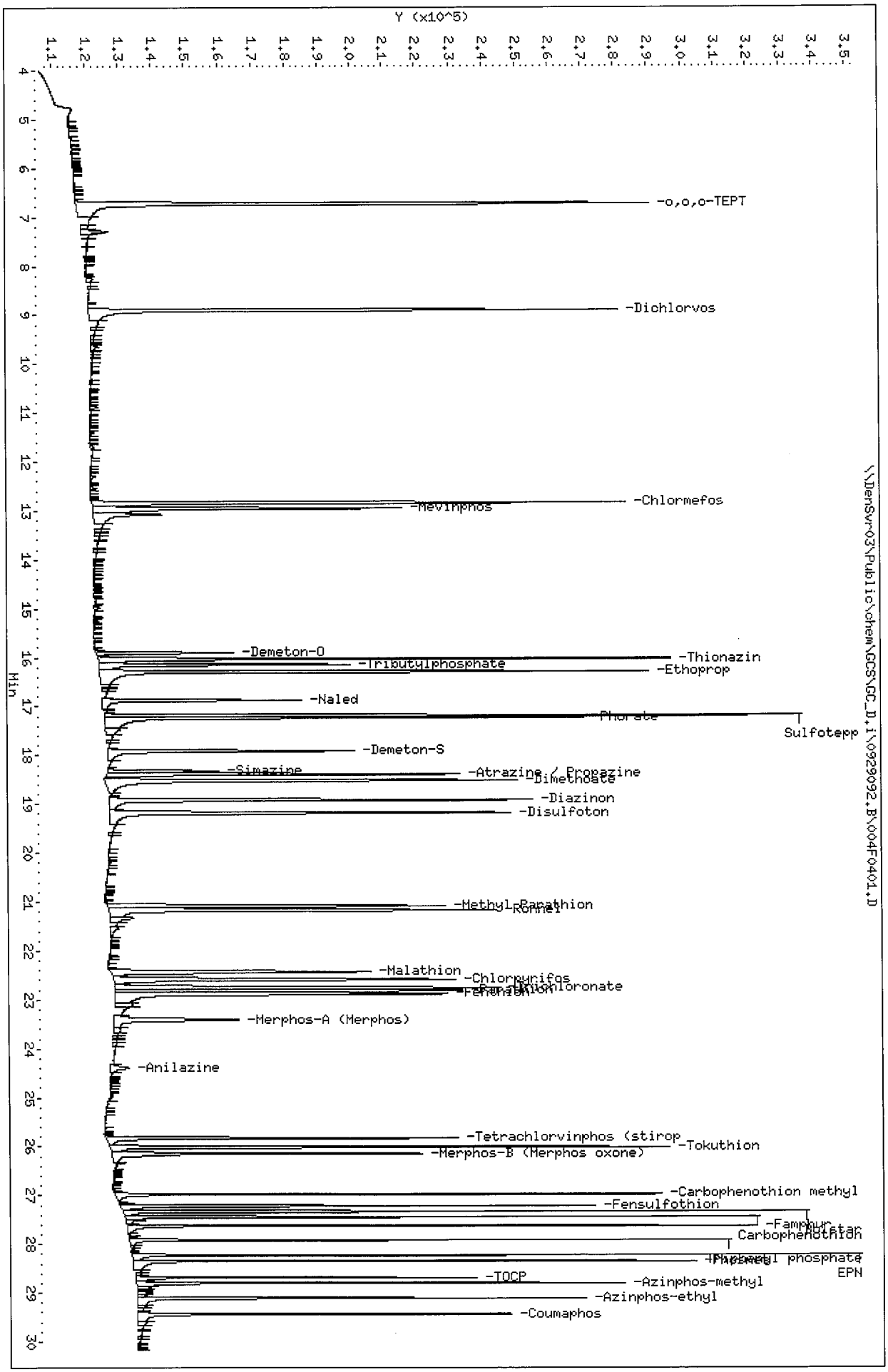
Instrument ID: GC_D.i
Lab File ID: 004F0401.D
Lab Smp Id: 8141 L6 GSV1078
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L6 GSV1078
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	195315	15.73
38 TOCP	129625	64813	259250	147725	13.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.14	-0.04
38 TOCP	28.68	28.18	29.18	28.68	-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\0929092.B\004F0401.D
Date : 29-SEP-2009 13:09
Client ID: 8141 L6 GSV1078
Sample Info: 8141 L6 GSV1078
Column phase: RTx-OPPest
\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Lab Smp Id: 8141 L5 GSV1079 Client Smp ID: 8141 L5 GSV1079
Inj Date : 29-SEP-2009 13:46
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L5 GSV1079
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:09 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.725	6.726	(0.417)	440556	3.00000	2.924
	2 Dichlorvos	8.903	8.903	(0.551)	312239	3.00000	2.910
$	3 Chlormefos	12.838	12.838	(0.795)	298226	3.00000	2.906
	4 Mevinphos	12.953	12.953	(0.802)	200396	3.00000	3.109
	5 Demeton-O	15.900	15.901	(0.985)	63841	0.97500	1.001
	6 Thionazin	16.027	16.027	(0.993)	286900	3.00000	3.091
*	7 Tributylphosphate	16.145	16.146	(1.000)	179919	2.00000	
	8 Ethoprop	16.289	16.290	(1.009)	339190	3.00000	3.168
	9 Naled	16.873	16.873	(1.045)	104633	3.00000	3.108
	10 Sulfotepp	17.188	17.189	(1.065)	391784	3.00000	3.187
	11 Phorate	17.224	17.225	(1.067)	267547	3.00000	3.199
	12 Demeton-S	17.913	17.914	(1.110)	148807	2.04000	2.024
	13 Simazine	18.323	18.324	(1.135)	50934	3.00000	2.997
	14 Atrazine / Propazine	18.390	18.391	(1.139)	207143	6.00000	6.026(A)
	15 Dimethoate	18.518	18.518	(1.147)	296888	3.00000	3.088
	16 Diazinon	18.918	18.919	(1.172)	266007	3.00000	2.986
	17 Disulfoton	19.182	19.182	(1.188)	266889	3.00000	2.953
	18 Methyl Parathion	21.080	21.081	(0.735)	218781	3.00000	3.110(A)
	19 Ronnel	21.169	21.170	(0.738)	263521	3.00000	3.094
	20 Malathion	22.429	22.430	(0.782)	191342	3.00000	3.083
	21 Chlorpyrifos	22.585	22.586	(0.787)	244884	3.00000	3.063
	22 Trichloronate	22.757	22.757	(0.793)	261483	3.00000	3.058
	23 Parathion	22.809	22.810	(0.795)	239376	3.00000	3.075
	24 Fenthion	22.880	22.881	(0.798)	294303	3.00000	3.064
	25 Merphos-A (Merphos)	23.412	23.412	(0.816)	73838	3.00000	2.419
	26 Anilazine	24.395	24.396	(0.850)	19918	3.00000	3.275
	27 Tetrachlorvinphos (stirophos)	25.828	25.828	(0.900)	164289	3.00000	3.035
	28 Tokuthion	26.008	26.009	(0.907)	260483	3.00000	3.174
	29 Merphos-B (Merphos oxone)	26.142	26.142	(0.911)	209630	3.00000	2.910
	30 Carbophenothion methyl	26.975	26.976	(0.940)	192332	3.00000	3.118
	31 Fensulfothion	27.213	27.214	(0.949)	171184	3.00000	3.153
	32 Bolstar	27.325	27.326	(0.953)	225411	3.00000	3.126
	33 Carbophenothion	27.439	27.440	(0.957)	194237	3.00000	3.078

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.623	27.624	(0.963)	195770	3.00000	3.106
$	35 Triphenyl phosphate	27.913	27.914	(0.973)	167583	3.00000	3.124
	36 EPN	28.223	28.223	(0.984)	204647	3.00000	3.093
	37 Phosmet	28.348	28.348	(0.988)	182870	3.00000	3.208
*	38 TOCP	28.683	28.684	(1.000)	136544	2.00000	
	39 Azinphos-methyl	28.795	28.796	(1.004)	166083	3.00000	3.121
	40 Azinphos-ethyl	29.106	29.106	(1.015)	171561	3.00000	3.100
	41 Coumaphos	29.433	29.433	(1.026)	160902	3.00000	3.073
M	42 Total Demeton				212648	3.00000	3.025
M	43 Merphos				283468	3.00000	3.037(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

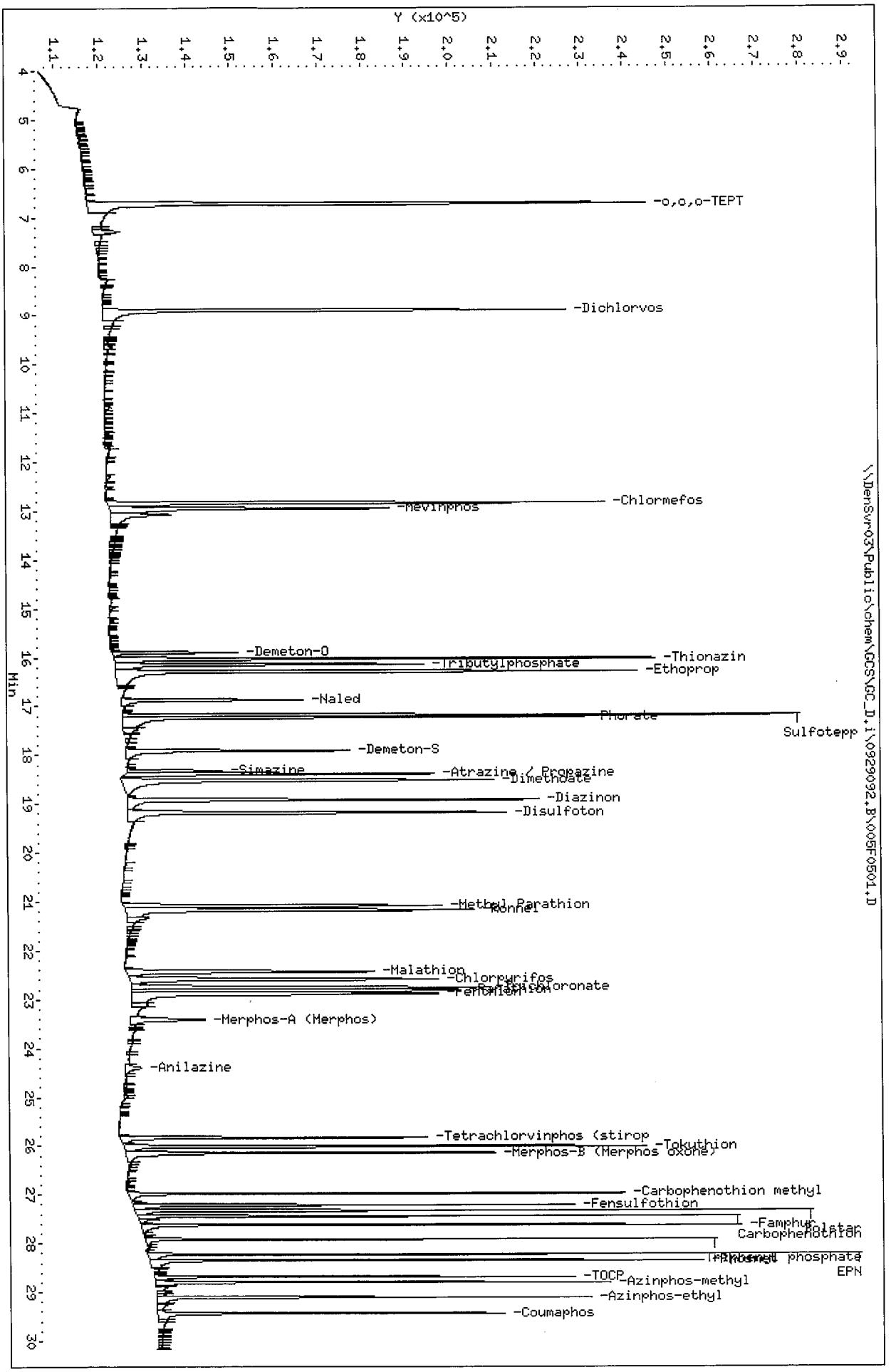
Instrument ID: GC_D.i
Lab File ID: 005F0501.D
Lab Smp Id: 8141 L5 GSV1079
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L5 GSV1079
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	179919	6.61
38 TOCP	129625	64813	259250	136544	5.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	-0.02
38 TOCP	28.68	28.18	29.18	28.68	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\0929092.B\005F0501.D
Date : 29-SEP-2009 13:46
Client ID: 8141 L5 GSV1079
Sample Info: 8141 L5 GSV1079
Column phase: RTx-OPPest

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Lab Smp Id: 8141 L4 GSV1080 Client Smp ID: 8141 L4 GSV1080
Inj Date : 29-SEP-2009 14:22
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L4 GSV1080
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:46 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.725	6.726	(0.417)	310103	2.00000	1.964
	2 Dichlorvos	8.902	8.903	(0.551)	206350	2.00000	1.836
$	3 Chlormefos	12.835	12.838	(0.795)	206244	2.00000	1.918
	4 Mevinphos	12.952	12.953	(0.802)	136078	2.00000	2.015
	5 Demeton-O	15.899	15.901	(0.985)	42675	0.65000	0.6386
	6 Thionazin	16.025	16.027	(0.993)	196127	2.00000	2.017
*	7 Tributylphosphate	16.144	16.146	(1.000)	188507	2.00000	
	8 Ethoprop	16.289	16.290	(1.009)	231940	2.00000	1.972
	9 Naled	16.872	16.873	(1.045)	66048	2.00000	1.914
	10 Sulfotepp	17.187	17.189	(1.065)	278947	2.00000	2.095
	11 Phorate	17.225	17.225	(1.067)	186434	2.00000	2.071
	12 Demeton-S	17.914	17.914	(1.110)	105446	1.36000	1.377
	13 Simazine	18.323	18.324	(1.135)	32796	2.00000	1.970
	14 Atrazine / Propazine	18.387	18.391	(1.139)	137441	4.00000	3.833
	15 Dimethoate	18.519	18.518	(1.147)	200683	2.00000	2.033
	16 Diazinon	18.917	18.919	(1.172)	188199	2.00000	2.016
	17 Disulfoton	19.180	19.182	(1.188)	193559	2.00000	2.044
	18 Methyl Parathion	21.080	21.081	(0.735)	145647	2.00000	1.950
	19 Ronnel	21.166	21.170	(0.738)	177999	2.00000	1.929
	20 Malathion	22.430	22.430	(0.782)	132229	2.00000	1.979
	21 Chlorpyrifos	22.584	22.586	(0.787)	166943	2.00000	1.945
	22 Trichloronate	22.759	22.757	(0.793)	175644	2.00000	1.919
	23 Parathion	22.808	22.810	(0.795)	163192	2.00000	1.957
	24 Fenthion	22.879	22.881	(0.798)	204919	2.00000	1.970
	25 Merphos-A (Merphos)	23.409	23.412	(0.816)	43136	2.00000	1.651
	26 Anilazine	24.402	24.396	(0.851)	11478	2.00000	1.813
	27 Tetrachlorvinphos (stirophos)	25.828	25.828	(0.900)	110089	2.00000	1.953
	28 Tokuthion	26.010	26.009	(0.907)	179763	2.00000	2.023
	29 Merphos-B (Merphos oxone)	26.140	26.142	(0.911)	159237	2.00000	2.041
	30 Carbophenothion methyl	26.975	26.976	(0.940)	127195	2.00000	1.919
	31 Fensulfothion	27.214	27.214	(0.949)	117044	2.00000	2.009
	32 Bolstar	27.325	27.326	(0.953)	159586	2.00000	2.043
	33 Carbophenothion	27.439	27.440	(0.957)	133833	2.00000	1.970

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.623	27.624	(0.963)	137487	2.00000	2.035
$	35 Triphenyl phosphate	27.914	27.914	(0.973)	117620	2.00000	2.025
	36 EPN	28.221	28.223	(0.984)	143938	2.00000	2.009
	37 Phosmet	28.348	28.348	(0.988)	120409	2.00000	1.950
*	38 TOCP	28.683	28.684	(1.000)	147884	2.00000	
	39 Azinphos-methyl	28.796	28.796	(1.004)	115656	2.00000	1.967
	40 Azinphos-ethyl	29.106	29.106	(1.015)	126800	2.00000	2.047
	41 Coumaphos	29.432	29.433	(1.026)	114650	2.00000	1.965
M	42 Total Demeton				148121	2.00000	2.016
M	43 Merphos				202373	2.00000	2.008(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

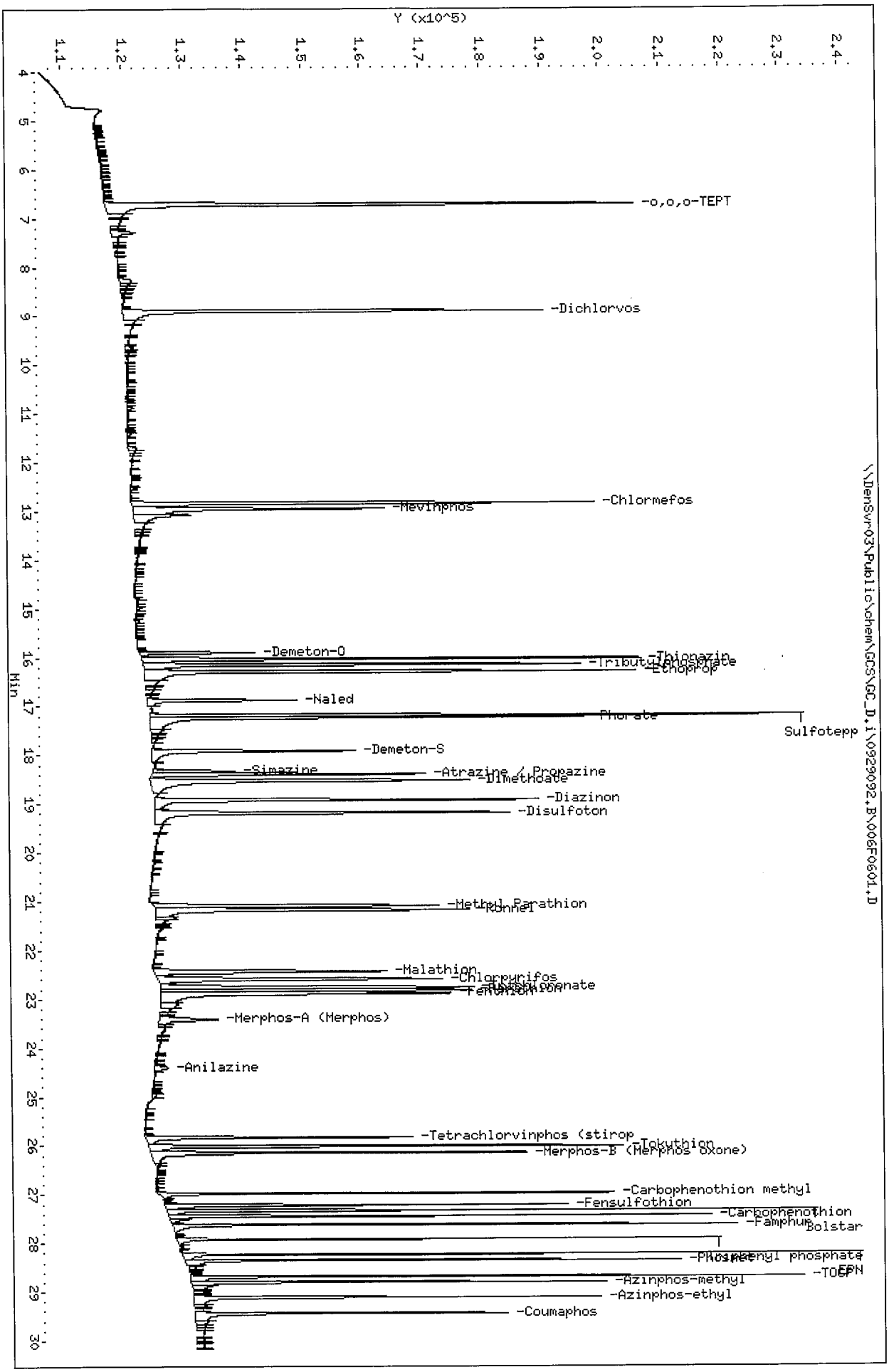
Instrument ID: GC_D.i
Lab File ID: 006F0601.D
Lab Smp Id: 8141 L4 GSV1080
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L4 GSV1080
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	188507	11.69
38 TOCP	129625	64813	259250	147884	14.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.14	-0.03
38 TOCP	28.68	28.18	29.18	28.68	-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 : 29-SEP-2009 14:22
Client ID: 8141 L4 GSV1080
Sample Info: 8141 L4 GSV1080
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\006F0601.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Thionazin
-Tributyl phosphate
-Ethoprop
-Naled
-Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Fenthion
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Merphos-B (Merphos Oxone)
-Carbophenothion methyl
-Fensulfothion
-Carbophenothion
-Famphur
Bolstar
-TOCP
EPN
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Lab Smp Id: 8141 L3 GSV1081 Client Smp ID: 8141 L3 GSV1081
Inj Date : 29-SEP-2009 14:59
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L3 GSV1081
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:22 Cal File: 006F0601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.726	6.726	(0.417)	161855	1.00000	1.146
	2 Dichlorvos	8.905	8.903	(0.551)	106503	1.00000	1.059
$	3 Chlormefos	12.838	12.838	(0.795)	108558	1.00000	1.129
	4 Mevinphos	12.955	12.953	(0.802)	69109	1.00000	1.144
	5 Demeton-O	15.903	15.901	(0.985)	21599	0.32500	0.3614
	6 Thionazin	16.029	16.027	(0.993)	99590	1.00000	1.145
*	7 Tributylphosphate	16.149	16.146	(1.000)	168604	2.00000	
	8 Ethoprop	16.292	16.290	(1.009)	117585	1.00000	0.9984
	9 Naled	16.877	16.873	(1.045)	27100	1.00000	0.9345
	10 Sulfotepp	17.191	17.189	(1.065)	147729	1.00000	1.150(M)
	11 Phorate	17.227	17.225	(1.067)	94044	1.00000	1.095(M)
	12 Demeton-S	17.920	17.914	(1.110)	48449	0.68000	0.7199
	13 Simazine	18.331	18.324	(1.135)	12318	1.00000	1.021
	14 Atrazine / Propazine	18.395	18.391	(1.139)	66367	2.00000	2.091
	15 Dimethoate	18.530	18.518	(1.147)	90330	1.00000	1.080
	16 Diazinon	18.922	18.919	(1.172)	94294	1.00000	1.129
	17 Disulfoton	19.185	19.182	(1.188)	94535	1.00000	1.116
	18 Methyl Parathion	21.086	21.081	(0.735)	72062	1.00000	1.039
	19 Ronnel	21.171	21.170	(0.738)	95255	1.00000	1.058
	20 Malathion	22.434	22.430	(0.782)	67405	1.00000	1.051
	21 Chlorpyrifos	22.590	22.586	(0.788)	83511	1.00000	1.020
	22 Trichloronate	22.761	22.757	(0.793)	87602	1.00000	1.010
	23 Parathion	22.814	22.810	(0.795)	83031	1.00000	1.048
	24 Fenthion	22.884	22.881	(0.798)	111052	1.00000	1.094
	25 Merphos-A (Merphos)	23.411	23.412	(0.816)	14025	1.00000	1.052
	26 Anilazine	24.407	24.396	(0.851)	5957	1.00000	1.035(M)
	27 Tetrachlorvinphos (stirophos)	25.832	25.828	(0.901)	50985	1.00000	0.9952
	28 Tokuthion	26.012	26.009	(0.907)	89595	1.00000	1.033
	29 Merphos-B (Merphos oxone)	26.145	26.142	(0.911)	87486	1.00000	1.150
	30 Carbophenothion methyl	26.979	26.976	(0.941)	66286	1.00000	1.043
	31 Fensulfothion	27.217	27.214	(0.949)	59611	1.00000	1.072
	32 Bolstar	27.328	27.326	(0.953)	84184	1.00000	1.105
	33 Carbophenothion	27.442	27.440	(0.957)	70538	1.00000	1.078

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.626	27.624	(0.963)	67281	1.00000	1.050
$	35 Triphenyl phosphate	27.916	27.914	(0.973)	62457	1.00000	1.102
	36 EPN	28.224	28.223	(0.984)	78570	1.00000	1.124
	37 Phosmet	28.351	28.348	(0.988)	65056	1.00000	1.080
*	38 TOCP	28.685	28.684	(1.000)	144252	2.00000	
	39 Azinphos-methyl	28.799	28.796	(1.004)	63061	1.00000	1.050
	40 Azinphos-ethyl	29.109	29.106	(1.015)	67533	1.00000	1.019
	41 Coumaphos	29.436	29.433	(1.026)	63215	1.00000	1.039
M	42 Total Demeton				70048	1.00000	1.081
M	43 Merphos				101511	1.00000	1.042

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

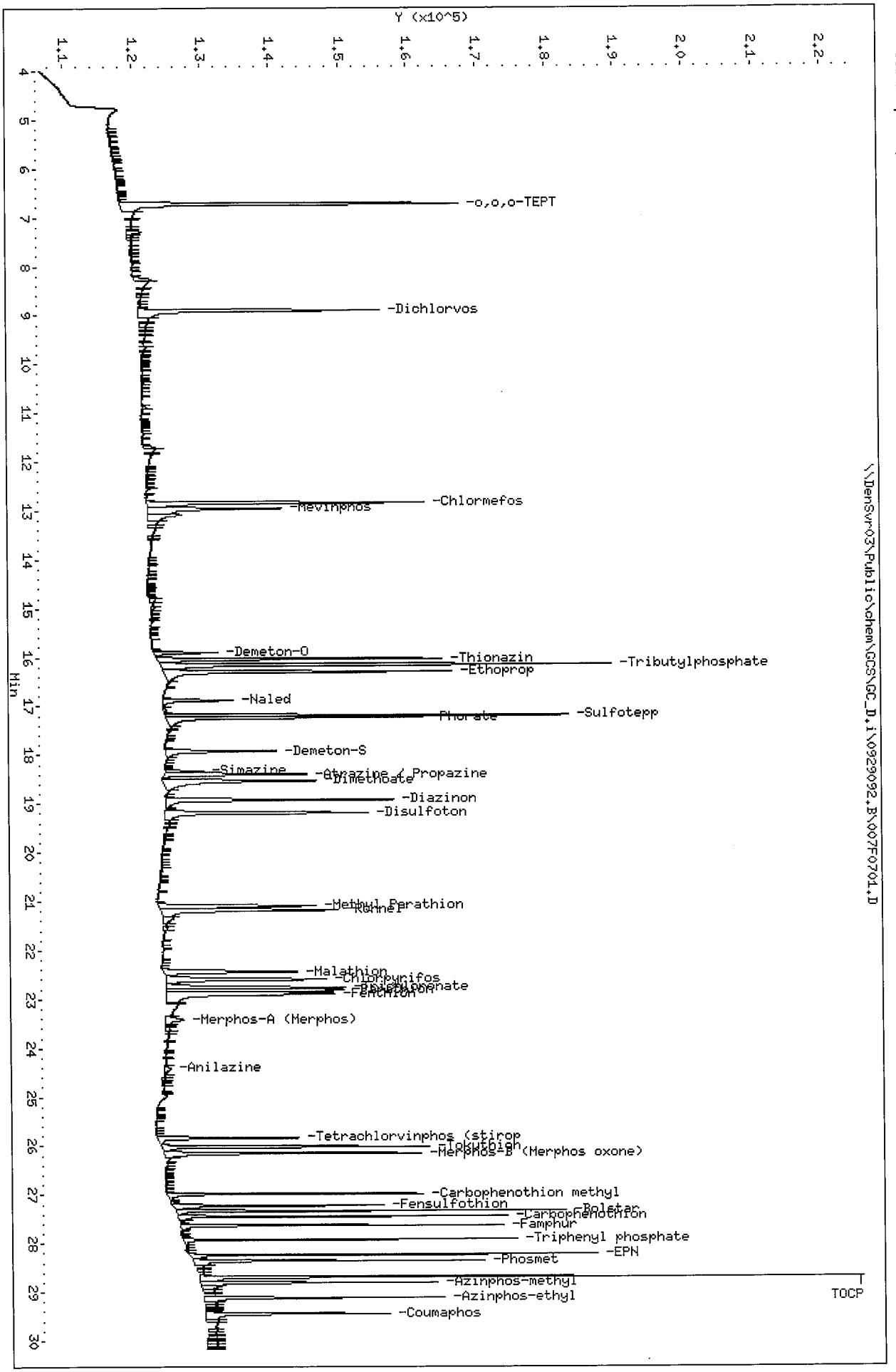
Instrument ID: GC_D.i
Lab File ID: 007F0701.D
Lab Smp Id: 8141 L3 GSV1081
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L3 GSV1081
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	168604	-0.10
38 TOCP	129625	64813	259250	144252	11.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	0.00
38 TOCP	28.68	28.18	29.18	28.69	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.



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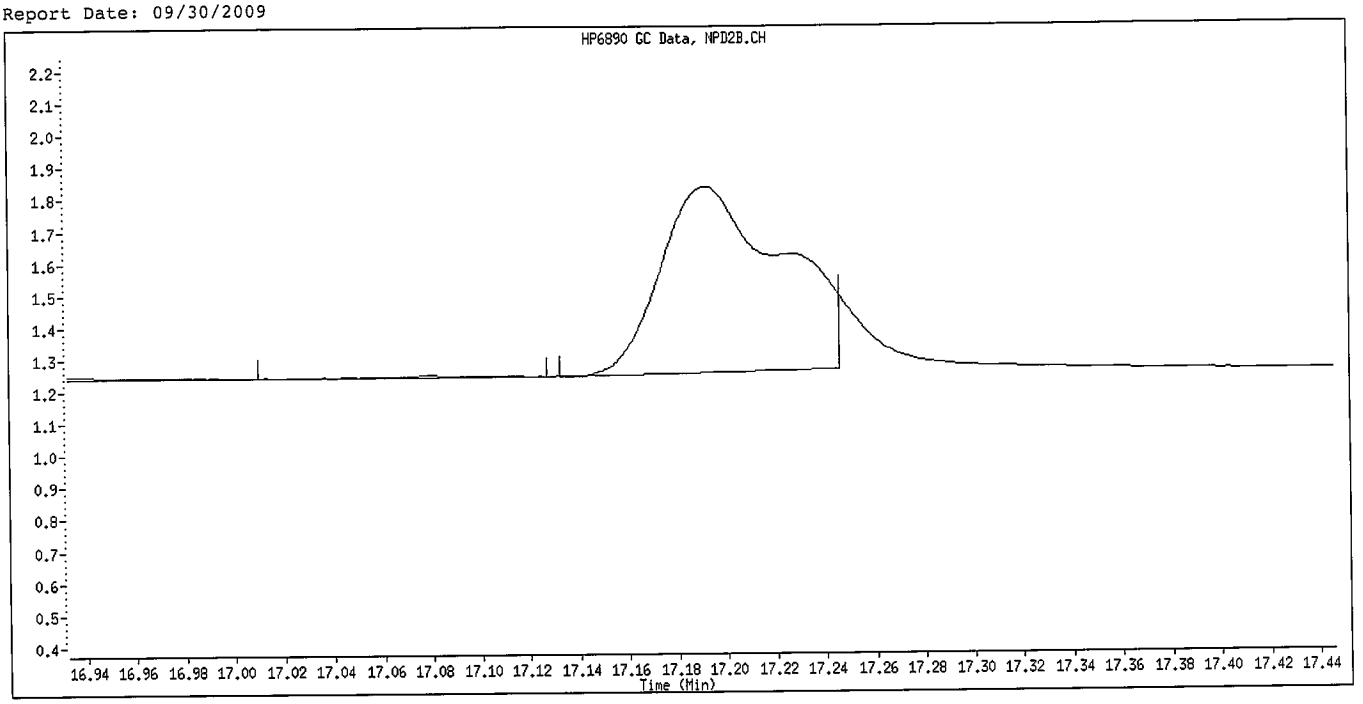
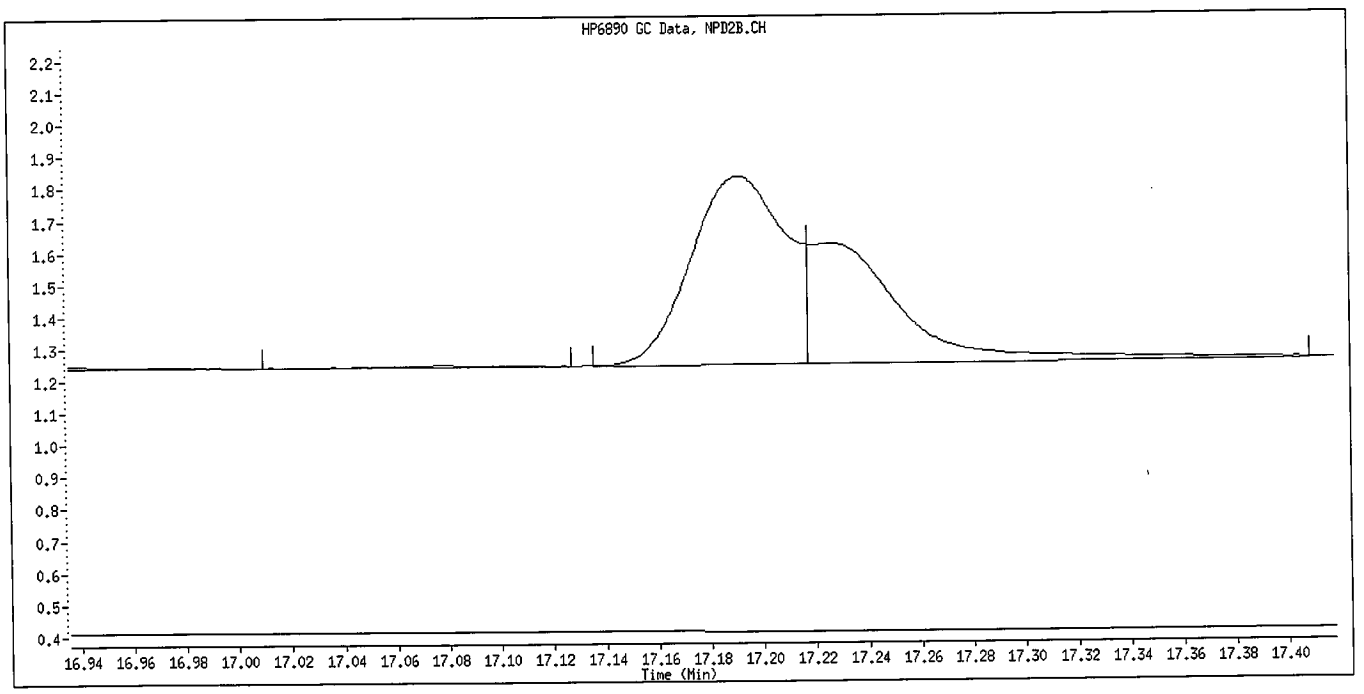
Date : 29-SEP-2009 14:59
Client ID: 8141 L3 GSV1081
Sample Info: 8141 L3 GSV1081
Column phase: RTx-OPPest

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Sulfotepp
CAS #:
Report Date: 09/30/2009



Original Integration

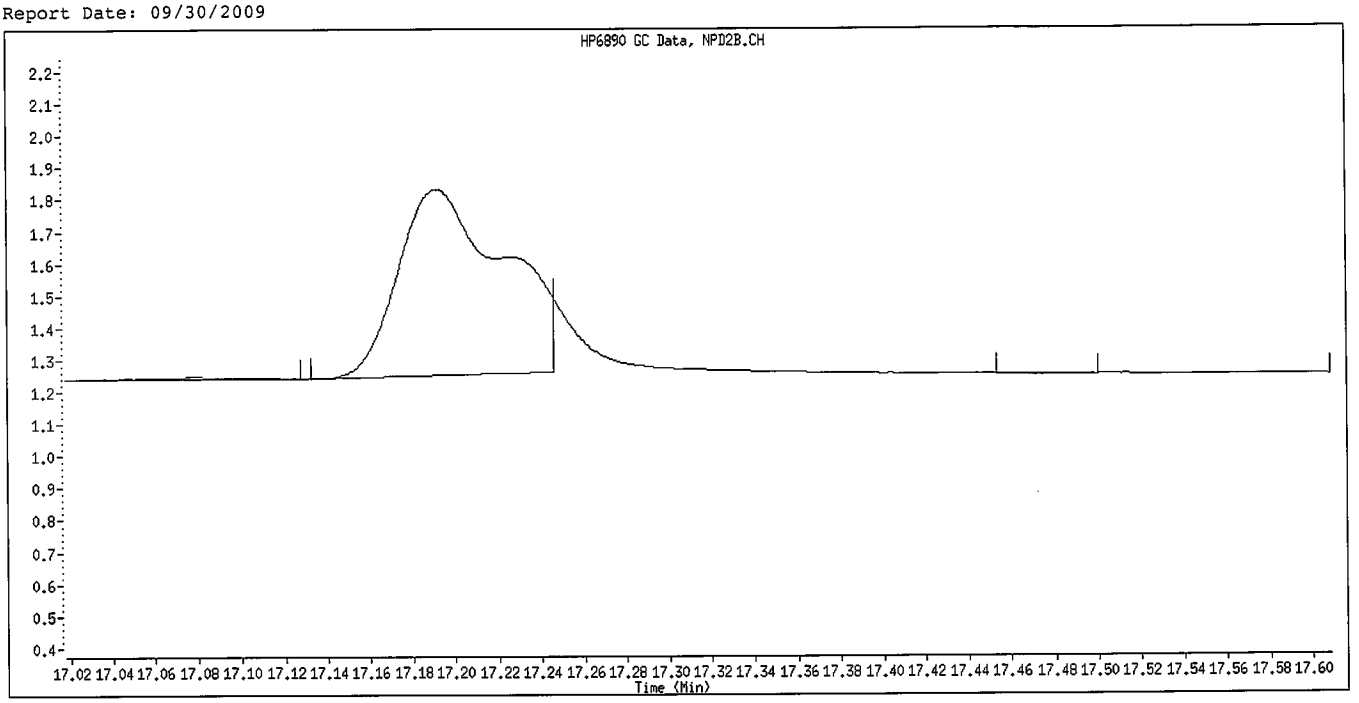


Manual Integration

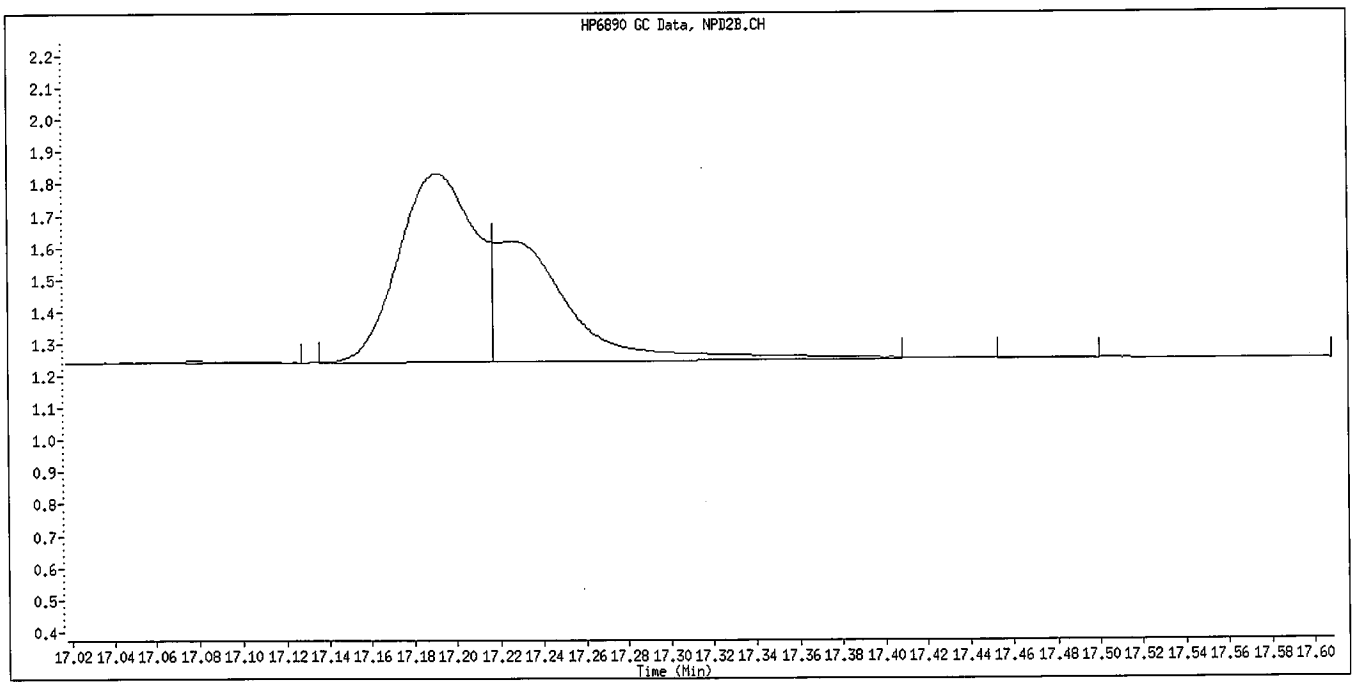
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration

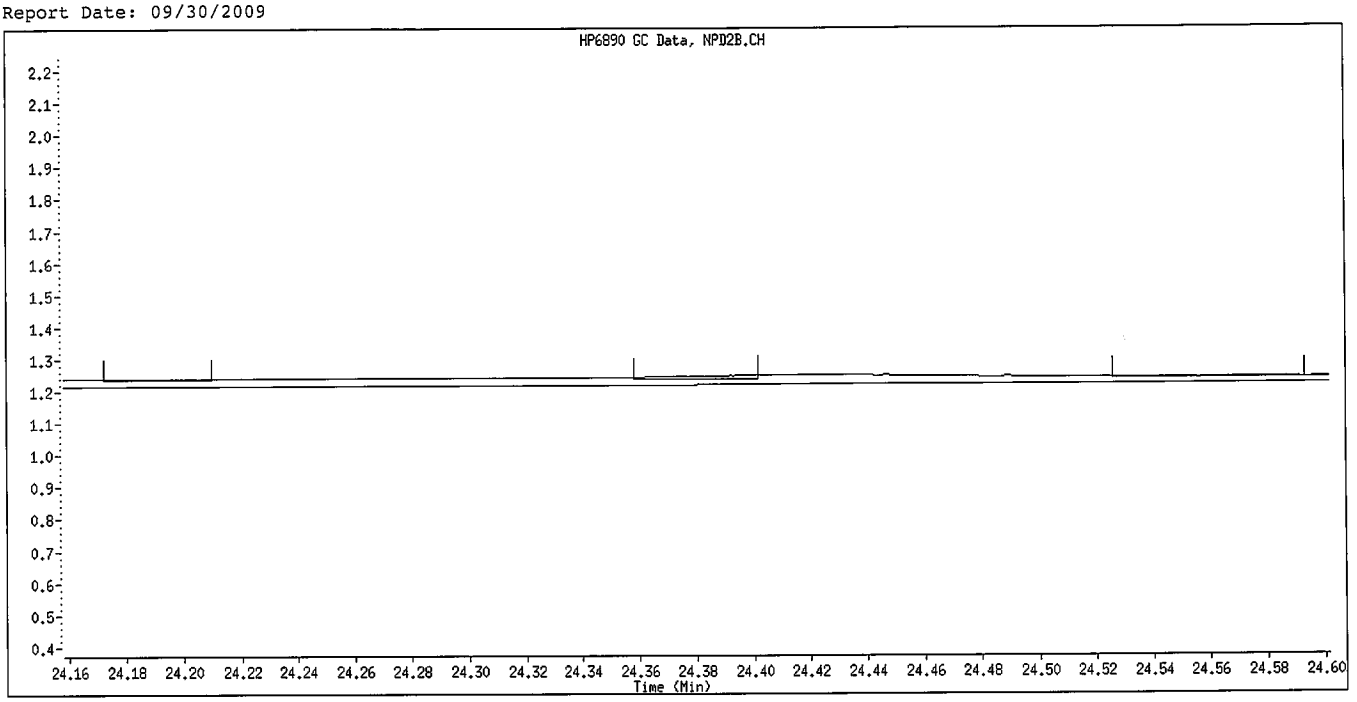


Manual Integration

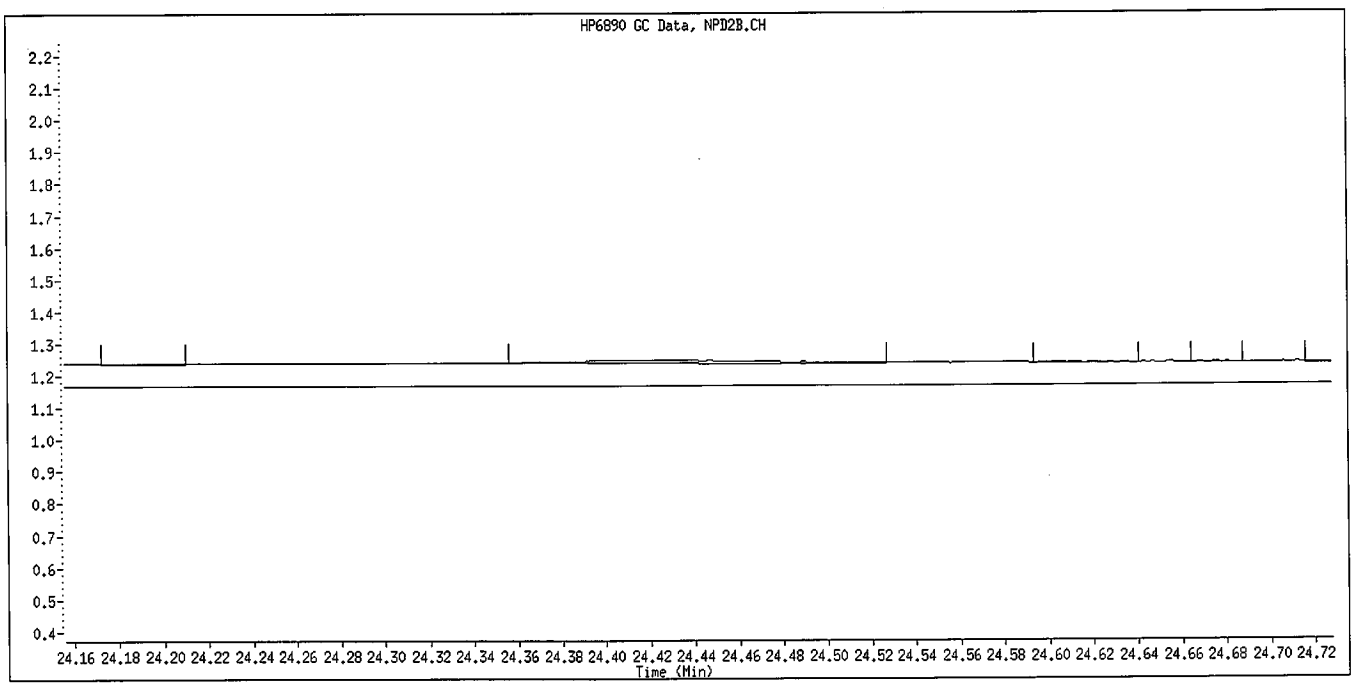
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

BAS - Baseline Event

2nd 9/30/09

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Lab Smp Id: 8141 L2 GSV1082 Client Smp ID: 8141 L2 GSV1082
Inj Date : 29-SEP-2009 15:35
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L2 GSV1082
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:59 Cal File: 007F0701.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.729	6.726	(0.417)	82035	0.50000	0.5441
	2 Dichlorvos	8.908	8.903	(0.551)	54251	0.50000	0.5054
$	3 Chlormefos	12.839	12.838	(0.795)	51707	0.50000	0.5036
	4 Mevinphos	12.960	12.953	(0.802)	31965	0.50000	0.4957
	5 Demeton-O	15.903	15.901	(0.985)	10143	0.16250	0.1589
	6 Thionazin	16.033	16.027	(0.993)	46840	0.50000	0.5044
*	7 Tributylphosphate	16.153	16.146	(1.000)	180030	2.00000	
	8 Ethoprop	16.295	16.290	(1.009)	78683	0.50000	0.5230
	9 Naled	16.880	16.873	(1.045)	10270	0.50000	0.3991
	10 Sulfotepp	17.191	17.189	(1.064)	72236	0.50000	0.4064(M)
	11 Phorate	17.228	17.225	(1.067)	46032	0.50000	0.4110(M)
	12 Demeton-S	17.928	17.914	(1.110)	22639	0.34000	0.3295
	13 Simazine	18.342	18.324	(1.136)	2982	0.50000	0.4893
	14 Atrazine / Propazine	18.401	18.391	(1.139)	30702	1.00000	0.9325
	15 Dimethoate	18.547	18.518	(1.148)	35698	0.50000	0.4719
	16 Diazinon	18.925	18.919	(1.172)	45379	0.50000	0.5090
	17 Disulfoton	19.190	19.182	(1.188)	45667	0.50000	0.5050
	18 Methyl Parathion	21.095	21.081	(0.735)	29837	0.50000	0.4606
	19 Ronnel	21.176	21.170	(0.738)	46165	0.50000	0.4758
	20 Malathion	22.441	22.430	(0.782)	31859	0.50000	0.4797
	21 Chlorpyrifos	22.595	22.586	(0.788)	39270	0.50000	0.4710
	22 Trichloronate	22.765	22.757	(0.794)	40109	0.50000	0.4625
	23 Parathion	22.820	22.810	(0.796)	39453	0.50000	0.4940
	24 Fenthion	22.888	22.881	(0.798)	56987	0.50000	0.5208
	25 Merphos-A (Merphos)	Compound Not Detected.					
	26 Anilazine	24.433	24.396	(0.852)	2028	0.50000	0.4297(M)
	27 Tetrachlorvinphos (stirophos)	25.839	25.828	(0.901)	22635	0.50000	0.4725
	28 Tokuthion	26.016	26.009	(0.907)	42802	0.50000	0.4579
	29 Merphos-B (Merphos oxone)	26.150	26.142	(0.912)	49545	0.50000	0.6037
	30 Carbophenothion methyl	26.984	26.976	(0.941)	31047	0.50000	0.4753
	31 Fensulfothion	27.224	27.214	(0.949)	26023	0.50000	0.4636
	32 Bolstar	27.330	27.326	(0.953)	40397	0.50000	0.4918
	33 Carbophenothion	27.445	27.440	(0.957)	32880	0.50000	0.4835

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.628	27.624	(0.963)	30107	0.50000	0.4700
$	35 Triphenyl phosphate	27.918	27.914	(0.973)	29573	0.50000	0.4840
	36 EPN	28.225	28.223	(0.984)	36289	0.50000	0.4815
	37 Phosmet	28.354	28.348	(0.988)	27887	0.50000	0.4295
*	38 TOCP	28.685	28.684	(1.000)	155539	2.00000	
	39 Azinphos-methyl	28.803	28.796	(1.004)	32051	0.50000	0.4351
	40 Azinphos-ethyl	29.113	29.106	(1.015)	39849	0.50000	0.4596
	41 Coumaphos	29.440	29.433	(1.026)	38014	0.50000	0.5065
M	42 Total Demeton				32782	0.50000	0.4884
M	43 Merphos				49545	0.50000	0.4819

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

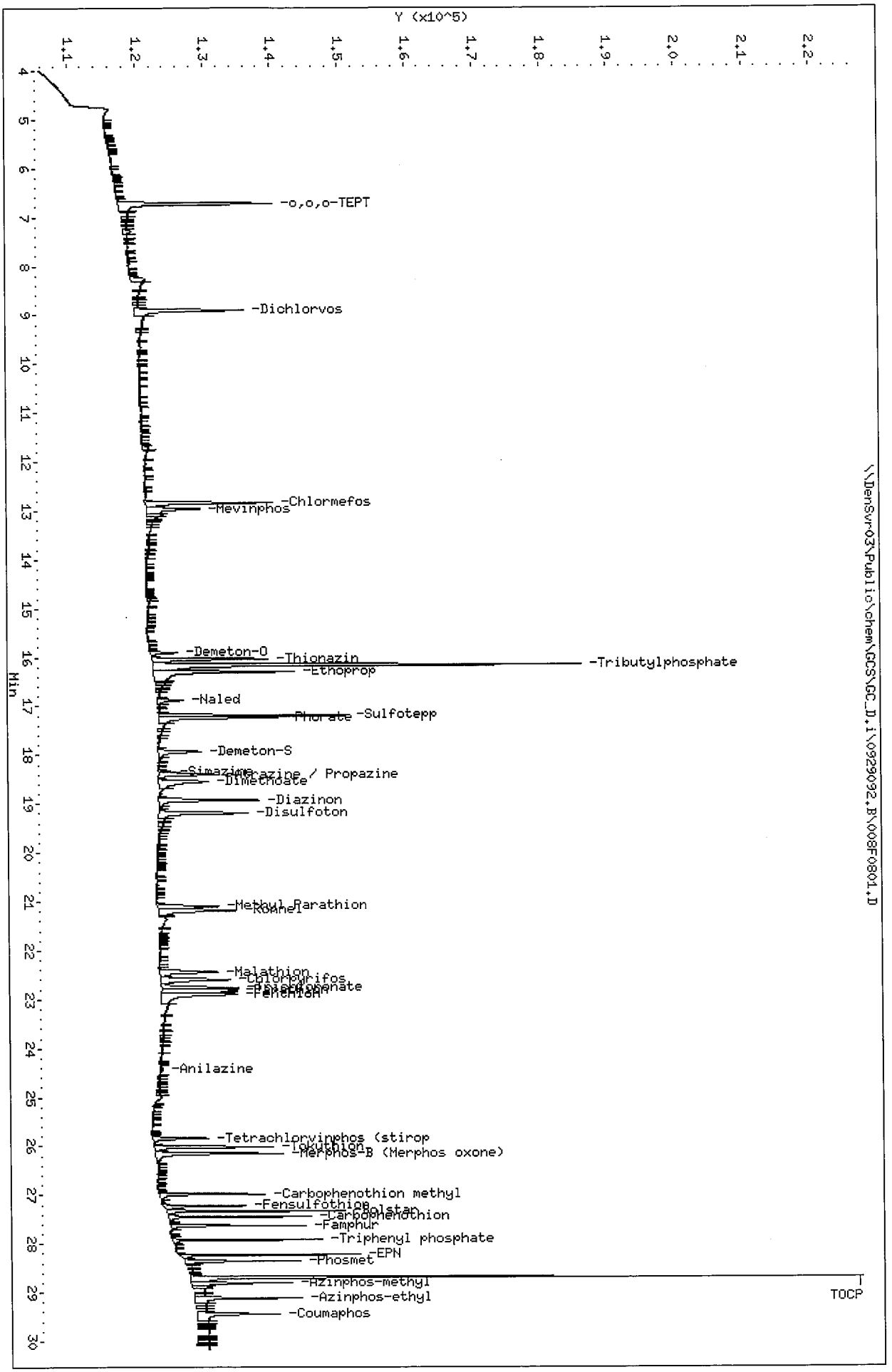
Instrument ID: GC_D.i
Lab File ID: 008F0801.D
Lab Smp Id: 8141 L2 GSV1082
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L2 GSV1082
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	180030	6.67
38 TOCP	129625	64813	259250	155539	19.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	0.03
38 TOCP	28.68	28.18	29.18	28.69	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.

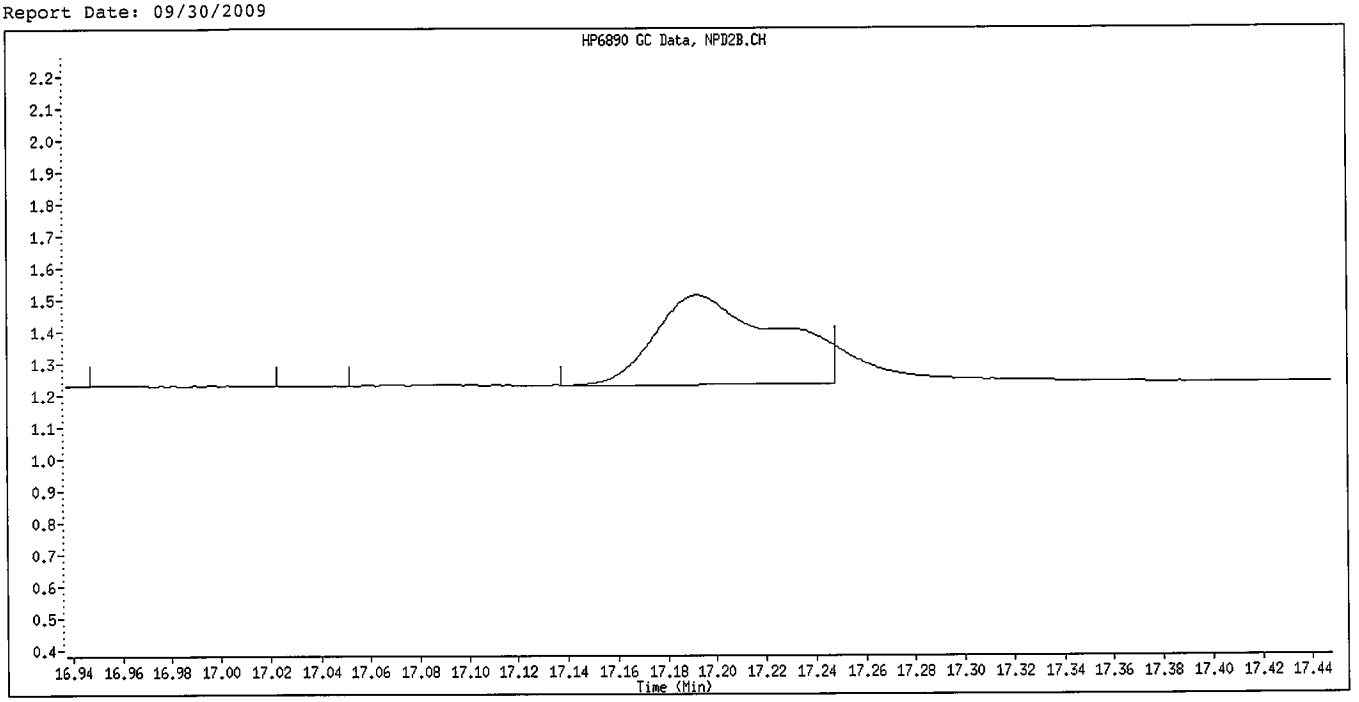


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Date : 29-SEP-2009 15:35
Client ID: 8141 L2 GSV1082
Sample Info: 8141 L2 GSV1082
Column phase: RTx-OPPest

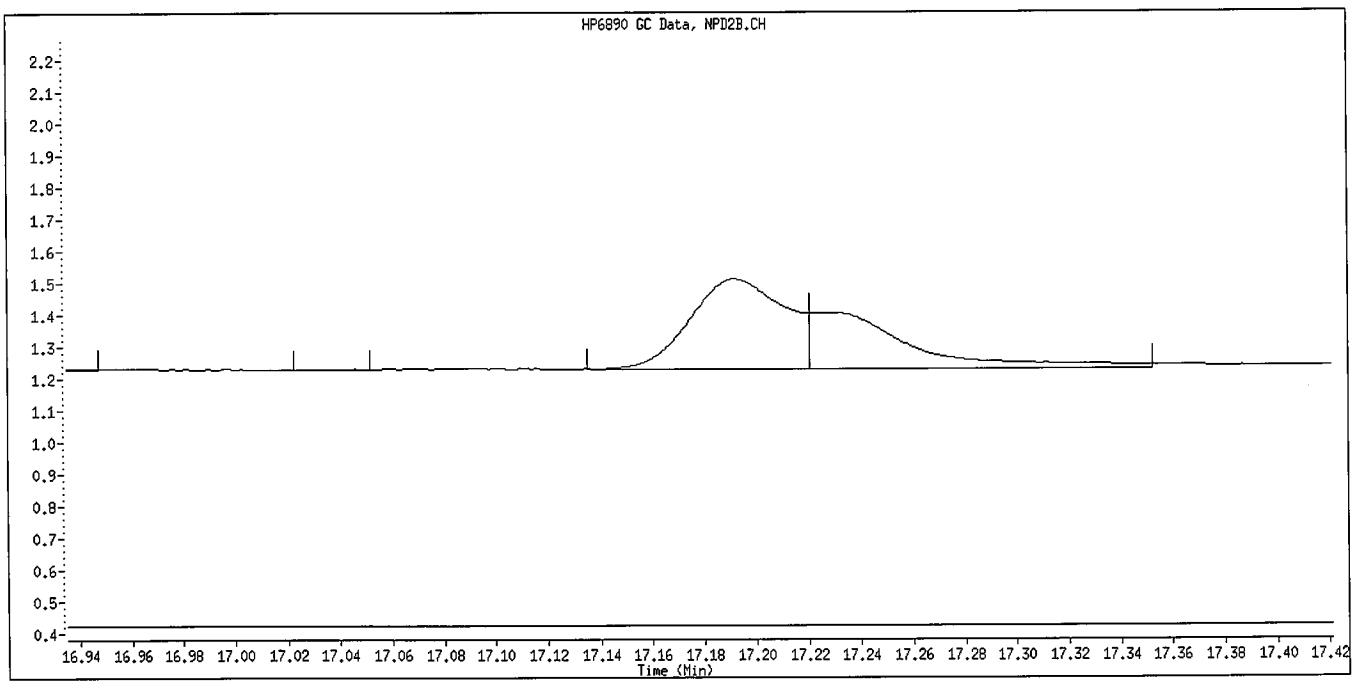
\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Sulfotepp
CAS #:
Report Date: 09/30/2009



Original Integration

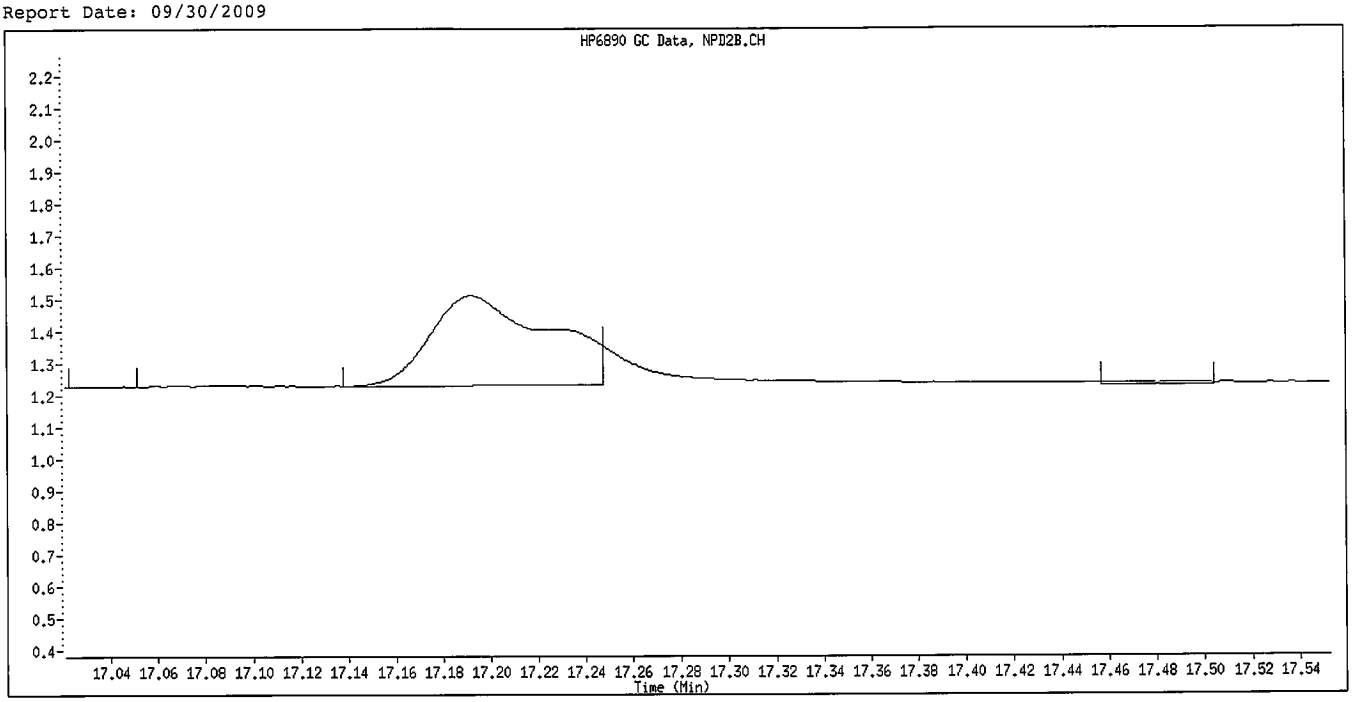


Manual Integration

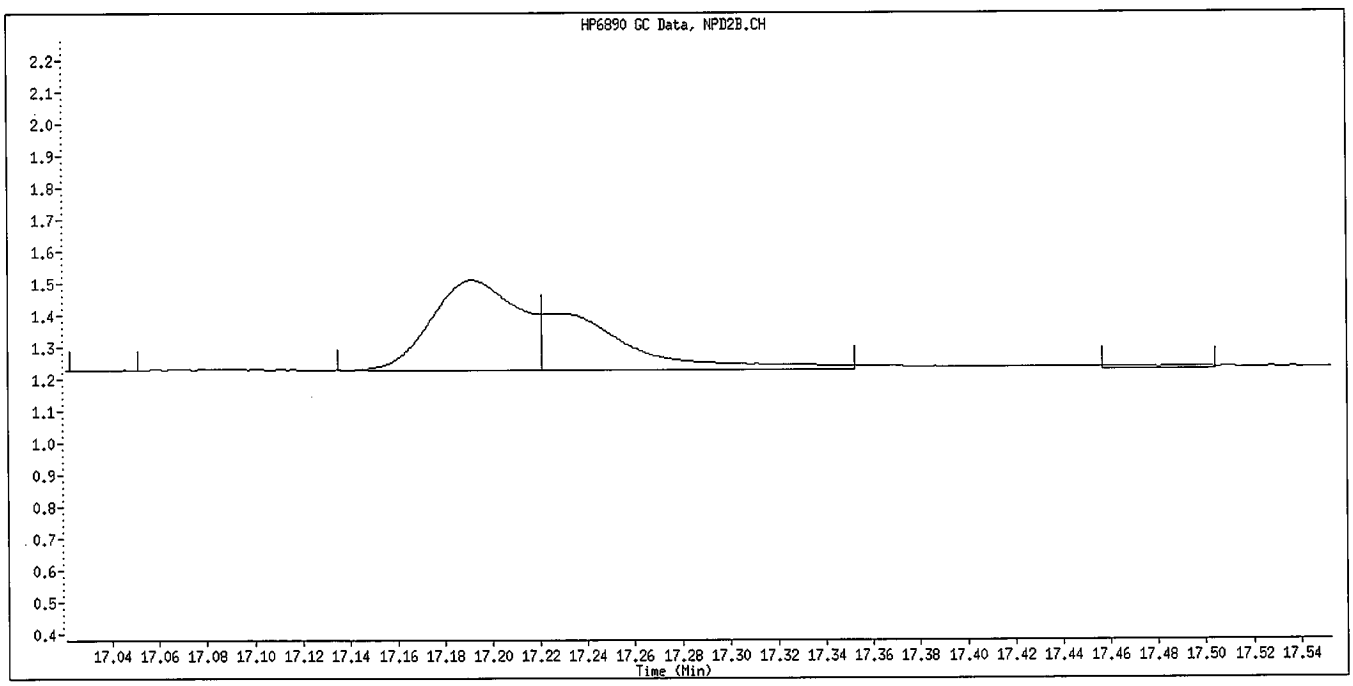
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration

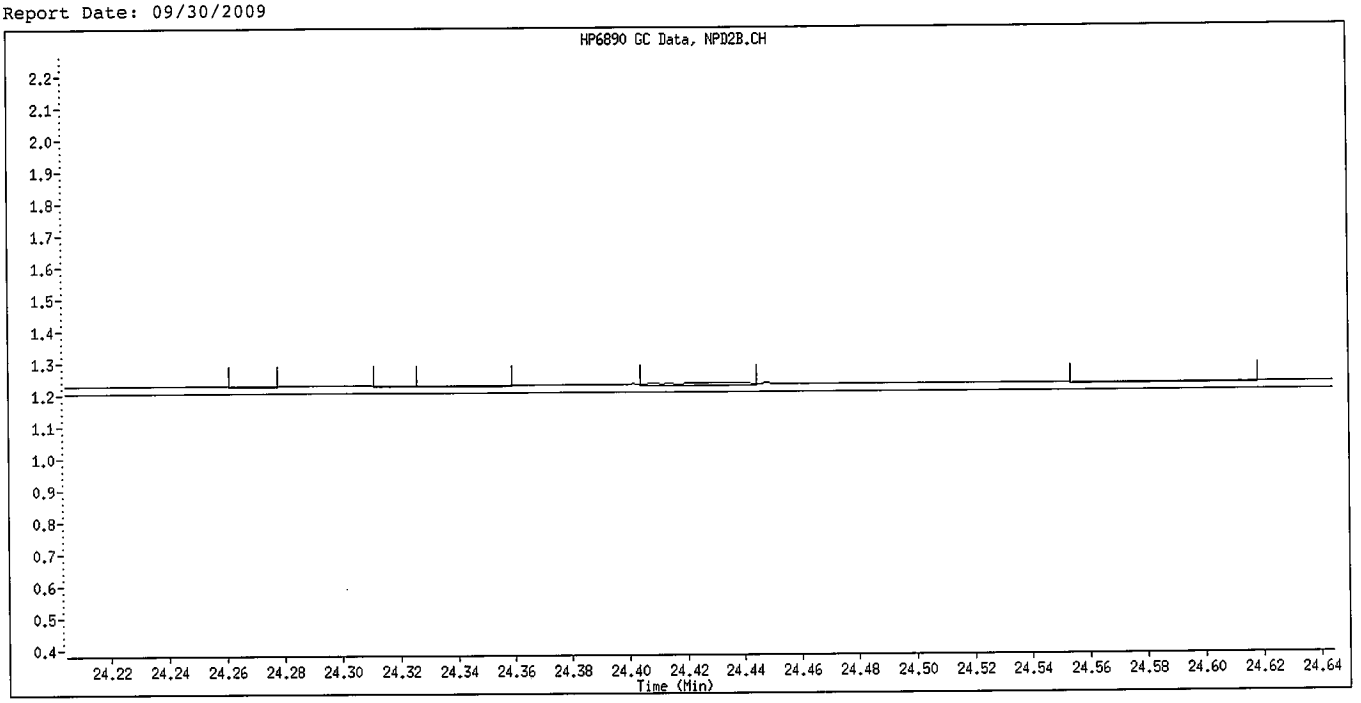


Manual Integration

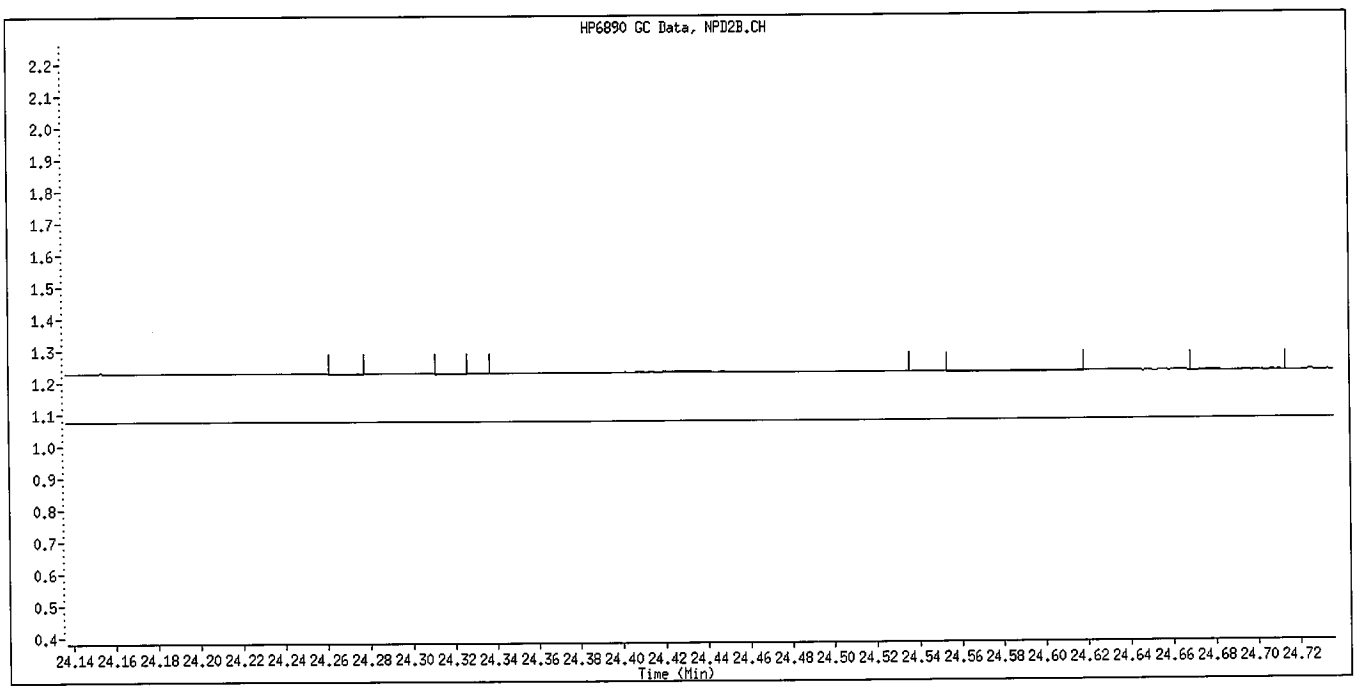
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

YL 9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Lab Smp Id: 8141 L1 GSV1083 Client Smp ID: 8141 L1 GSV1083
Inj Date : 29-SEP-2009 16:12
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L1 GSV1083
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 15:35 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.729	6.726	(0.417)	28392	0.20000	0.2041
	2 Dichlorvos	8.909	8.903	(0.552)	22631	0.20000	0.2285
$	3 Chlormefos	12.839	12.838	(0.795)	21044	0.20000	0.2221
	4 Mevinphos	12.965	12.953	(0.803)	10365	0.20000	0.1742
	5 Demeton-O	15.905	15.901	(0.985)	3629	0.06500	0.06163
	6 Thionazin	16.034	16.027	(0.993)	15395	0.20000	0.1797
*	7 Tributylphosphate	16.154	16.146	(1.000)	166089	2.00000	
	8 Ethoprop	16.298	16.290	(1.009)	42901	0.20000	0.1966
	9 Naled	16.885	16.873	(1.045)	7830	0.20000	0.3479
	10 Sulfotepp	17.194	17.189	(1.064)	28344	0.20000	0.04546(M)
	11 Phorate	17.219	17.225	(1.066)	27735	0.20000	0.2102(M)
	12 Demeton-S	17.943	17.914	(1.111)	7597	0.13600	0.1362
	13 Simazine	18.319	18.324	(1.134)	103	0.20000	0.3393
	14 Atrazine / Propazine	18.418	18.391	(1.140)	11556	0.40000	0.4081
	15 Dimethoate	18.574	18.518	(1.150)	7995	0.20000	0.2014
	16 Diazinon	18.927	18.919	(1.172)	16730	0.20000	0.2034
	17 Disulfoton	19.198	19.182	(1.188)	16960	0.20000	0.2033
	18 Methyl Parathion	21.110	21.081	(0.736)	8492	0.20000	0.2048
	19 Ronnel	21.186	21.170	(0.739)	18613	0.20000	0.1955
	20 Malathion	22.447	22.430	(0.783)	11736	0.20000	0.2014
	21 Chlorpyrifos	22.604	22.586	(0.788)	14294	0.20000	0.2039
	22 Trichloronate	22.781	22.757	(0.794)	14331	0.20000	0.2057
	23 Parathion	22.833	22.810	(0.796)	12594	0.20000	0.1994
	24 Fenthion	22.896	22.881	(0.798)	20759	0.20000	0.1934
	25 Merphos-A (Merphos)	23.394	23.412	(0.816)	431	0.20000	0.7612
	26 Anilazine	24.401	24.396	(0.851)	550	0.20000	0.2276
	27 Tetrachlorvinphos (stirophos)	25.845	25.828	(0.901)	8356	0.20000	0.2414
	28 Tokuthion	26.021	26.009	(0.907)	16596	0.20000	0.1810
	29 Merphos-B (Merphos oxone)	26.154	26.142	(0.912)	18717	0.20000	0.2325
	30 Carbophenothion methyl	26.986	26.976	(0.941)	11420	0.20000	0.2026
	31 Fensulfothion	27.230	27.214	(0.949)	9459	0.20000	0.2029
	32 Bolstar	27.333	27.326	(0.953)	15694	0.20000	0.1947
	33 Carbophenothion	27.446	27.440	(0.957)	12072	0.20000	0.2000

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.630	27.624	(0.963)	10333	0.20000	0.2025
$	35 Triphenyl phosphate	27.919	27.914	(0.973)	11466	0.20000	0.1913
	36 EPN	28.227	28.223	(0.984)	14715	0.20000	0.1990
	37 Phosmet	28.357	28.348	(0.989)	13126	0.20000	0.2060
*	38 TOCP	28.686	28.684	(1.000)	152602	2.00000	
	39 Azinphos-methyl	28.807	28.796	(1.004)	18426	0.20000	0.2082
	40 Azinphos-ethyl	29.116	29.106	(1.015)	24380	0.20000	0.2050
	41 Coumaphos	29.443	29.433	(1.026)	20151	0.20000	0.1978
M	42 Total Demeton				11226	0.20000	0.1978
M	43 Merphos				19148	0.20000	0.2012

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

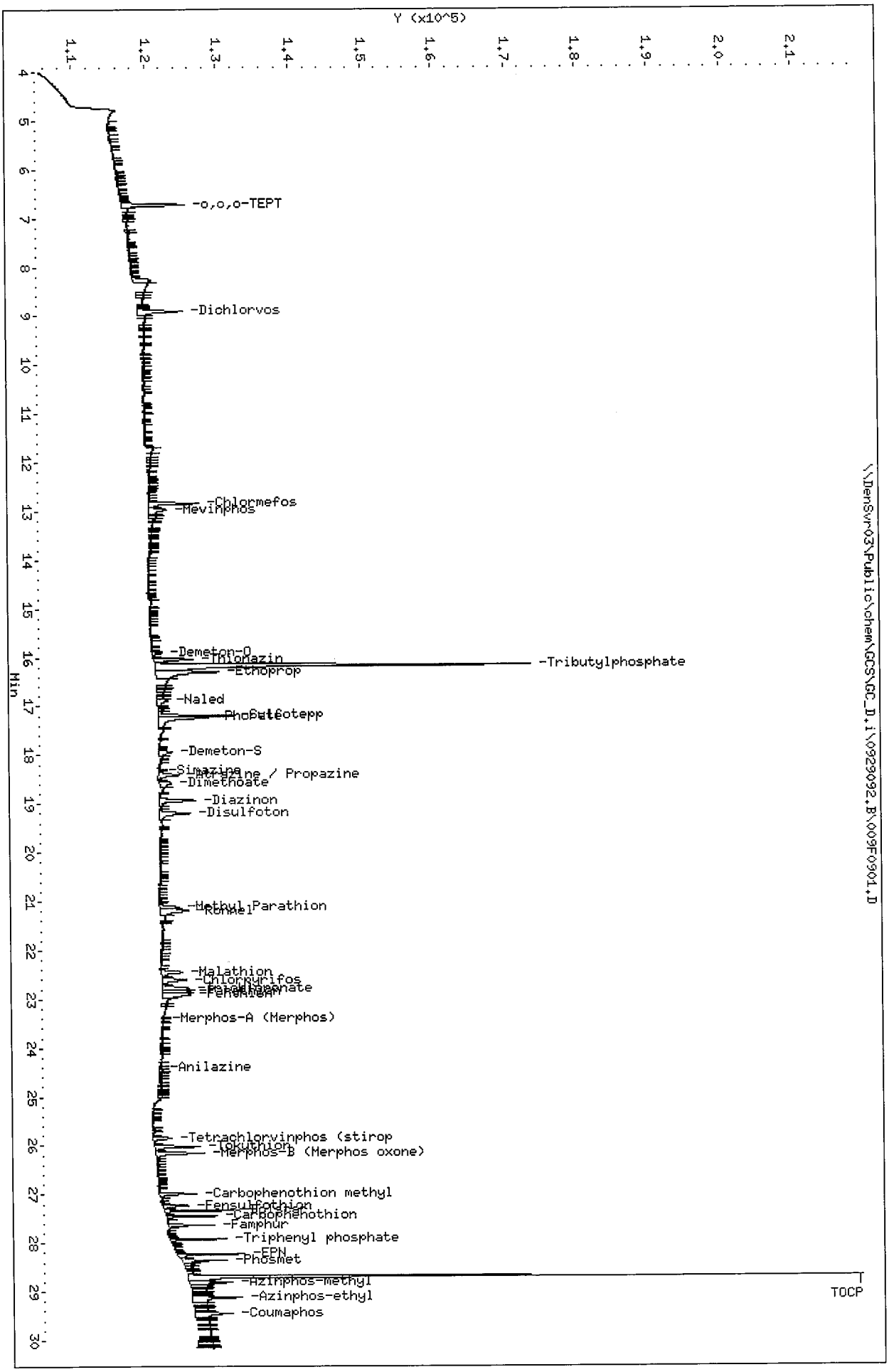
Instrument ID: GC_D.i
Lab File ID: 009F0901.D
Lab Smp Id: 8141 L1 GSV1083
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L1 GSV1083
Level:
Sample Type:

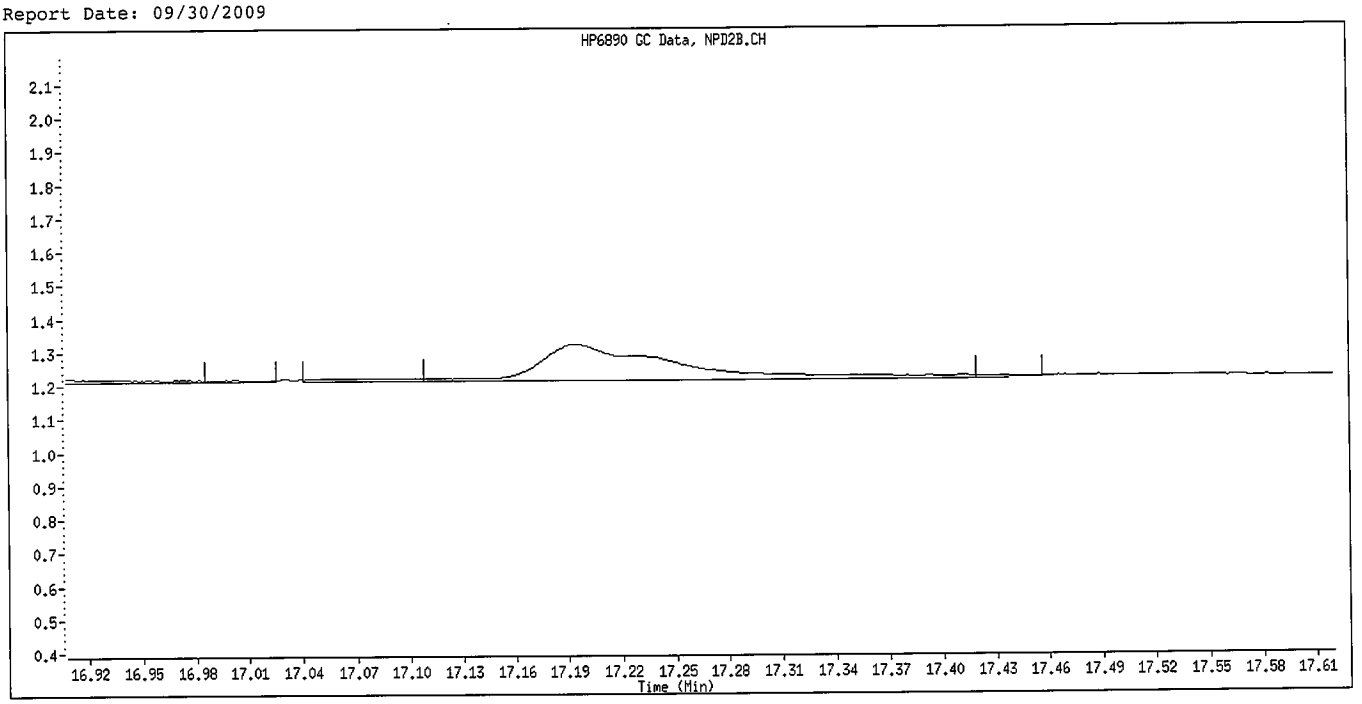
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	166089	-1.59
38 TOCP	129625	64813	259250	152602	17.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	0.04
38 TOCP	28.68	28.18	29.18	28.69	0.01

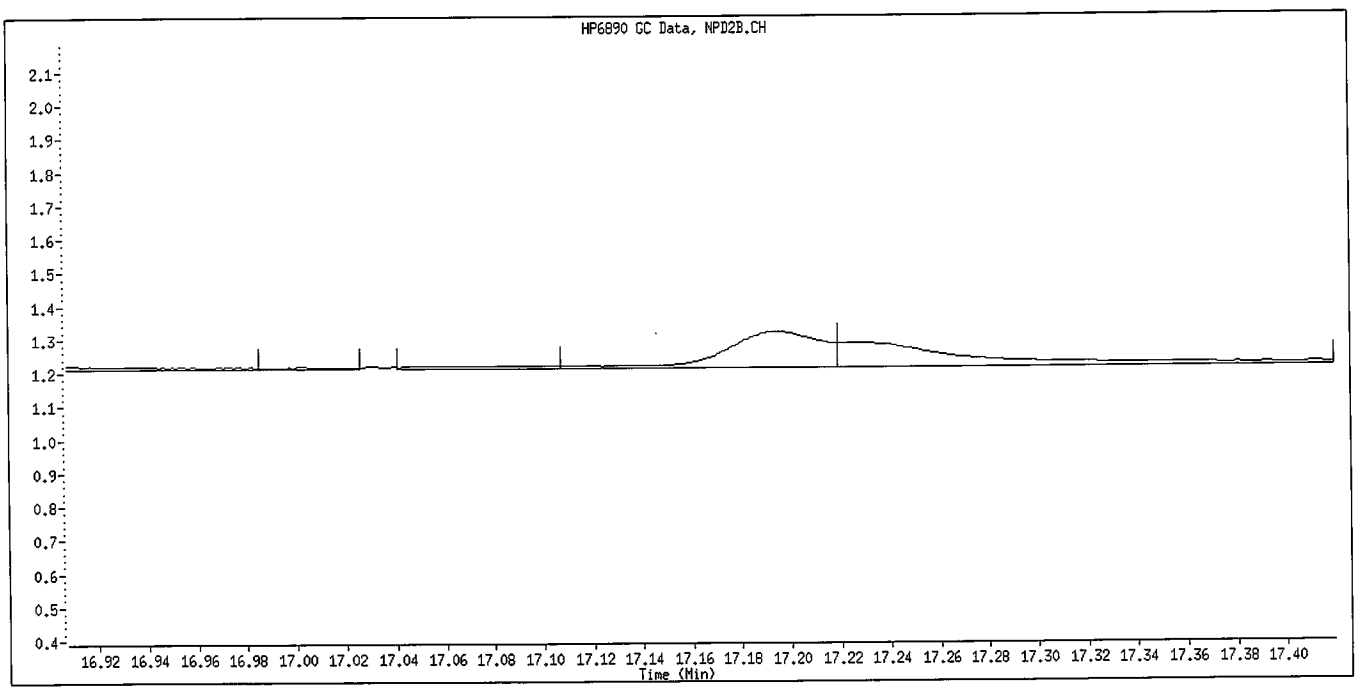
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\009F0901,D
Date : 29-SEP-2009 16:12
Client ID: 8141 L1 GSV1083
Sample Info: 8141 L1 GSV1083
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0,32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\009F0901,D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Tributylphosphate
-Naled
-Demeton-S
-Dimethoate
-Diazinon
-Disulfoton
-Malathion
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Carbophenothion
-Famphur
-Triphenyl phosphate
-EPN
-Phosmet
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos
TOCP
Page 4

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Sulfotepp
CAS #:
Report Date: 09/30/2009



Original Integration

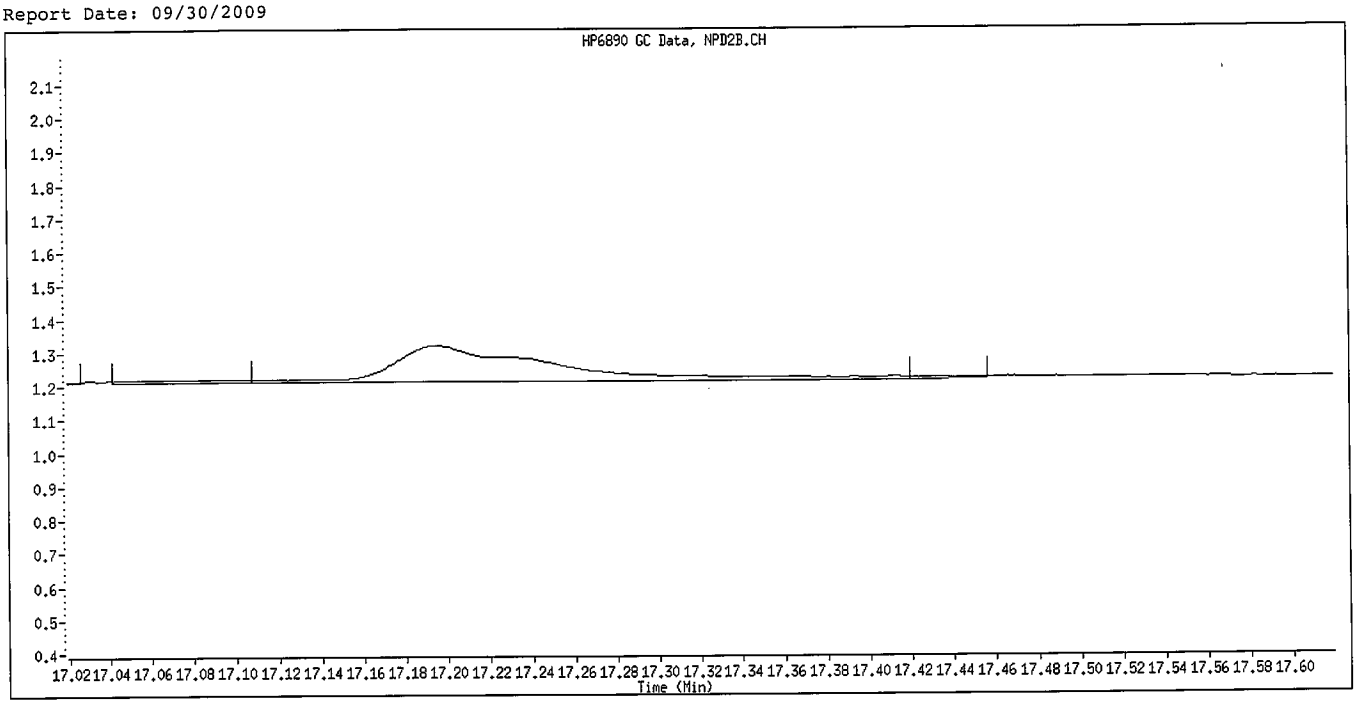


Manual Integration

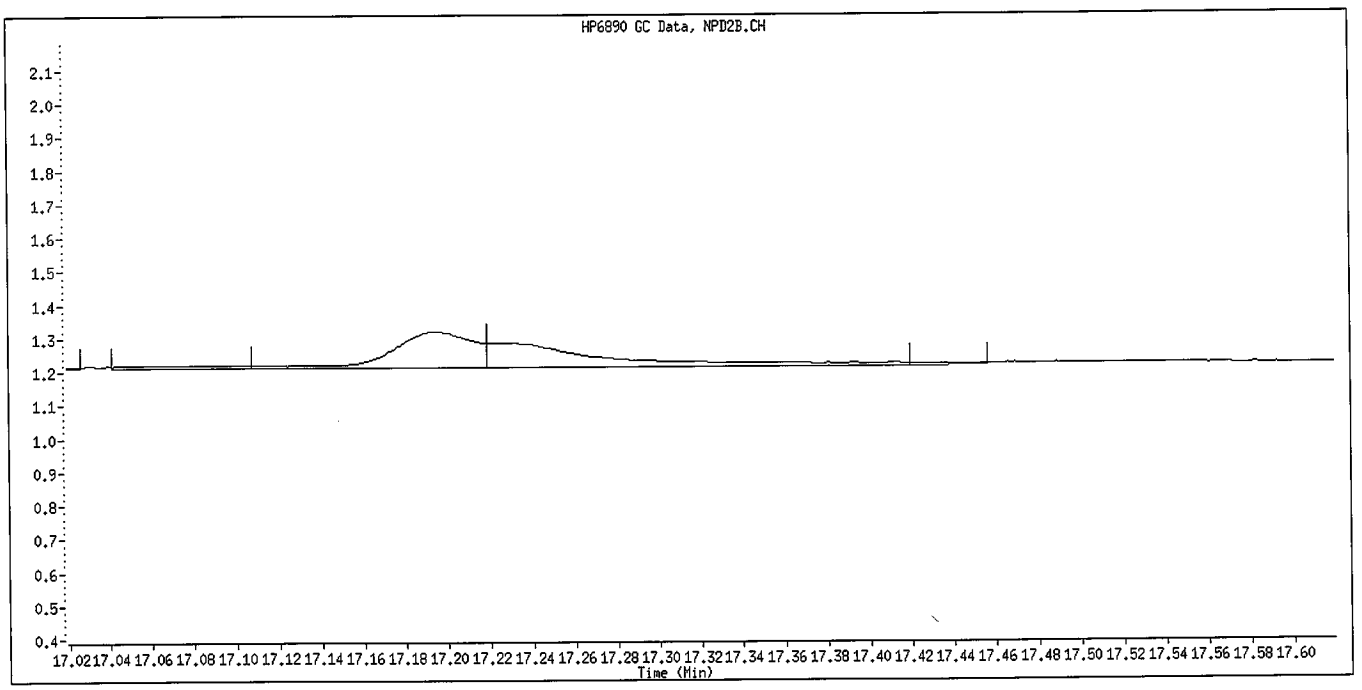
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\010F1001.D
Lab Smp Id: 8141 SS GSV1107 Client Smp ID: 8141 SS GSV1107
Inj Date : 29-SEP-2009 16:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 SS GSV1107
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:51 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.727	6.726	(0.417)	290395	2.00000	2.054
	2 Dichlorvos	8.904	8.903	(0.551)	182949	2.00000	1.818
$	3 Chlormefos	12.838	12.838	(0.795)	191110	2.00000	1.985
	4 Mevinphos	12.955	12.953	(0.802)	94676	2.00000	1.566
	5 Demeton-O	15.902	15.901	(0.985)	121900	0.65000	2.037
	6 Thionazin	16.028	16.027	(0.993)	178473	2.00000	2.050
*	7 Tributylphosphate	16.148	16.146	(1.000)	168771	2.00000	
	8 Ethoprop	16.291	16.290	(1.009)	197083	2.00000	1.857
	9 Naled	16.875	16.873	(1.045)	52510	2.00000	1.711
	10 Sulfotepp	17.190	17.189	(1.065)	212176	2.00000	1.746(M)
	11 Phorate	17.226	17.225	(1.067)	148292	2.00000	1.821(M)
	12 Demeton-S	17.922	17.914	(1.110)	4747	1.36000	0.09365
	13 Simazine	18.327	18.324	(1.135)	33861	2.00000	2.221
	14 Atrazine / Propazine	18.391	18.391	(1.139)	115761	4.00000	3.609
	15 Dimethoate	18.523	18.518	(1.147)	168267	2.00000	1.911
	16 Diazinon	18.921	18.919	(1.172)	144694	2.00000	1.731
	17 Disulfoton	19.183	19.182	(1.188)	160206	2.00000	1.890
	18 Methyl Parathion	21.083	21.081	(0.735)	123385	2.00000	1.888
	19 Ronnel	21.168	21.170	(0.738)	162555	2.00000	2.010
	20 Malathion	22.432	22.430	(0.782)	99352	2.00000	1.702
	21 Chlorpyrifos	22.586	22.586	(0.787)	140613	2.00000	1.871
	22 Trichloronate	22.760	22.757	(0.793)	137983	2.00000	1.726
	23 Parathion	22.812	22.810	(0.795)	143683	2.00000	1.966
	24 Fenthion	22.881	22.881	(0.798)	173970	2.00000	1.908
	25 Merphos-A (Merphos)	23.411	23.412	(0.816)	18424	2.00000	1.190
	26 Anilazine	24.410	24.396	(0.851)	6094	2.00000	1.157(M)
	27 Tetrachlorvinphos (stirophos)	25.831	25.828	(0.901)	83138	2.00000	1.704
	28 Tokuthion	26.012	26.009	(0.907)	149222	2.00000	1.916
	29 Merphos-B (Merphos oxone)	26.143	26.142	(0.911)	141233	2.00000	2.065
	30 Carbophenothion methyl	26.977	26.976	(0.941)	72868	2.00000	1.268
	31 Fensulfothion	27.215	27.214	(0.949)	99452	2.00000	1.949
	32 Bolstar	27.326	27.326	(0.953)	138340	2.00000	2.021
	33 Carbophenothion	27.440	27.440	(0.957)	117933	2.00000	1.980

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.624	27.624	(0.963)	117070	2.00000	1.978
$	35 Triphenyl phosphate	27.914	27.914	(0.973)	106386	2.00000	2.089
	36 EPN	28.222	28.223	(0.984)	127684	2.00000	2.033
	37 Phosmet	28.349	28.348	(0.988)	111795	2.00000	2.066
*	38 TOCP	28.683	28.684	(1.000)	129625	2.00000	
	39 Azinphos-methyl	28.797	28.796	(1.004)	92557	2.00000	1.786
	40 Azinphos-ethyl	29.107	29.106	(1.015)	107007	2.00000	1.963
	41 Coumaphos	29.433	29.433	(1.026)	98544	2.00000	1.924
M	42 Total Demeton				126647	2.00000	2.131
M	43 Merphos				159657	2.00000	1.809

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

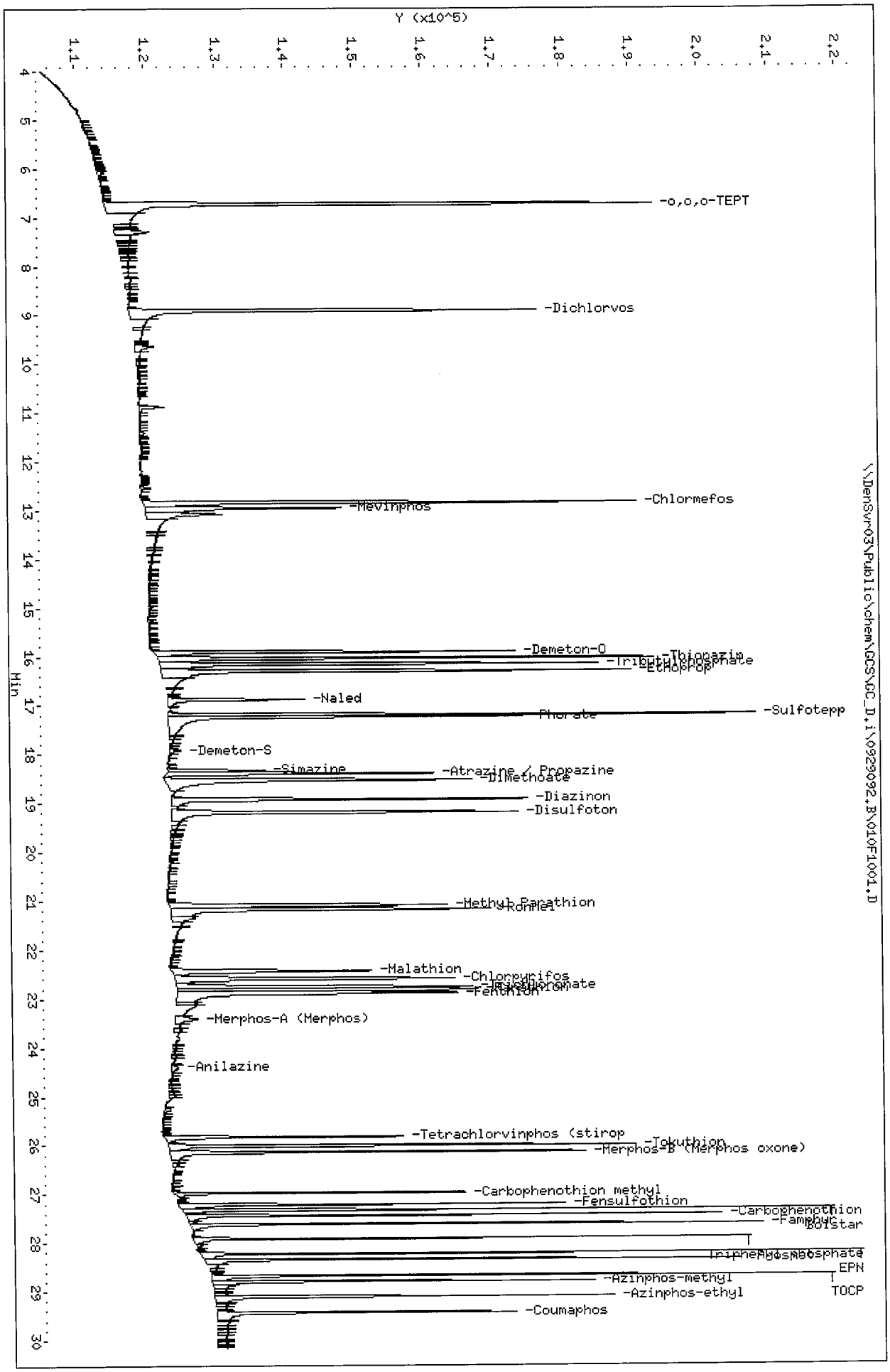
Instrument ID: GC_D.i
Lab File ID: 010F1001.D
Lab Smp Id: 8141 SS GSV1107
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 SS GSV1107
Level:
Sample Type:

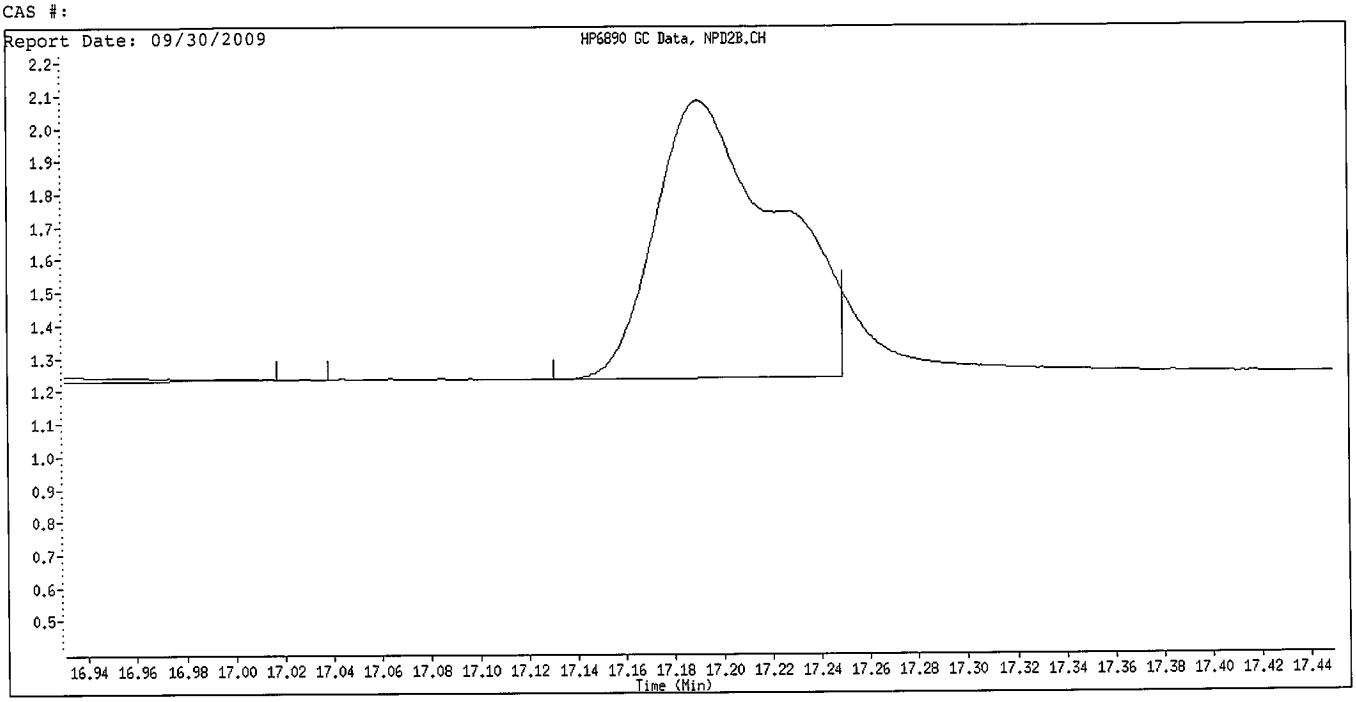
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	301065	150533	602130	168771	-43.94
38 TOCP	232028	116014	464056	129625	-44.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.05
38 TOCP	28.68	28.18	29.18	28.68	0.01

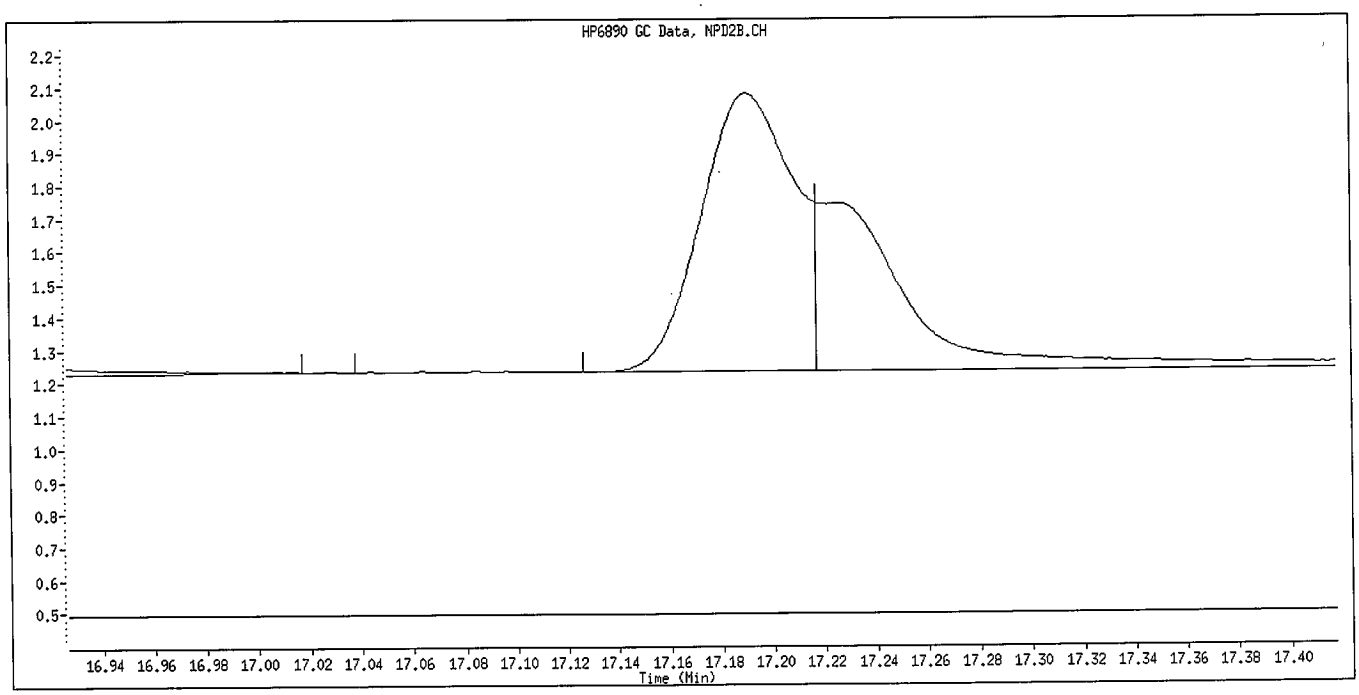
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\010F1001.D
Date : 29-SEP-2009 16:49
Client ID: 8141 SS GSV107
Sample Info: 8141 SS GSV107
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\010F1001.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Thionazin
-Tributylphosphate
-Ethoprop
-Naled
-Phorate
-Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Fenchlorphos
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Carbophenothion
-Famphur
-Triphenylphosphate
EPN
-Azinphos-methyl
TOCP
-Azinphos-ethyl
-Coumaphos

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Sulfotepp
CAS #:



Original Integration

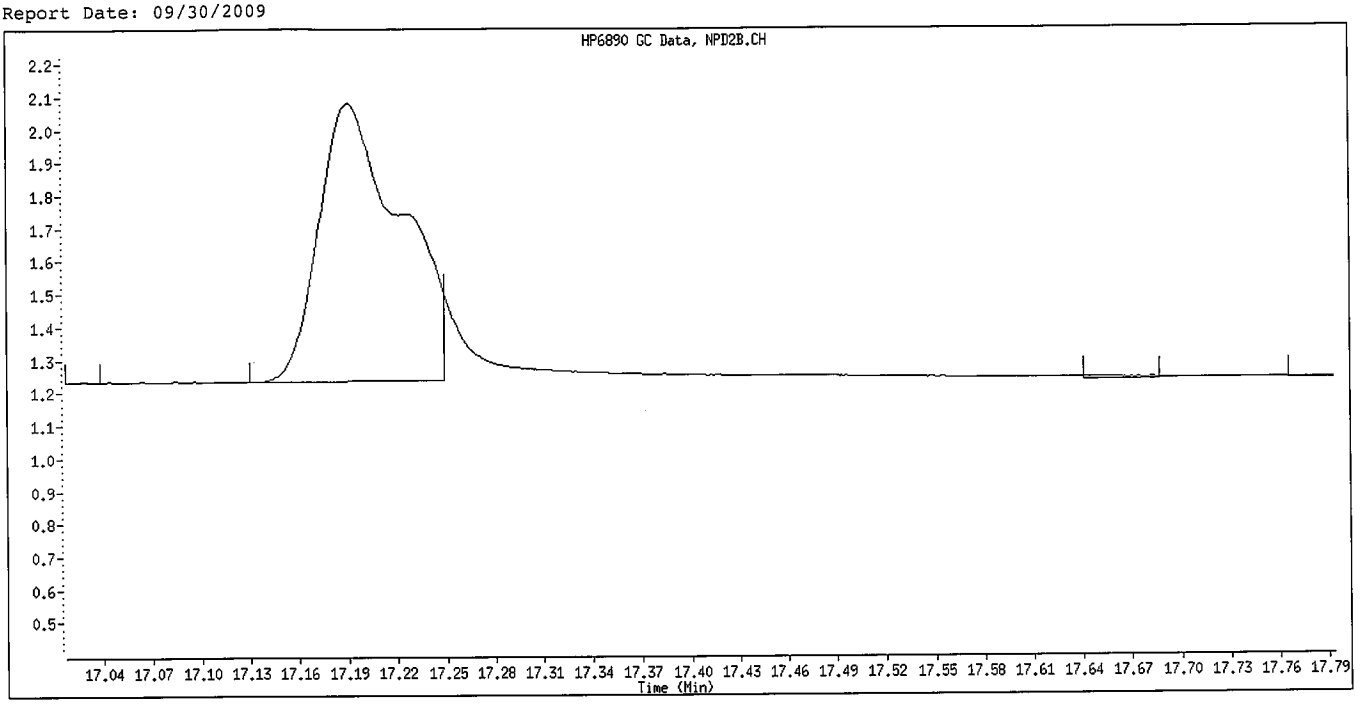


Manual Integration

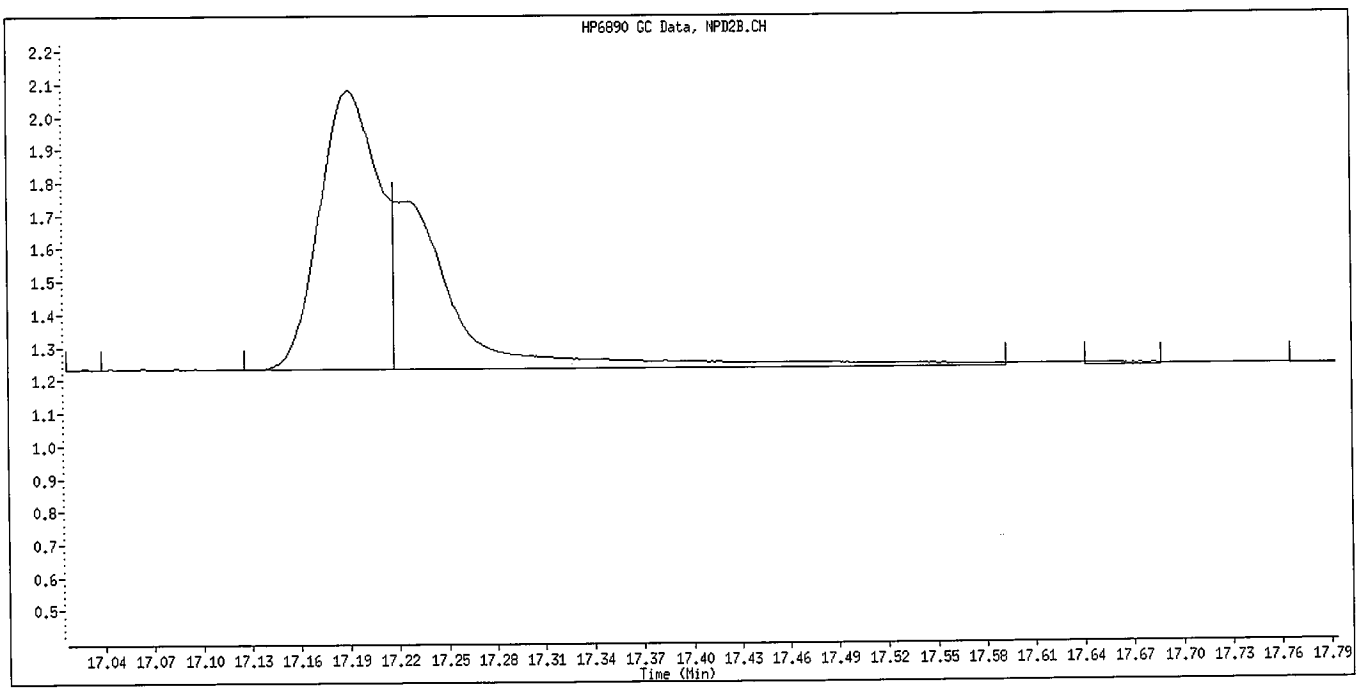
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration

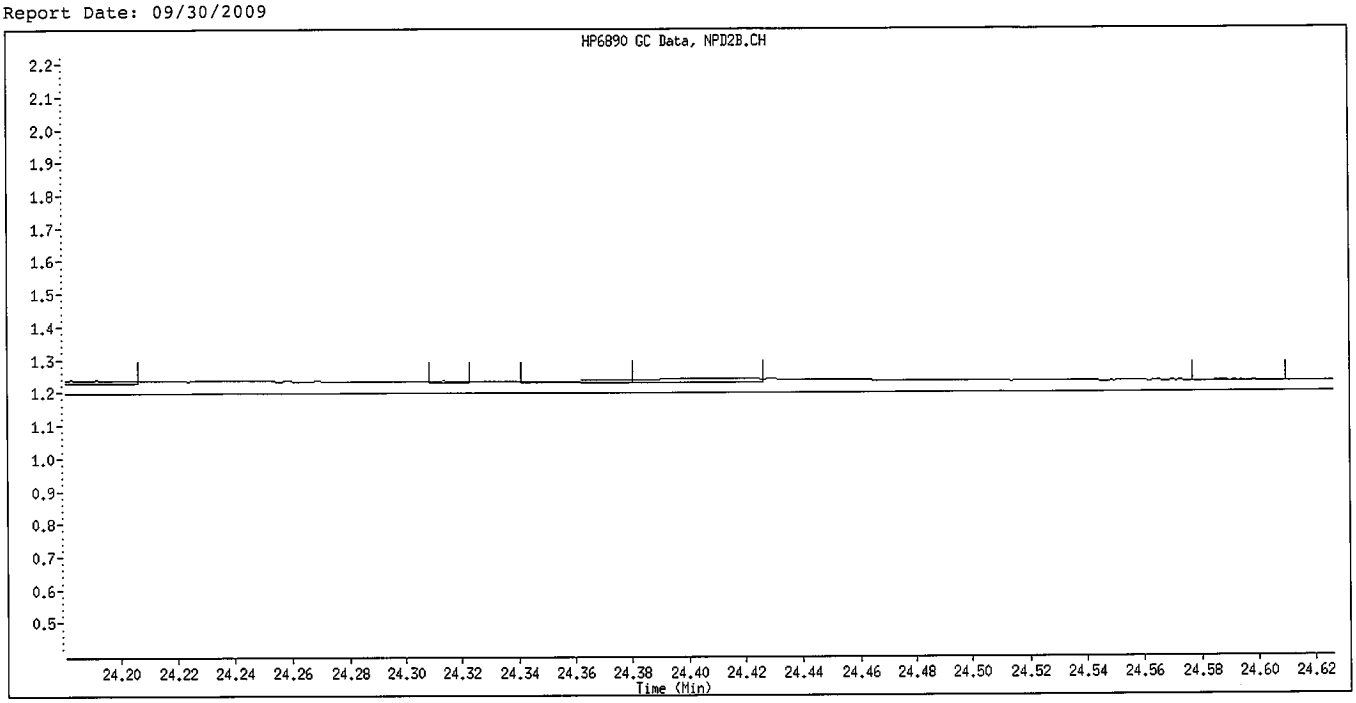


Manual Integration

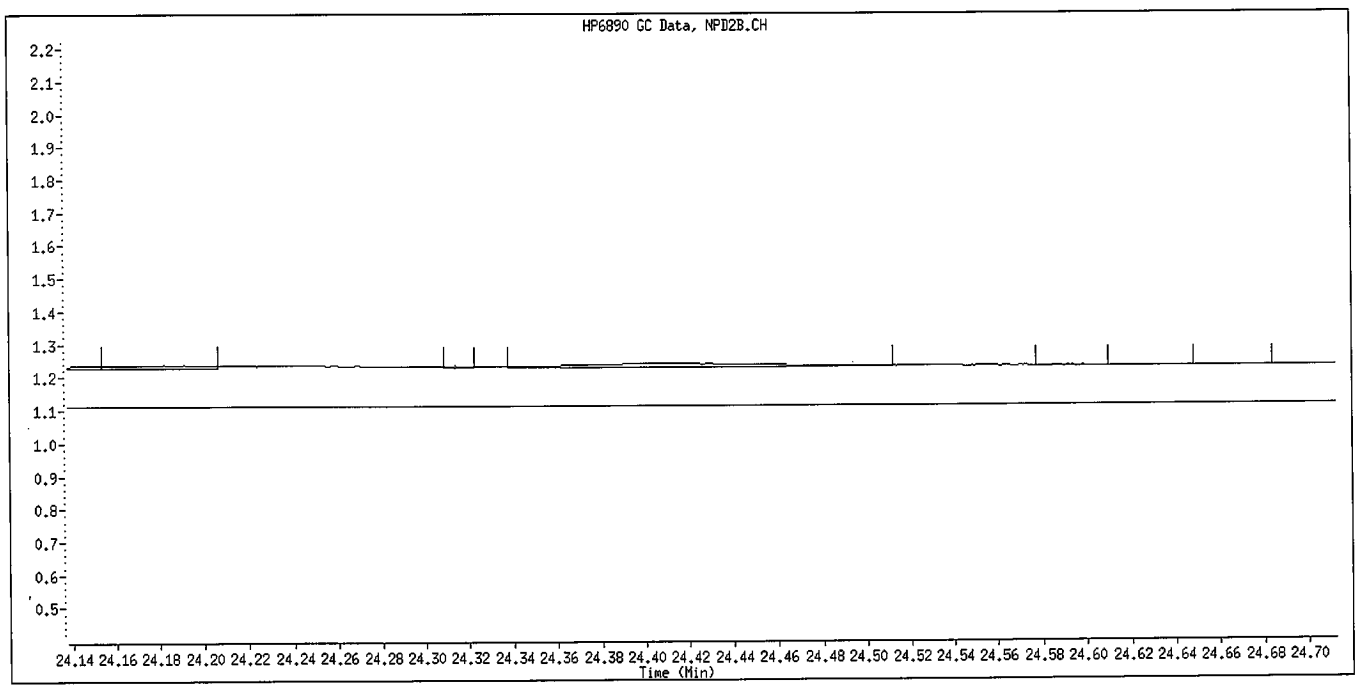
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Semivolatile GC

Supporting Documentation

Sample Sequence, Chromatograms

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9J010210

Client: Northgate

Method: 8141

Associated Samples: 1

Batch #(s): 9274555

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

Signature/Date: 10.12.09

GC SEMIVOLATILE ORGANIC EXTRACTION LOG SHEETS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/02/09
Time: 23:27:56

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
—	—	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			Y	Y	Anomalies to Extraction Method

— Expanded Deliverable
— COC Completed
— Bench Sheet Copied
— Package Submitted to AnalyticalGrou
— Bench Sheet Copied per COC

Extractionist: 011821 Chad M. Lane

Concentrationist: 004507 Brittany Scoles

Reviewer/Date: SCOLESB / 10/02/09

****
* *
* QC BATCH: 9274555 *
* *
****

PREP DATE: 10/01/09 20:05
COMP DATE: 10/02/09 18:25

Compounds, Organophosphorus (8141A)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
10/07/09	10/13/09	D9J010204-001 **LLTKN-1-AA**	DR	09	P2	WATER	**1057mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	10/13/09	D9J010210-001 **LLTKX-1-AA**	DR	09	P2	WATER	**1053mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	0/00/00	D9J010000-555 **LLVJ0-1-AAB**		09	P2	WATER	**1000mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	0/00/00	D9J010000-555 **LLVJ0-1-ACC**		09	P2	WATER	**1000mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1012 9/14/09 1ML GSV1050 9/24/09
COMMENTS:															
10/07/09	0/00/00	D9J010000-555 **LLVJ0-1-ADL**	R	09	P2	WATER	**1000mL** 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV1012 9/14/09 1ML GSV1050 9/24/09
COMMENTS:															

DV-OP-0006/7 BAL:M27995 H20:ELGA NACL:H14611 MECL2:H35J11 S/S:CL-E W:DB
NA2SO4:H09600 TURBO-VAP C@40C PIP:CON-6 HEX:H25E29
SHARE QC:9274554

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: C:\HPCHEM\2\SEQUENCE\D100509.S

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 GSV1085					
4	Vial 4	GSV1114-09 LCS					
5	Vial 5	LLN4X1AA,MB					9272488
6	Vial 6	LLN4X1AC,LCS					
7	Vial 7	LLN4X1AD,LCSD					
8	Vial 8	LLE0E1AA,244-1					
9	Vial 9	LKXKM1AA,MB					9259504
10	Vial 10	LKXKM1AC,LCS					
11	Vial 11	LKXKM1AD,LCSD					
12	Vial 12	LKVW31A1,125-1					
13	Vial 13	LLQ6W1AA,MB					9273433
14	Vial 14	LLQ6W1AC,LCS					
15	Vial 15	LLG321AA,174-1					
16	Vial 16	LLG321AF,174-1S					
17	Vial 17	LLG321AG,174-1D					
18	Vial 18	8141 CCV GSV1085					
19	Vial 19	LLQPL1AA,MB					9273443
20	Vial 20	LLQ971AA,LCS					
21	Vial 21	LLFGF1AA,305-1					
22	Vial 22	LLFGF1AD,305-1S					
23	Vial 23	LLFGF1AE,305-1D					
24	Vial 24	LLFGK1AA,305-2					
25	Vial 25	LLQPN1AA,MB					9273461
26	Vial 26	LLRA31AA,LCS					
27	Vial 27	LLFGF1AC,305-1					
28	Vial 28	LLFGK1AC,305-2					
29	Vial 29	LLFGK1AD,305-2S					– RR, bad injection?
30	Vial 30	LLFGK1AE,305-2D					
31	Vial 31	LLFGK1AD,305-2S					
32	Vial 32	8141 CCV GSV1085					
33	Vial 33	LLVJF1AA,MB					9274554
34	Vial 34	LLVJF1AC,LCS					
35	Vial 35	LLVJF1AD,LCSD					
36	Vial 36	LLQRR1AA,236-1					
37	Vial 37	LLVJ01AA,MB					9274555
38	Vial 38	LLVJ01AC,LCS					
39	Vial 39	LLVJ01AD,LCSD					
40	Vial 40	LLTKN1AA,204-1					
41	Vial 41	LLTKX1AA,210-1					
42	Vial 42	LL01M1AA,MB					9277015
43	Vial 43	LL01M1AC,LCS					
44	Vial 44	LL01M1AD,LCSD					
45	Vial 45	LLXA51AE,256-1					
46	Vial 46	LLX1Q1AA,331-1					
47	Vial 47	LLX1V1AA,331-2					
48	Vial 48	LLX1W1AA,331-3					
49	Vial 49	LLX1X1AA,331-4					
50	Vial 50	LLX101AA,331-5					
51	Vial 51	8141 CCV GSV1085					
52	Vial 52	LLVJT1AA,MB					9274556
53	Vial 53	LLVJT1AC,LCS					
54	Vial 54	LLVJT1AD,LCSD					
55	Vial 55	LK9DD2AA,250-1					
56	Vial 56	LLNL31AA,202-1					
57	Vial 57	LLNL51AA,202-2					
58	Vial 58	LLNL61AA,202-3					
59	Vial 59	LLNL71AA,202-4					

Sequence: C:\HPCHEM\2\SEQUENCE\D100509.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	8141 CCV GSV1085				

Sequence Table (Back Injector):

No entries - empty table!

GC SEMIVOLATILE
CONTINUING CALIBRATION DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 o,o,o-TEPT	2.5000	2.3091	7.6	15.0	
2 Dichlorvos	2.5000	2.1896	12.4	15.0	
3 Mevinphos	2.5000	2.1803	12.8	15.0	
4 Chlormefos	2.5000	2.1809	12.8	15.0	
5 Thionazin	2.5000	2.2818	8.7	15.0	
6 Demeton-O	0.8125	0.8212	1.1	15.0	
7 Ethoprop	2.5000	2.4151	3.4	15.0	
8 Naled	2.5000	2.1971	12.1	15.0	
9 Sulfotepp	2.5000	2.2945	8.2	15.0	
10 Phorate	2.5000	2.4837	0.7	15.0	
11 Dimethoate	2.5000	2.2770	8.9	15.0	
12 Demeton-S	1.7000	1.6323	4.0	15.0	
13 Simazine	2.5000	2.3907	4.4	15.0	
14 Atrazine	2.5000	2.3174	7.3	15.0	
15 propazine	2.5000	2.2607	9.6	15.0	
17 Disulfoton	2.5000	2.3894	4.4	15.0	
16 Diazinon	2.5000	2.3977	4.1	15.0	
18 Methyl Parathion	2.5000	2.3054	7.8	15.0	
19 Ronnel	2.5000	2.1990	12.0	15.0	
20 Malathion	2.5000	2.6321	5.3	15.0	
21 Fenthion	2.5000	2.3311	6.8	15.0	
22 Parathion	2.5000	2.3221	7.1	15.0	
23 Chlorpyrifos	2.5000	2.2964	8.1	15.0	
24 Trichloronate	2.5000	2.2911	8.4	15.0	
25 Anilazine	2.5000	1.5327	38.7	15.0	<-
148 Merphos-A (Merphos)	2.5000	2.6681	6.7	999.0	
26 Tetrachlorvinphos (Stirophos)	2.5000	2.2213	11.1	15.0	
28 Tokuthion	2.5000	2.3960	4.2	15.0	
149 Merphos-B (Merphos Oxone)	2.5000	2.2814	8.7	999.0	
29 Carbophenothion-methyl	2.5000	2.3279	6.9	15.0	
29 Fensulfothion	2.5000	2.5396	1.6	15.0	
30 Bolstar / Famphur	5.0000	4.9866	0.3	15.0	
32 Carbophenothion	2.5000	2.3477	6.1	15.0	
31 Triphenyl phosphate	2.5000	2.3618	5.5	15.0	
34 Phosmet	2.5000	2.4522	1.9	15.0	
32 EPN	2.5000	2.5216	0.9	15.0	
33 Azinphos-methyl	2.5000	2.5110	0.4	15.0	
38 Azinphos-ethyl	2.5000	2.4146	3.4	15.0	
36 Coumaphos	2.5000	2.4022	3.9	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.4535	1.9	15.0
27 Merphos	2.5000	2.4801	0.8	15.0

Average %D = 6.85

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\032F3201.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 11:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:21 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 32 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.222	4.271	(0.309)	614859	2.50000	2.309
	2 Dichlorvos	5.803	5.824	(0.425)	418432	2.50000	2.190
	3 Mevinphos	9.344	9.342	(0.685)	190645	2.50000	2.180
$	4 Chlormefos	9.459	9.462	(0.693)	539785	2.50000	2.181
	5 Thionazin	12.583	12.576	(0.922)	438689	2.50000	2.282
	6 Demeton-O	12.835	12.830	(0.941)	137428	0.81250	0.8212
	7 Ethoprop	13.150	13.144	(0.964)	450303	2.50000	2.415
	8 Naled	13.430	13.425	(0.984)	138369	2.50000	2.197
*	9 Tributylphosphate	13.646	13.639	(1.000)	350865	2.00000	
	10 Sulfotepp	14.105	14.101	(1.034)	578378	2.50000	2.294
	11 Phorate	14.190	14.188	(1.040)	428277	2.50000	2.484
	12 Dimethoate	14.380	14.362	(1.054)	407824	2.50000	2.277
	13 Demeton-S	14.640	14.628	(1.073)	256514	1.70000	1.632
	14 Simazine	14.764	14.753	(1.082)	144129	2.50000	2.391
	15 Atrazine	14.975	14.969	(1.097)	171653	2.50000	2.317
	16 propazine	15.156	15.151	(1.111)	173330	2.50000	2.261
	17 Disulfoton	15.836	15.829	(0.585)	328995	2.50000	2.389
	18 Diazinon	15.900	15.896	(0.588)	455891	2.50000	2.398
	19 Methyl Parathion	16.810	16.799	(0.621)	313706	2.50000	2.305
	20 Ronnel	17.425	17.419	(0.644)	318998	2.50000	2.199
	21 Malathion	18.094	18.088	(0.669)	278715	2.50000	2.632
	22 Fenthion	18.255	18.245	(0.675)	312184	2.50000	2.331
	23 Parathion	18.366	18.355	(0.679)	286062	2.50000	2.322
	24 Chlorpyrifos	18.417	18.411	(0.681)	463318	2.50000	2.296
	25 Trichloronate	18.923	18.918	(0.699)	398576	2.50000	2.291
	26 Anilazine	19.354	19.324	(0.715)	10246	2.50000	1.533
	27 Merphos-A (Merphos)	19.765	19.757	(0.730)	107370	2.50000	2.668
	28 Tetrachlorvinphos (Stirophos)	20.488	20.478	(0.757)	222594	2.50000	2.221
	29 Tokuthion	21.241	21.233	(0.785)	366781	2.50000	2.396
	30 Merphos-B (Merphos Oxone)	21.492	21.484	(0.794)	268511	2.50000	2.281
	31 Carbophenothion-methyl	22.226	22.213	(0.821)	260279	2.50000	2.328
	32 Fensulfothion	22.416	22.390	(0.828)	312585	2.50000	2.540
	33 Bolstar / Famphur	23.583	23.573	(0.872)	632348	5.00000	4.986

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.907	23.898	(0.883)	304483	2.50000	2.348
$	35 Triphenyl phosphate	25.232	25.224	(0.932)	248758	2.50000	2.362(A)
	36 Phosmet	25.762	25.743	(0.952)	243466	2.50000	2.452
	37 EPN	26.081	26.074	(0.964)	320200	2.50000	2.522
	38 Azinphos-methyl	26.581	26.569	(0.982)	258807	2.50000	2.511
*	39 TOCP	27.060	27.056	(1.000)	227665	2.00000	
	40 Azinphos-ethyl	27.165	27.155	(1.004)	280457	2.50000	2.415
	41 Coumaphos	27.690	27.680	(1.023)	245256	2.50000	2.402
M	42 Total Demeton				393942	2.50000	2.454
M	43 Merphos				375881	2.50000	2.480

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

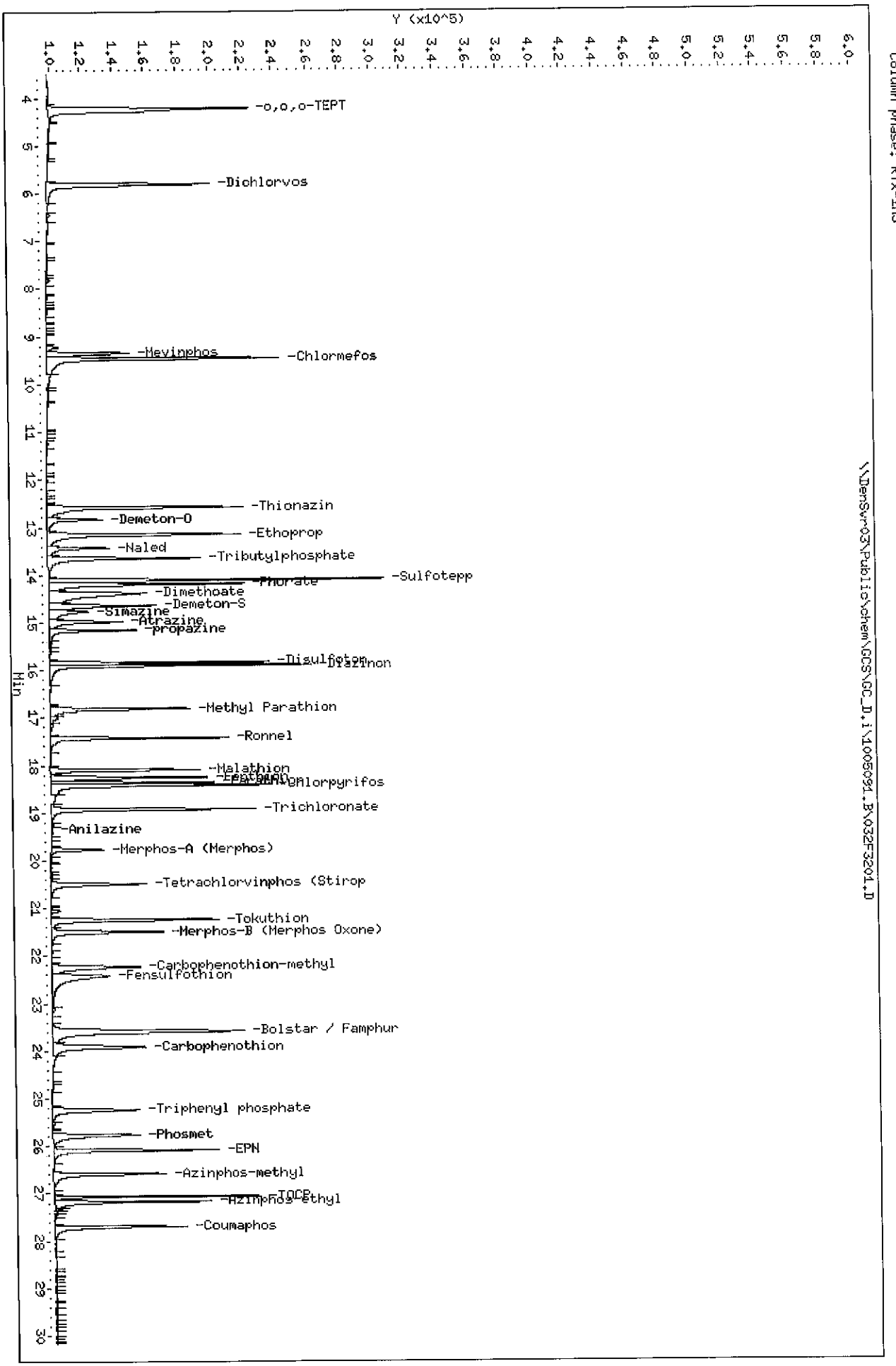
Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 23:21
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	290754	145377	581508	350865	20.67
39 TOCP	198800	99400	397600	227665	14.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.04
39 TOCP	27.06	26.56	27.56	27.06	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\GCS\GC_D.i\1005091.B\032F3201.D
Date : 06-OCT-2009 11:49
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-1MS

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.5000	2.5348	1.4	15.0	
2	Dichlorvos	2.5000	2.3710	5.2	15.0	
3	Chlormefos	2.5000	2.3297	6.8	15.0	
4	Mevinphos	2.5000	2.5889	3.6	15.0	
5	Demeton-O	0.8125	0.7797	4.0	15.0	
6	Thionazin	2.5000	2.4427	2.3	15.0	
7	Ethoprop	2.5000	2.1920	12.3	15.0	
10	Naled	2.5000	2.1626	13.5	15.0	
145	Sulfotepp	2.5000	2.4808	0.8	15.0	
8	Phorate	2.5000	2.4124	3.5	15.0	
15	Demeton-S	1.7000	1.5691	7.7	15.0	
10	Simazine	2.5000	2.0616	17.5	15.0	<-
13	Atrazine / Propazine	5.0000	4.5254	9.5	15.0	
16	Dimethoate	2.5000	2.3853	4.6	15.0	
11	Diazinon	2.5000	2.3952	4.2	15.0	
14	Disulfoton	2.5000	2.4544	1.8	15.0	
23	Methyl Parathion	2.5000	2.3407	6.4	15.0	
17	Ronnel	2.5000	2.3916	4.3	15.0	
24	Malathion	2.5000	2.4162	3.4	15.0	
18	Chlorpyrifos	2.5000	2.3054	7.8	15.0	
20	Trichloronate	2.5000	2.2651	9.4	15.0	
26	Parathion	2.5000	2.3586	5.7	15.0	
19	Fenthion	2.5000	2.3981	4.1	15.0	
151	Merphos-A (Merphos)	2.5000	2.2599	9.6	999.0	
21	Anilazine	2.5000	0.3259	87.0	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.5000	2.4125	3.5	15.0	
25	Tokuthion	2.5000	2.4106	3.6	15.0	
148	Merphos-B (Merphos oxone)	2.5000	2.2785	8.9	999.0	
28	Carbophenothion methyl	2.5000	2.4279	2.9	15.0	
30	Fensulfothion	2.5000	2.4677	1.3	15.0	
28	Bolstar	2.5000	2.4824	0.7	15.0	
30	Carbophenothion	2.5000	2.3773	4.9	15.0	
33	Famphur	2.5000	2.4308	2.8	15.0	
29	Triphenyl phosphate	2.5000	2.4082	3.7	15.0	
32	EPN	2.5000	2.4389	2.4	15.0	
34	Phosmet	2.5000	2.5624	2.5	15.0	
34	Azinphos-methyl	2.5000	2.5478	1.9	15.0	
35	Azinphos-ethyl	2.5000	2.4913	0.3	15.0	
36	Coumaphos	2.5000	2.3812	4.8	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/032F3201.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 11:49
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.3488	6.0	15.0
22 Merphos	2.5000	2.4773	0.9	15.0

Average %D = 7.01

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\032F3201.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 11:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:27 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 32 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.710	6.724	(0.416)	447369	2.50000	2.535
	2 Dichlorvos	8.896	8.899	(0.551)	297958	2.50000	2.371
$	3 Chlormefos	12.834	12.830	(0.795)	280019	2.50000	2.330
	4 Mevinphos	12.949	12.944	(0.802)	195427	2.50000	2.589
	5 Demeton-O	15.899	15.894	(0.985)	58250	0.81250	0.7797
	6 Thionazin	16.025	16.019	(0.993)	265552	2.50000	2.443
*	7 Tributylphosphate	16.144	16.139	(1.000)	210740	2.00000	
	8 Ethoprop	16.287	16.282	(1.009)	284706	2.50000	2.192
	9 Naled	16.873	16.866	(1.045)	83994	2.50000	2.162
	10 Sulfotepp	17.186	17.181	(1.065)	363795	2.50000	2.481(M)
	11 Phorate	17.221	17.219	(1.067)	240176	2.50000	2.412(M)
	12 Demeton-S	17.913	17.906	(1.110)	134641	1.70000	1.569
	13 Simazine	18.325	18.319	(1.135)	38708	2.50000	2.062
	14 Atrazine / Propazine	18.390	18.384	(1.139)	181732	5.00000	4.525
	15 Dimethoate	18.520	18.510	(1.147)	265565	2.50000	2.385
	16 Diazinon	18.915	18.910	(1.172)	249962	2.50000	2.395
	17 Disulfoton	19.180	19.173	(1.188)	259789	2.50000	2.454
	18 Methyl Parathion	21.080	21.074	(0.735)	199605	2.50000	2.341(A)
	19 Ronnel	21.165	21.160	(0.738)	249697	2.50000	2.392
	20 Malathion	22.427	22.420	(0.782)	183243	2.50000	2.416
	21 Chlorpyrifos	22.583	22.576	(0.787)	224796	2.50000	2.305
	22 Trichloronate	22.755	22.749	(0.793)	235778	2.50000	2.265
	23 Parathion	22.808	22.801	(0.795)	223724	2.50000	2.359
	24 Fenthion	22.875	22.869	(0.798)	282343	2.50000	2.398
	25 Merphos-A (Merphos)	23.411	23.403	(0.816)	81864	2.50000	2.260
	26 Anilazine	24.392	24.386	(0.850)	1371	2.50000	0.3259
	27 Tetrachlorvinphos (stirophos)	25.828	25.821	(0.901)	156800	2.50000	2.412
	28 Tokuthion	26.009	26.004	(0.907)	242467	2.50000	2.411
	29 Merphos-B (Merphos oxone)	26.141	26.137	(0.911)	201196	2.50000	2.278
	30 Carbophenothion methyl	26.976	26.973	(0.941)	182918	2.50000	2.428
	31 Fensulfothion	27.213	27.209	(0.949)	163485	2.50000	2.468
	32 Bolstar	27.324	27.322	(0.953)	219427	2.50000	2.482
	33 Carbophenothion	27.438	27.436	(0.957)	183313	2.50000	2.377

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.622	27.620	(0.963)	186800	2.50000	2.431
$	35 Triphenyl phosphate	27.913	27.912	(0.973)	158332	2.50000	2.408
	36 EPN	28.220	28.219	(0.984)	197790	2.50000	2.439
	37 Phosmet	28.347	28.345	(0.988)	179030	2.50000	2.562
*	38 TOCP	28.681	28.680	(1.000)	167368	2.00000	
	39 Azinphos-methyl	28.795	28.792	(1.004)	167472	2.50000	2.548
	40 Azinphos-ethyl	29.105	29.102	(1.015)	171674	2.50000	2.491
	41 Coumaphos	29.430	29.428	(1.026)	155106	2.50000	2.381
M	42 Total Demeton				192891	2.50000	2.349
M	43 Merphos				283060	2.50000	2.477(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

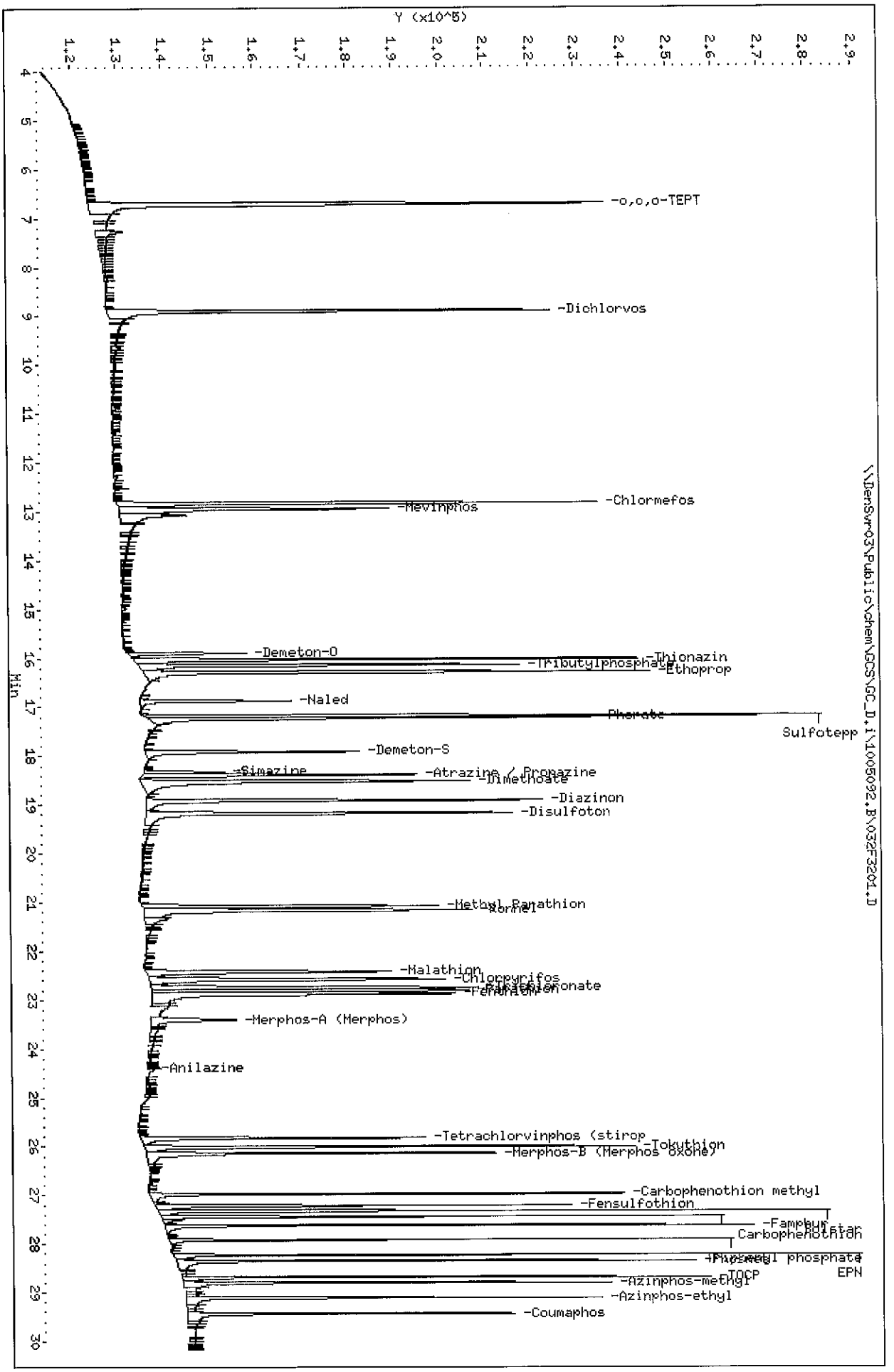
Instrument ID: GC_D.i
Lab File ID: 032F3201.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 23:21
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

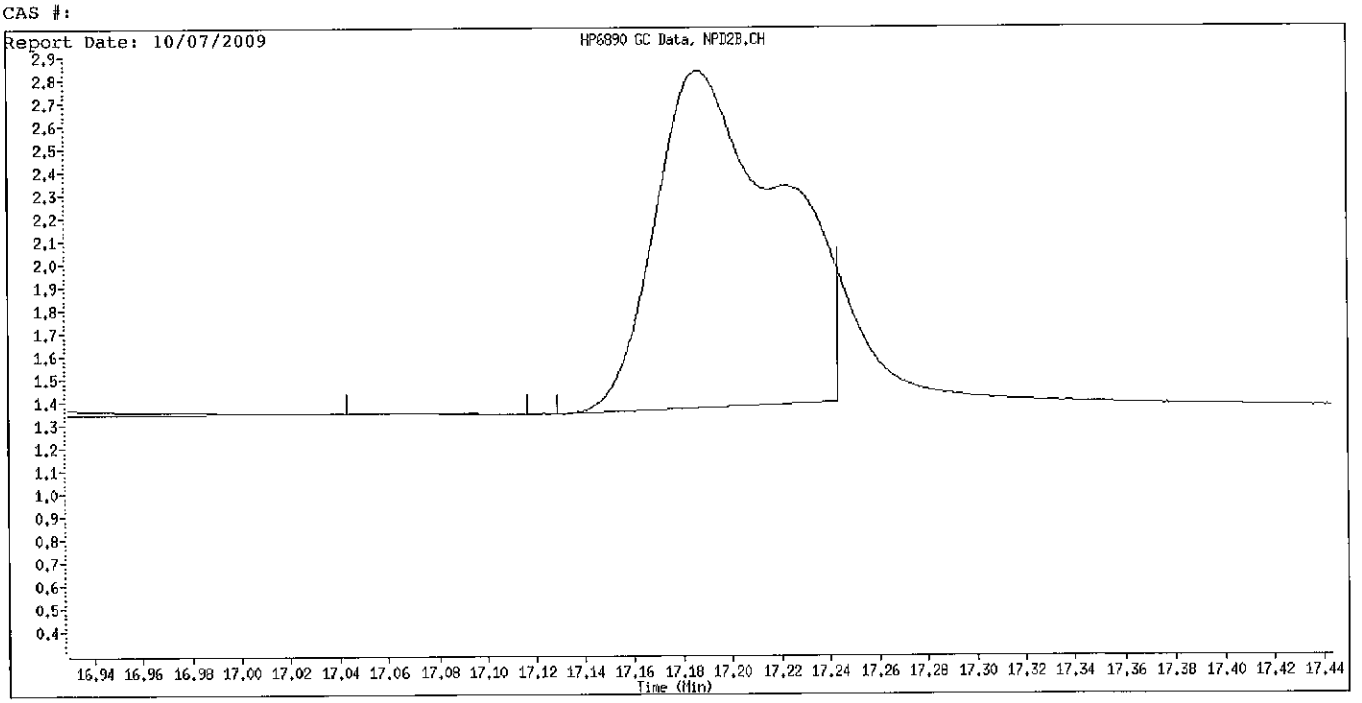
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	204831	102416	409662	210740	2.88
38 TOCP	153886	76943	307772	167368	8.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.14	0.02
38 TOCP	28.68	28.18	29.18	28.68	0.00

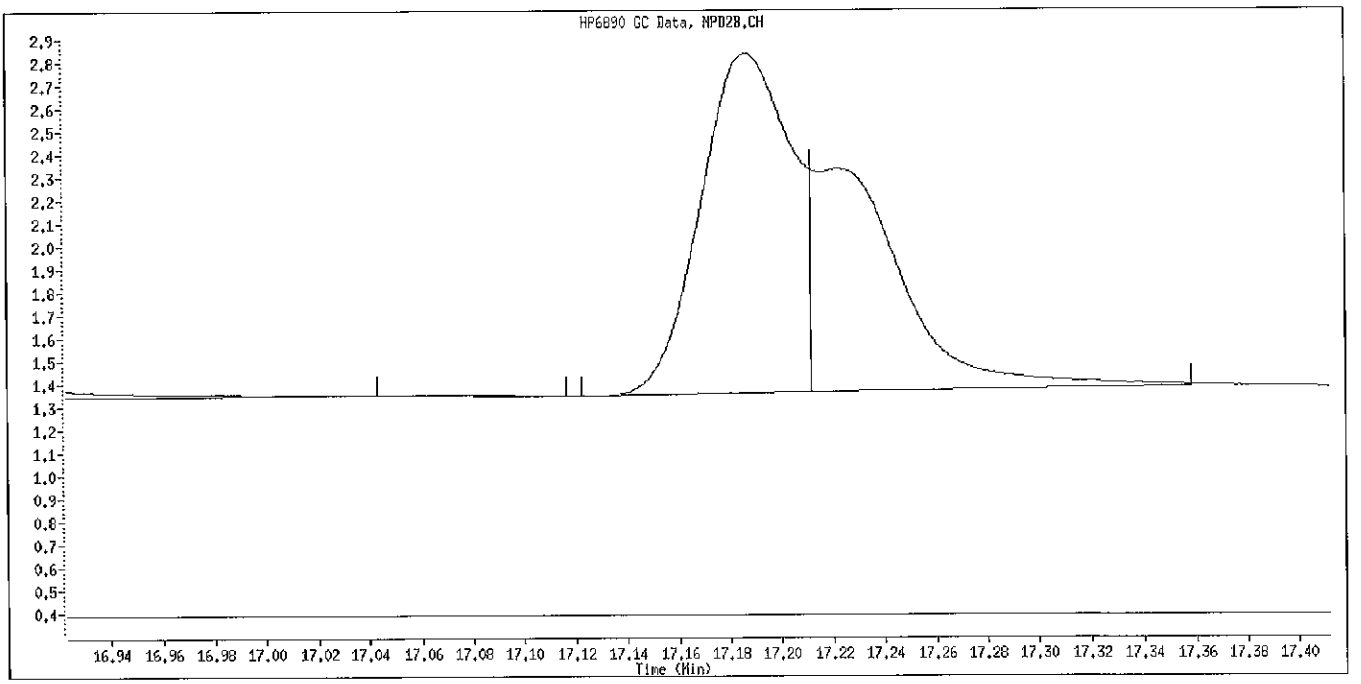
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\032F3201.D
Date : 06-OCT-2009 11:49
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-OPPest
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\032F3201.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Chlormefos
-Mevinphos
-Demeton-O
-Thionazin
-Tributylphosphate
-Ethoprop
-Naled
-Phorate
-Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos
TOCP
EPN
Page 4

Data File Name: 032P3201.D
Inj. Date and Time: 06-OCT-2009 11:49
Instrument ID: GC_D.i
Client ID: 8141 CCV GSV1085
Compound Name: Sulfotepp
CAS #:



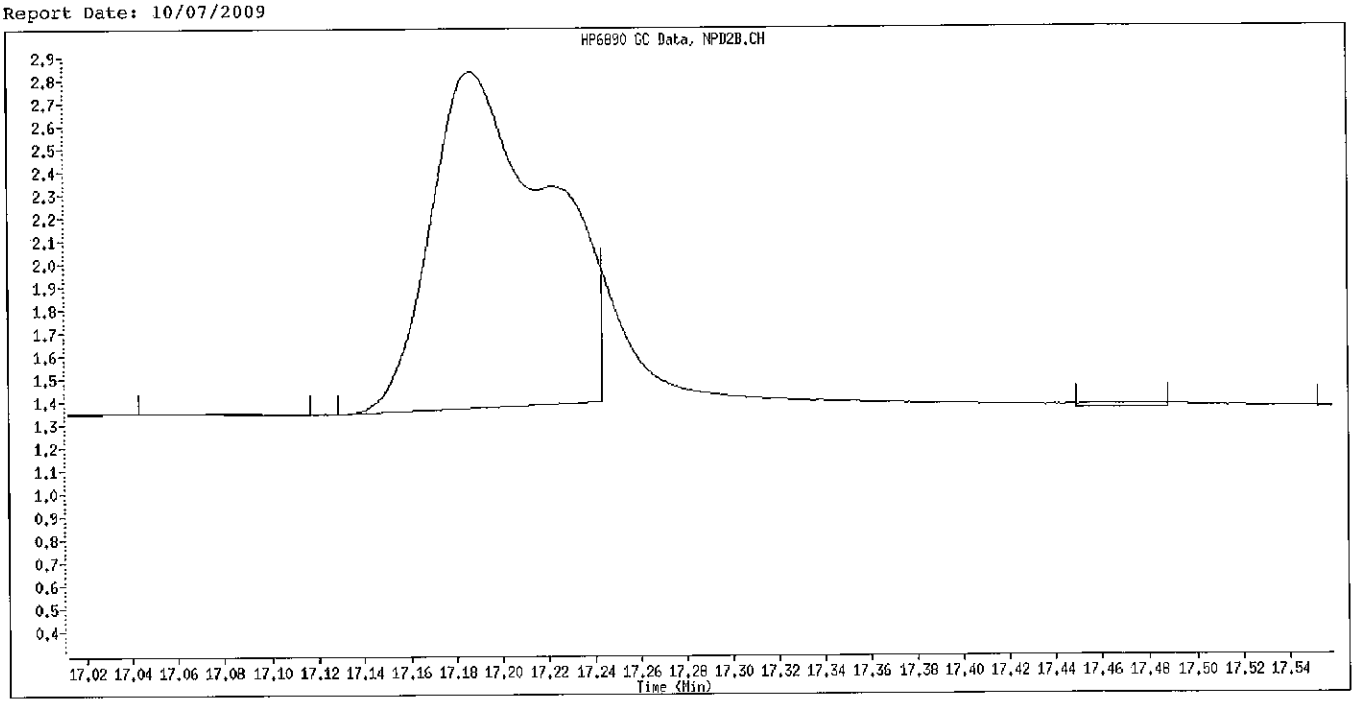
Original Integration



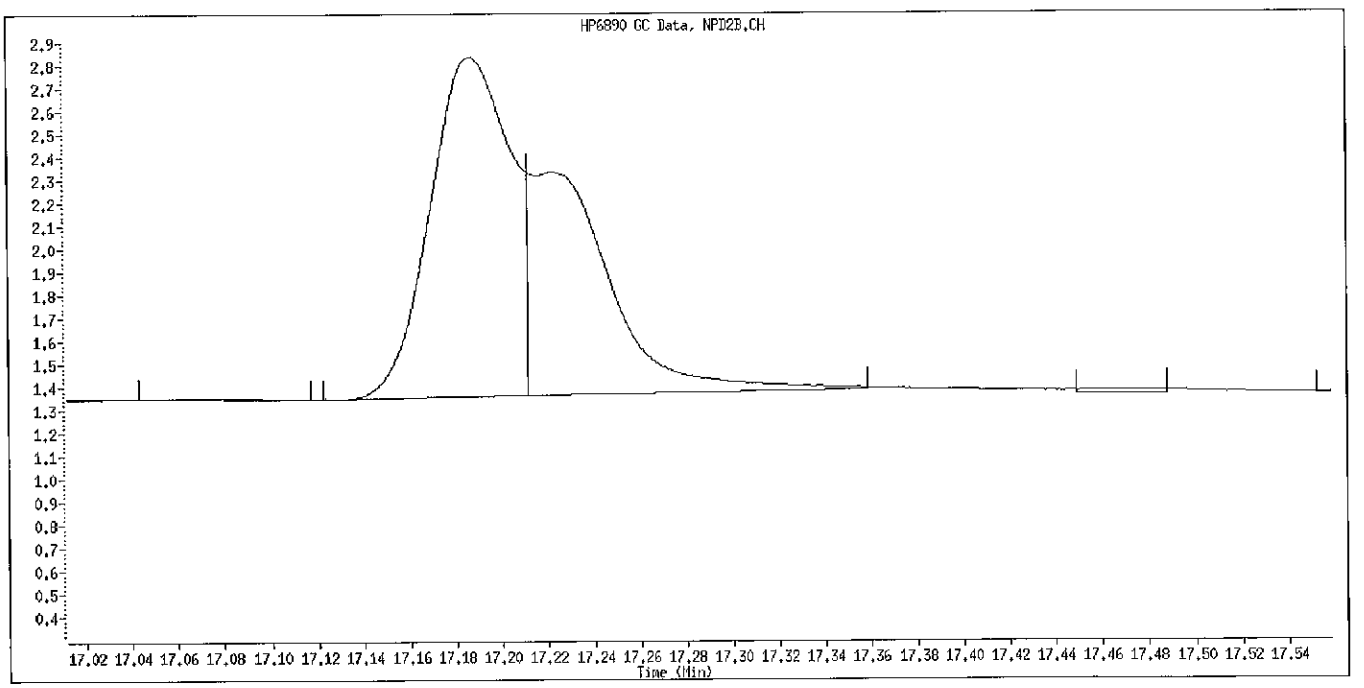
Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Data File Name: 032F3201.D
Inj. Date and Time: 06-OCT-2009 11:49
Instrument ID: GC_D.i
Client ID: 8141 CCV GSV1085
Compound Name: Phorate
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 o,o,o-TEPT	2.5000	2.6239	5.0	15.0	
2 Dichlorvos	2.5000	2.6183	4.7	15.0	
3 Mevinphos	2.5000	2.5553	2.2	15.0	
4 Chlormefos	2.5000	2.5178	0.7	15.0	
5 Thionazin	2.5000	2.5324	1.3	15.0	
6 Demeton-O	0.8125	0.8678	6.8	15.0	
7 Ethoprop	2.5000	2.6293	5.2	15.0	
8 Naled	2.5000	2.0694	17.2	15.0	<-
9 Sulfotepp	2.5000	2.5566	2.3	15.0	
10 Phorate	2.5000	2.6975	7.9	15.0	
11 Dimethoate	2.5000	2.5266	1.1	15.0	
12 Demeton-S	1.7000	1.7817	4.8	15.0	
13 Simazine	2.5000	2.4581	1.7	15.0	
14 Atrazine	2.5000	2.4930	0.3	15.0	
15 propazine	2.5000	2.4326	2.7	15.0	
17 Disulfoton	2.5000	2.5643	2.6	15.0	
16 Diazinon	2.5000	2.4103	3.6	15.0	
18 Methyl Parathion	2.5000	2.3991	4.0	15.0	
19 Ronnel	2.5000	2.2540	9.8	15.0	
20 Malathion	2.5000	2.7626	10.5	15.0	
21 Fenthion	2.5000	2.4294	2.8	15.0	
22 Parathion	2.5000	2.4604	1.6	15.0	
23 Chlorpyrifos	2.5000	2.3019	7.9	15.0	
24 Trichloronate	2.5000	2.3516	5.9	15.0	
25 Anilazine	2.5000	1.7328	30.7	15.0	<-
148 Merphos-A (Merphos)	2.5000	3.7211	48.8	999.0	
26 Tetrachlorvinphos (Stirophos)	2.5000	2.3060	7.8	15.0	
28 Tokuthion	2.5000	2.5182	0.7	15.0	
149 Merphos-B (Merphos Oxone)	2.5000	1.8070	27.7	999.0	
29 Carbophenothion-methyl	2.5000	2.4120	3.5	15.0	
29 Fensulfothion	2.5000	2.6715	6.9	15.0	
30 Bolstar / Famphur	5.0000	5.2444	4.9	15.0	
32 Carbophenothion	2.5000	2.6493	6.0	15.0	
31 Triphenyl phosphate	2.5000	2.4960	0.2	15.0	
34 Phosmet	2.5000	2.5909	3.6	15.0	
32 EPN	2.5000	2.6546	6.2	15.0	
33 Azinphos-methyl	2.5000	2.6346	5.4	15.0	
38 Azinphos-ethyl	2.5000	2.5699	2.8	15.0	
36 Coumaphos	2.5000	2.5517	2.1	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.6495	6.0	15.0
27 Merphos	2.5000	2.6112	4.4	15.0

Average %D = 6.84

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\051F5101.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 23:21
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:21 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 51 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.266	4.271	(0.313)	578986	2.50000	2.624
	2 Dichlorvos	5.813	5.824	(0.426)	414637	2.50000	2.618
	3 Mevinphos	9.343	9.342	(0.685)	187380	2.50000	2.555
$	4 Chlormefos	9.458	9.462	(0.693)	516397	2.50000	2.518
	5 Thionazin	12.578	12.576	(0.922)	405097	2.50000	2.532
	6 Demeton-O	12.832	12.830	(0.941)	120396	0.81250	0.8678
	7 Ethoprop	13.147	13.144	(0.964)	406709	2.50000	2.629
	8 Naled	13.427	13.425	(0.984)	107525	2.50000	2.069
*	9 Tributylphosphate	13.641	13.639	(1.000)	290754	2.00000	
	10 Sulfotepp	14.101	14.101	(1.034)	534044	2.50000	2.557
	11 Phorate	14.187	14.188	(1.040)	383714	2.50000	2.697
	12 Dimethoate	14.371	14.362	(1.054)	378671	2.50000	2.526
	13 Demeton-S	14.635	14.628	(1.073)	231327	1.70000	1.782
	14 Simazine	14.759	14.753	(1.082)	122802	2.50000	2.458
	15 Atrazine	14.971	14.969	(1.097)	153022	2.50000	2.493
	16 propazine	15.152	15.151	(1.111)	154555	2.50000	2.433
	17 Disulfoton	15.832	15.829	(0.585)	309291	2.50000	2.564
	18 Diazinon	15.897	15.896	(0.588)	400181	2.50000	2.410
	19 Methyl Parathion	16.804	16.799	(0.621)	285461	2.50000	2.399
	20 Ronnel	17.421	17.419	(0.644)	285750	2.50000	2.254
	21 Malathion	18.091	18.088	(0.669)	255449	2.50000	2.763
	22 Fenthion	18.250	18.245	(0.675)	284523	2.50000	2.429
	23 Parathion	18.358	18.355	(0.679)	266045	2.50000	2.460
	24 Chlorpyrifos	18.414	18.411	(0.681)	405545	2.50000	2.302
	25 Trichloronate	18.918	18.918	(0.699)	357528	2.50000	2.352
	26 Anilazine	19.347	19.324	(0.715)	10366	2.50000	1.733
	27 Merphos-A (Merphos)	19.759	19.757	(0.730)	160042	2.50000	3.721
	28 Tetrachlorvinphos (Stirophos)	20.485	20.478	(0.757)	202713	2.50000	2.306
	29 Tokuthion	21.237	21.233	(0.785)	336912	2.50000	2.518
	30 Merphos-B (Merphos Oxone)	21.485	21.484	(0.794)	185709	2.50000	1.807
	31 Carbophenothion-methyl	22.221	22.213	(0.821)	235788	2.50000	2.412
	32 Fensulfothion	22.406	22.390	(0.828)	287696	2.50000	2.672
	33 Bolstar / Famphur	23.578	23.573	(0.871)	581246	5.00000	5.244

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.905	23.898	(0.884)	300351	2.50000	2.649
$	35 Triphenyl phosphate	25.225	25.224	(0.932)	229806	2.50000	2.496(A)
	36 Phosmet	25.756	25.743	(0.952)	224938	2.50000	2.591
	37 EPN	26.076	26.074	(0.964)	294462	2.50000	2.654
	38 Azinphos-methyl	26.575	26.569	(0.982)	237478	2.50000	2.635
*	39 TCCP	27.056	27.056	(1.000)	198800	2.00000	
	40 Azinphos-ethyl	27.163	27.155	(1.004)	260649	2.50000	2.570
	41 Coumaphos	27.687	27.680	(1.023)	227856	2.50000	2.552
M	42 Total Demeton				351723	2.50000	2.649
M	43 Merphos				345751	2.50000	2.611

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

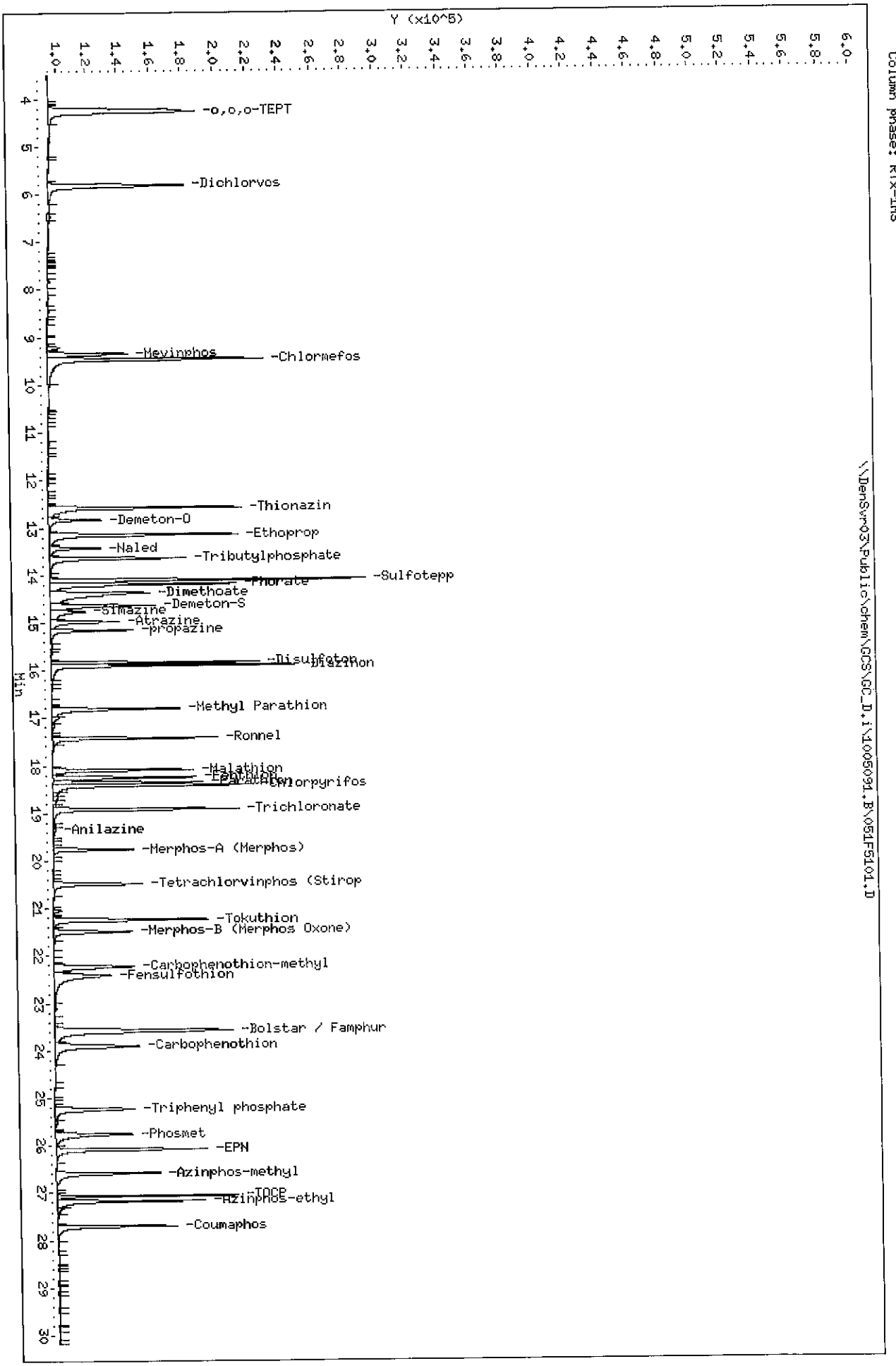
Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 11:49
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	350865	175433	701730	290754	-17.13
39 TOCP	227665	113833	455330	198800	-12.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.65	13.15	14.15	13.64	-0.04
39 TOCP	27.06	26.56	27.56	27.06	-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\GCS\GC_D.i\1005091.B\051F5101.D
Date : 06-OCT-2009 23:21
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-1MS
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\051F5101.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Thionazin
-Demeton-O
-Ethoprop
-Naled
-Tributylphosphate
-Sulfotepp
-Phorate
-Dimethoate
-Demeton-S
-Simazine
-Atrazine
-propazine
-Disulfoton
-Diazinon
-Methyl Parathion
-Ronnel
-Malathion
-Chlorpyrifos
-Trichloronate
-Anilazine
-Merphos-A (Merphos)
-Tetrachlorvinphos (Stirop
-Tokuthion
-Merphos-B (Merphos Oxone)
-Carbophenothion-methyl
-Fensulfothion
-Bolstar / Famphur
-Carbophenothion
-Triphenyl phosphate
-Phosmet
-EPN
-Azinphos-methyl
-TOCP
-Azinphos-ethyl
-Coumaphos

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 o,o,o-TEPT	2.5000	2.5052	0.2	15.0	
2 Dichlorvos	2.5000	2.6507	6.0	15.0	
3 Chlormefos	2.5000	2.3546	5.8	15.0	
4 Mevinphos	2.5000	2.6421	5.7	15.0	
5 Demeton-O	0.8125	0.8114	0.1	15.0	
6 Thionazin	2.5000	2.4948	0.2	15.0	
7 Ethoprop	2.5000	2.6368	5.5	15.0	
10 Naled	2.5000	2.2433	10.3	15.0	
145 Sulfotepp	2.5000	2.6063	4.3	15.0	
8 Phorate	2.5000	2.7007	8.0	15.0	
15 Demeton-S	1.7000	1.7318	1.9	15.0	
10 Simazine	2.5000	2.1097	15.6	15.0	<-
13 Atrazine / Propazine	5.0000	4.4591	10.8	15.0	
16 Dimethoate	2.5000	2.3550	5.8	15.0	
11 Diazinon	2.5000	2.3304	6.8	15.0	
14 Disulfoton	2.5000	2.4210	3.2	15.0	
23 Methyl Parathion	2.5000	2.4495	2.0	15.0	
17 Ronnel	2.5000	2.4915	0.3	15.0	
24 Malathion	2.5000	2.5012	0.0	15.0	
18 Chlorpyrifos	2.5000	2.3868	4.5	15.0	
20 Trichloronate	2.5000	2.3024	7.9	15.0	
26 Parathion	2.5000	2.5391	1.6	15.0	
19 Fenthion	2.5000	2.5253	1.0	15.0	
151 Merphos-A (Merphos)	2.5000	3.3931	35.7	999.0	
21 Anilazine	2.5000	1.7286	30.9	15.0	<-
27 Tetrachlorvinphos (stirophos)	2.5000	2.4953	0.2	15.0	
25 Tokuthion	2.5000	2.4805	0.8	15.0	
148 Merphos-B (Merphos oxone)	2.5000	1.7590	29.6	999.0	
28 Carbophenothion methyl	2.5000	2.5064	0.3	15.0	
30 Fensulfothion	2.5000	2.4826	0.7	15.0	
28 Bolstar	2.5000	2.4524	1.9	15.0	
30 Carbophenothion	2.5000	2.3705	5.2	15.0	
33 Famphur	2.5000	2.4494	2.0	15.0	
29 Triphenyl phosphate	2.5000	2.5296	1.2	15.0	
32 EPN	2.5000	2.5490	2.0	15.0	
34 Phosmet	2.5000	2.4210	3.2	15.0	
34 Azinphos-methyl	2.5000	2.6560	6.2	15.0	
35 Azinphos-ethyl	2.5000	2.6671	6.7	15.0	
36 Coumaphos	2.5000	2.4212	3.2	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B/051F5101.D
Report Date: 10/07/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Analysis Type: NONE

Injection Date: 06-OCT-2009 23:21
Lab Sample ID: 8141 CCV GSV1085
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.5000	2.5432	1.7	15.0
22 Merphos	2.5000	2.6134	4.5	15.0

Average %D = 5.94

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\051F5101.D
Lab Smp Id: 8141 CCV GSV1085 Client Smp ID: 8141 CCV GSV1085
Inj Date : 06-OCT-2009 23:21
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 CCV GSV1085
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:27 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 51 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.717	6.724	(0.416)	429741	2.50000	2.505
	2 Dichlorvos	8.896	8.899	(0.551)	323760	2.50000	2.651
$	3 Chlormefos	12.831	12.830	(0.795)	275074	2.50000	2.354
	4 Mevinphos	12.945	12.944	(0.802)	193854	2.50000	2.642
	5 Demeton-O	15.895	15.894	(0.985)	58915	0.81250	0.8114
	6 Thionazin	16.021	16.019	(0.993)	263609	2.50000	2.495
*	7 Tributylphosphate	16.140	16.139	(1.000)	204831	2.00000	
	8 Ethoprop	16.284	16.282	(1.009)	326614	2.50000	2.637
	9 Naled	16.869	16.866	(1.045)	84840	2.50000	2.243
	10 Sulfotepp	17.182	17.181	(1.065)	370007	2.50000	2.606
	11 Phorate	17.219	17.219	(1.067)	259519	2.50000	2.701
	12 Demeton-S	17.908	17.906	(1.110)	144661	1.70000	1.732
	13 Simazine	18.320	18.319	(1.135)	38670	2.50000	2.110
	14 Atrazine / Propazine	18.386	18.384	(1.139)	174020	5.00000	4.459
	15 Dimethoate	18.512	18.510	(1.147)	254667	2.50000	2.355
	16 Diazinon	18.911	18.910	(1.172)	236388	2.50000	2.330
	17 Disulfoton	19.174	19.173	(1.188)	249071	2.50000	2.421
	18 Methyl Parathion	21.075	21.074	(0.735)	192438	2.50000	2.449(A)
	19 Ronnel	21.162	21.160	(0.738)	239181	2.50000	2.492
	20 Malathion	22.421	22.420	(0.782)	174495	2.50000	2.501
	21 Chlorpyrifos	22.577	22.576	(0.787)	214136	2.50000	2.387
	22 Trichloronate	22.751	22.749	(0.793)	220448	2.50000	2.302
	23 Parathion	22.802	22.801	(0.795)	221831	2.50000	2.539
	24 Fenthion	22.871	22.869	(0.797)	273370	2.50000	2.525
	25 Merphos-A (Merphos)	23.402	23.403	(0.816)	131852	2.50000	3.393
	26 Anilazine	24.402	24.386	(0.851)	11339	2.50000	1.728
	27 Tetrachlorvinphos (stirophos)	25.823	25.821	(0.900)	149560	2.50000	2.495
	28 Tokuthion	26.004	26.004	(0.907)	229399	2.50000	2.480
	29 Merphos-B (Merphos oxone)	26.139	26.137	(0.911)	142811	2.50000	1.759
	30 Carbophenothion methyl	26.972	26.973	(0.940)	173707	2.50000	2.506
	31 Fensulfothion	27.211	27.209	(0.949)	151246	2.50000	2.483
	32 Bolstar	27.322	27.322	(0.953)	199312	2.50000	2.452
	33 Carbophenothion	27.437	27.436	(0.957)	168055	2.50000	2.370

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.620	27.620	(0.963)	173097	2.50000	2.449
$	35 Triphenyl phosphate	27.912	27.912	(0.973)	152915	2.50000	2.530
	36 EPN	28.218	28.219	(0.984)	190069	2.50000	2.549
	37 Phosmet	28.346	28.345	(0.988)	155527	2.50000	2.421
*	38 TOCP	28.680	28.680	(1.000)	153886	2.00000	
	39 Azinphos-methyl	28.793	28.792	(1.004)	160239	2.50000	2.656
	40 Azinphos-ethyl	29.102	29.102	(1.015)	168091	2.50000	2.667
	41 Coumaphos	29.429	29.428	(1.026)	144854	2.50000	2.421
M	42 Total Demeton				203576	2.50000	2.543
M	43 Merphos				274663	2.50000	2.613(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

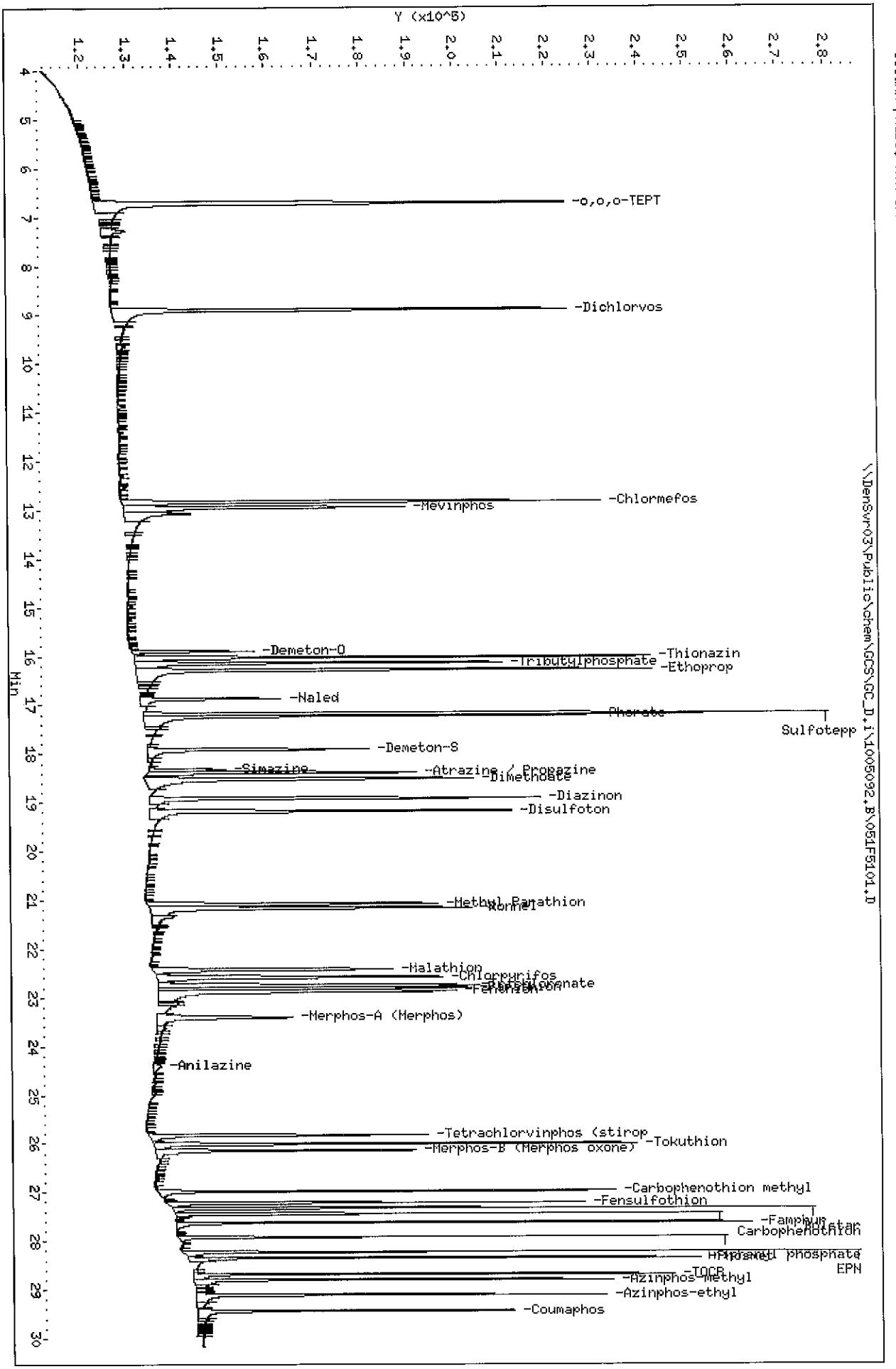
Instrument ID: GC_D.i
Lab File ID: 051F5101.D
Lab Smp Id: 8141 CCV GSV1085
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 11:49
Client Smp ID: 8141 CCV GSV108
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	210740	105370	421480	204831	-2.80
38 TOCP	167368	83684	334736	153886	-8.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.14	-0.02
38 TOCP	28.68	28.18	29.18	28.68	-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\1005092.B\051F5101.D
Date : 06-OCT-2009 23:21
Client ID: 8141 CCV GSV1085
Sample Info: 8141 CCV GSV1085
Column phase: RTx-OPPest
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\051F5101.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Tributylphosphate
-Thionazin
-Ethoprop
-Naled
Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
Ronnel
-Malathion
-Chlorpyrifos
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Famphur
Carbophenothion
EPN
-TOCP
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos

GC SEMIVOLATILE SAMPLE DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\037F3701.D
Lab Smp Id: LLVJ01AA Client Smp ID: BLANK
Inj Date : 06-OCT-2009 14:51
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AA,MB
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 37 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
	3 Mevinphos	Compound Not Detected.					
$	4 Chlormefos	9.459	9.462	(0.692)	229958	0.73225	1.464
	5 Thionazin	12.565	12.576	(0.920)	91	0.09031	0.1806
	6 Demeton-O	Compound Not Detected.					
	7 Ethoprop	Compound Not Detected.					
	8 Naled	Compound Not Detected.					
*	9 Tributylphosphate	13.662	13.639	(1.000)	445191	2.00000	
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Dimethoate	Compound Not Detected.					
	13 Demeton-S	Compound Not Detected.					
	14 Simazine	Compound Not Detected.					
	15 Atrazine	Compound Not Detected.					
	16 propazine	Compound Not Detected.					
	17 Disulfoton	15.861	15.829	(0.586)	1115	0.11167	0.2233
	18 Diazinon	Compound Not Detected.					
	19 Methyl Parathion	Compound Not Detected.					
	20 Ronnel	17.386	17.419	(0.643)	272	0.07419	0.1484
	21 Malathion	Compound Not Detected.					
	22 Fenthion	Compound Not Detected.					

RT

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	Compound Not Detected.					
	24 Chlorpyrifos	Compound Not Detected.					
	25 Trichloronate	Compound Not Detected.					
	26 Anilazine	19.340	19.324	(0.715)	120	0.28237	0.5647
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.466	20.478	(0.756)	1011	0.14986	0.2997 NC
	29 Tokuthion	Compound Not Detected.					
	30 Merphos-B (Merphos Oxone)	21.455	21.484	(0.793)	553	0.00359	0.007181
	31 Carbophenothion-methyl	Compound Not Detected.					
	32 Fensulfothion	Compound Not Detected.					
	33 Bolstar / Famphur	Compound Not Detected.					
	34 Carbophenothion	Compound Not Detected.					
$	35 Triphenyl phosphate	25.254	25.224	(0.933)	120439	0.90288	1.806
	36 Phosmet	Compound Not Detected.					
	37 EPN	Compound Not Detected.					
	38 Azinphos-methyl	Compound Not Detected.					
*	39 TOCP	27.060	27.056	(1.000)	297937	2.00000	
	40 Azinphos-ethyl	Compound Not Detected.					
	41 Coumaphos	Compound Not Detected.					
M	42 Total Demeton	Compound Not Detected.					
M	43 Merphos				553	0.02777	0.05554

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 037F3701.D
Lab Smp Id: LLVJ01AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: BLANK
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	445191	56.75
39 TOCP	197231	98616	394462	297937	51.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.19
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AA
Client Smp ID: BLANK
Level: LOW
Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

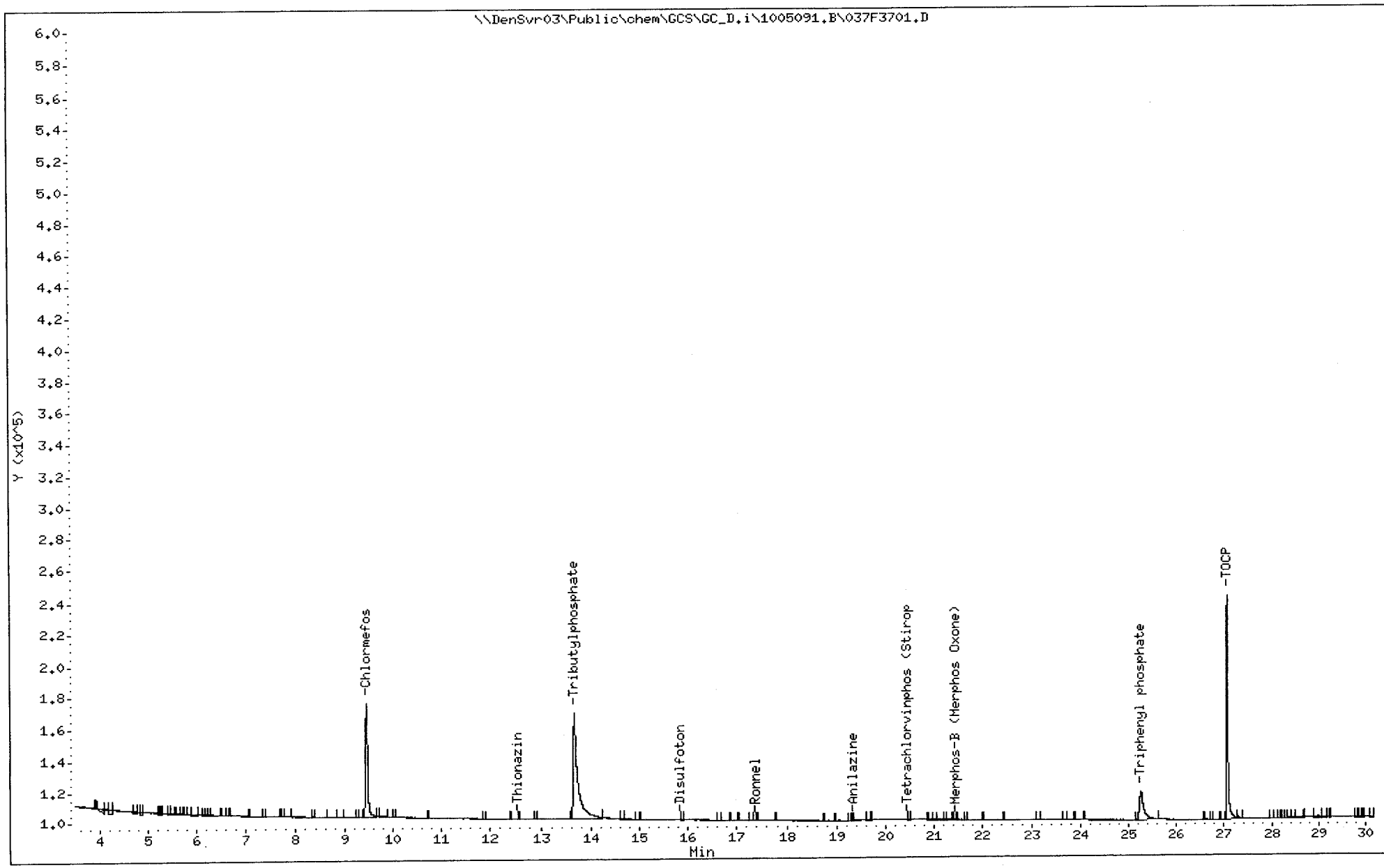
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	2.000	1.464	73.23	48-114
$ 35 Triphenyl phosphat	2.000	1.806	90.29	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\037F3701.D
Date : 06-OCT-2009 14:51
Client ID: BLANK
Sample Info: LLVJ01AA,MB

Instrument: GC_D.i

Operator: TLW
Column diameter: 0.32

Column phase: RTx-1MS



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\037F3701.D
Lab Smp Id: LLVJ01AA Client Smp ID: BLANK
Inj Date : 06-OCT-2009 14:51
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AA,MB
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 37 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
$	3 Chlormefos	12.834	12.830	(0.795)	141501	0.89840	1.797
	4 Mevinphos	Compound Not Detected.					
	5 Demeton-O	Compound Not Detected.					
	6 Thionazin	Compound Not Detected.					
*	7 Tributylphosphate	16.152	16.139	(1.000)	276150	2.00000	
	8 Ethoprop	Compound Not Detected.					
	9 Naled	16.915	16.866	(1.047)	536	0.11453	0.2291
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Demeton-S	17.916	17.906	(1.109)	1136	0.03564	0.07128
	13 Simazine	18.327	18.319	(1.135)	110	0.33722	0.6744
	14 Atrazine / Propazine	Compound Not Detected.					
	15 Dimethoate	18.516	18.510	(1.146)	217	0.11603	0.2320
	16 Diazinon	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Methyl Parathion	21.073	21.074	(0.735)	446	0.10417	0.2083(a)
	19 Ronnel	Compound Not Detected.					
	20 Malathion	22.433	22.420	(0.782)	62	0.03470	0.06939(a)
	21 Chlorpyrifos	Compound Not Detected.					
	22 Trichloronate	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.785	22.801	(0.794)	281	0.05963	0.1192(a)
	24 Fenthion	Compound Not Detected.					
	25 Merphos-A (Merphos)	23.384	23.403	(0.815)	196	0.75529	1.510
	26 Anilazine	24.318	24.386	(0.848)	1558	0.30633	0.6126
	27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
	28 Tokuthion	Compound Not Detected.					
	29 Merphos-B (Merphos oxone)	26.144	26.137	(0.911)	221	0.00196	0.003914(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	27.916	27.912	(0.973)	78414	0.93266	1.865
	36 EPN	Compound Not Detected.					
	37 Phosmet	Compound Not Detected.					
*	38 TOCP	28.684	28.680	(1.000)	214027	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: 037F3701.D
Lab Smp Id: LLVJ01AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	276150	32.87
38 TOCP	159861	79931	319722	214027	33.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.10
38 TOCP	28.68	28.18	29.18	28.68	0.02

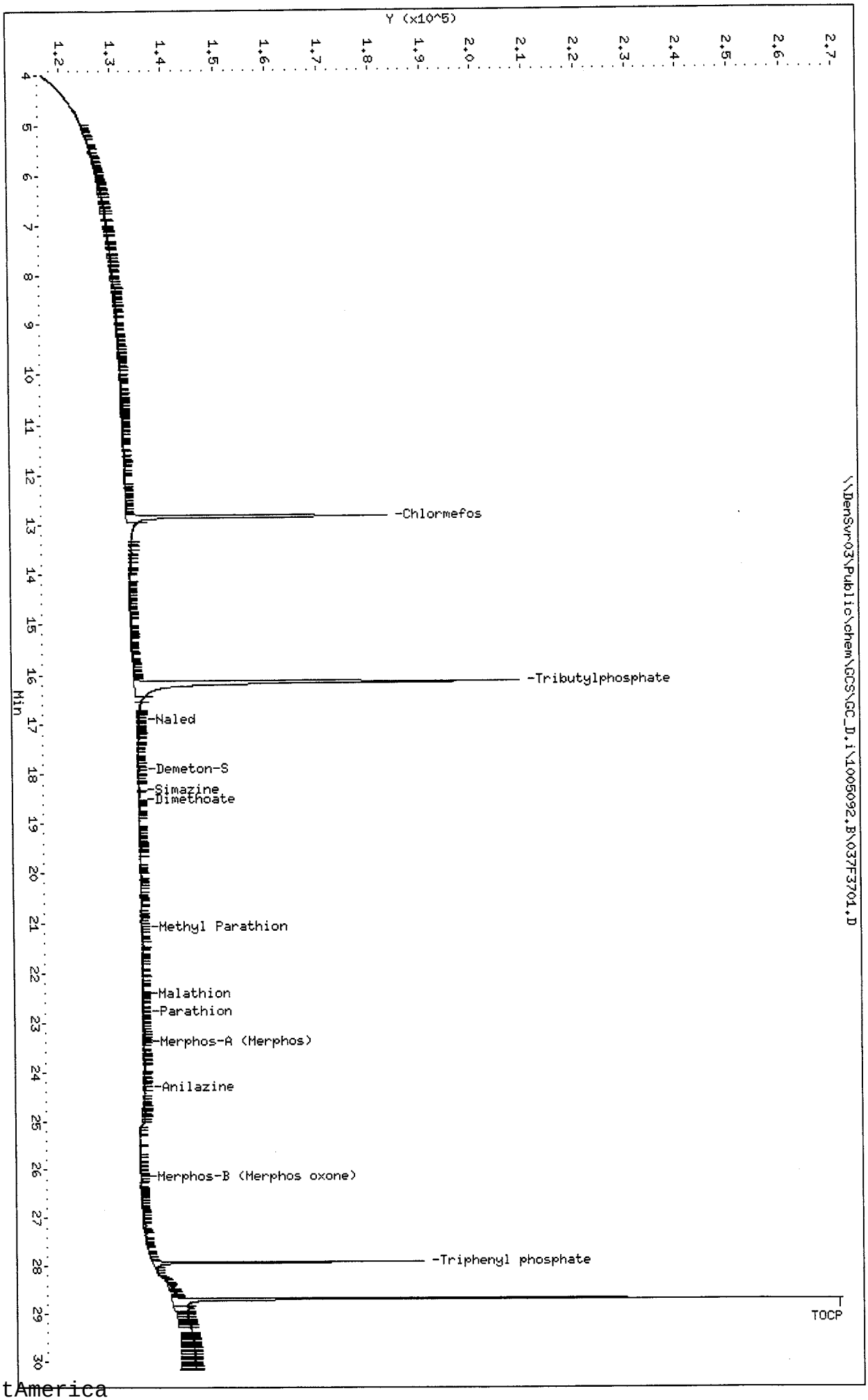
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AA
Client Smp ID: BLANK
Level: LOW
Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	2.000	1.797	89.84	48-114
$ 35 Triphenyl phosphat	2.000	1.865	93.27	50-150


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\1005092,B\037F3701.D
Date : 06-OCT-2009 14:51
Client ID: BLANK
Sample Info: LLVJ01AA,MB
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\1005092,B\037F3701.D
Y (x10^5)
Min
-Chlormefos
-Tributylphosphate
-Naled
-Demeton-S
-Simazine
-Dimethoate
-Methyl Parathion
-Malathion
-Parathion
-Merphos-A (Merphos)
-Anilazine
-Merphos-B (Merphos oxone)
-Triphenyl phosphate
TOCP

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\038F3801.D
Lab Smp Id: LLVJ01AC Client Smp ID: LCS
Inj Date : 06-OCT-2009 15:27
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AC,LCS
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 38 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)	CONCENTRATIONS FINAL (ug/L)
1	o,o,o-TEPT	4.226	4.271	(0.310)	960539	2.50300	5.006(R)
2	Dichlorvos	5.810	5.824	(0.426)	555891	2.01839	4.037
3	Mevinphos	9.360	9.342	(0.686)	158213	1.32555	2.651
$ 4	Chlormefos	9.460	9.462	(0.693)	388130	1.08810	2.176
5	Thionazin	12.586	12.576	(0.922)	500282	1.82432	3.649
6	Demeton-O	12.838	12.830	(0.940)	375123	1.54964	3.099
7	Ethoprop	13.155	13.144	(0.964)	496846	1.85652	3.713
8	Naled	13.435	13.425	(0.984)	149264	1.68114	3.362
* 9	Tributylphosphate	13.654	13.639	(1.000)	505670	2.00000	
10	Sulfotepp	14.105	14.101	(1.033)	590499	1.62541	3.251
11	Phorate	14.193	14.188	(1.039)	387044	1.50166	3.003
12	Dimethoate	14.395	14.362	(1.054)	371330	1.51425	3.028
13	Demeton-S	14.647	14.628	(1.073)	43383	0.13881	0.2776(R)
14	Simazine	14.773	14.753	(1.082)	158759	1.82720	3.654
15	Atrazine	14.982	14.969	(1.097)	175777	1.64658	3.293
16	propazine	15.160	15.151	(1.110)	183559	1.66121	3.322
17	Disulfoton	15.843	15.829	(0.585)	321634	1.78575	3.571
18	Diazinon	15.905	15.896	(0.588)	490677	1.94202	3.884
19	Methyl Parathion	16.817	16.799	(0.621)	335989	1.87371	3.747
20	Ronnel	17.430	17.419	(0.644)	326648	1.71119	3.422
21	Malathion	18.100	18.088	(0.669)	262258	1.86372	3.727
22	Fenthion	18.261	18.245	(0.675)	302454	1.72210	3.444

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	18.370	18.355	(0.679)	268060	1.69519	3.390
	24 Chlorpyrifos	18.420	18.411	(0.681)	509030	1.89855	3.797
	25 Trichloronate	18.926	18.918	(0.699)	362490	1.59064	3.181
	26 Anilazine	19.306	19.324	(0.713)	3599	0.60455	1.209(R)
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.494	20.478	(0.757)	204705	1.60248	3.205
	29 Tokuthion	21.247	21.233	(0.785)	369993	1.82895	3.658
	30 Merphos-B (Merphos Oxone)	21.496	21.484	(0.794)	373712	2.38939	4.779
	31 Carbophenothion-methyl	22.240	22.213	(0.822)	245871	1.67856	3.357
	32 Fensulfothion	22.430	22.390	(0.829)	284649	1.77083	3.542
	33 Bolstar / Famphur	23.596	23.573	(0.872)	652661	3.89327	7.786
	34 Carbophenothion	23.916	23.898	(0.884)	310233	1.80520	3.610
$	35 Triphenyl phosphate	25.245	25.224	(0.933)	133497	0.98132	1.963
	36 Phosmet	25.764	25.743	(0.952)	254853	1.94500	3.890
	37 EPN	26.085	26.074	(0.964)	317968	1.88915	3.778
	38 Azinphos-methyl	26.585	26.569	(0.982)	240103	1.77623	3.552
*	39 TOCP	27.060	27.056	(1.000)	302539	2.00000	
	40 Azinphos-ethyl	27.169	27.155	(1.004)	277323	1.79674	3.593
	41 Coumaphos	27.690	27.680	(1.023)	241894	1.79933	3.599
M	42 Total Demeton				418506	1.68845	3.377
M	43 Merphos				373712	1.86183	3.724

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 038F3801.D
Lab Smp Id: LLVJ01AC
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	505670	78.04
39 TOCP	197231	98616	394462	302539	53.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.13
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

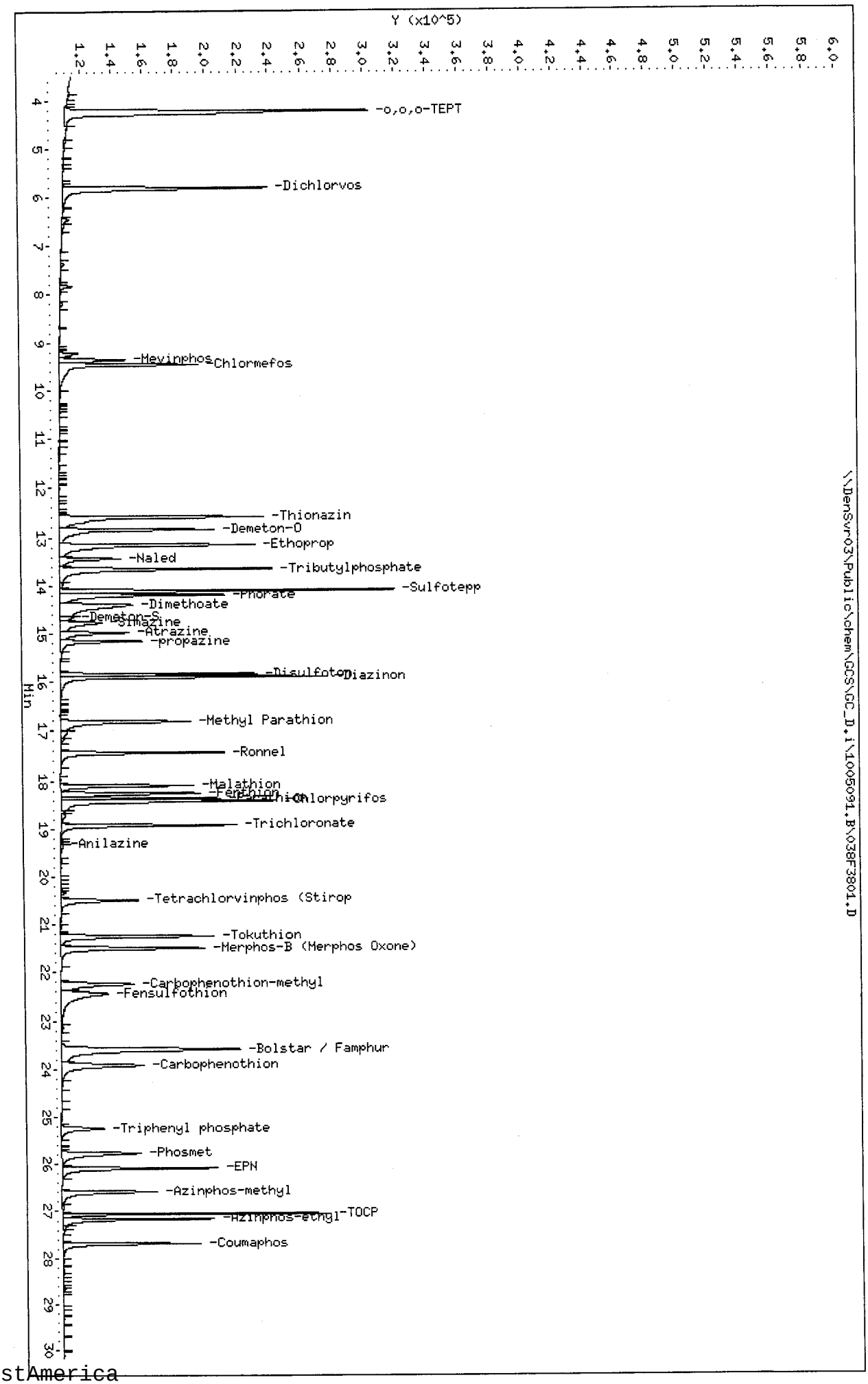
	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1 o,o,o-TEPT	4.000	5.006	125.15*	36-119
	2 Dichlorvos	4.000	4.037	100.92	50-120
	3 Mevinphos	4.000	2.651	66.28	35-108
$	4 Chlormefos	2.000	2.176	108.81	48-114
	5 Thionazin	4.000	3.649	91.22	65-116
	6 Demeton-O	2.792	3.099	111.01	36-119
	7 Ethoprop	4.000	3.713	92.83	65-108
	8 Naled	4.000	3.362	84.06	36-119
	10 Sulfotepp	4.000	3.251	81.27	69-103
	11 Phorate	4.000	3.003	75.08	62-104
	12 Dimethoate	4.000	3.028	75.71	28-115
	13 Demeton-S	1.208	0.2776	22.98*	36-119
	14 Simazine	4.000	3.654	91.36	47-109
	15 Atrazine	4.000	3.293	82.33	36-119
	16 propazine	4.000	3.322	83.06	36-119
	17 Disulfoton	4.000	3.571	89.29	61-103
	18 Diazinon	4.000	3.884	97.10	36-119
	19 Methyl Parathion	4.000	3.747	93.69	68-119
	20 Ronnel	4.000	3.422	85.56	62-115
	21 Malathion	4.000	3.727	93.19	67-115
	22 Fenthion	4.000	3.444	86.10	36-119
	23 Parathion	4.000	3.390	84.76	36-119
	24 Chlorpyrifos	4.000	3.797	94.93	66-101
	25 Trichloronate	4.000	3.181	79.53	36-119
	26 Anilazine	4.000	1.209	30.23*	47-115
	28 Tetrachlorvinphos	4.000	3.205	80.12	36-119
	29 Tokuthion	4.000	3.658	91.45	36-119
	31 Carbophenothion-me	4.000	3.357	83.93	36-119
	32 Fensulfothion	4.000	3.542	88.54	61-115
	33 Bolstar / Famphur	8.000	7.786	97.33	36-119
	34 Carbophenothion	4.000	3.610	90.26	50-150
$	35 Triphenyl phosphat	2.000	1.963	98.13	50-150
	36 Phosmet	4.000	3.890	97.25	50-150
	37 EPN	4.000	3.778	94.46	36-119
	38 Azinphos-methyl	4.000	3.552	88.81	55-115
	40 Azinphos-ethyl	4.000	3.593	89.84	36-119
	41 Coumaphos	4.000	3.599	89.97	62-115
M	42 Total Demeton	4.000	3.377	84.42	47-115
M	43 Merphos	4.000	3.724	93.09	36-119

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	2.000	2.176	108.81	48-114
$ 35 Triphenyl phosphat	2.000	1.963	98.13	50-150



Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\038F3801.D
Date : 06-OCT-2009 15:27
Client ID: LCS
Sample Info: LLWJ01AC,LCS
Column phase: RTx-1MS
\\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\038F3801.D
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\038F3801.D
Lab Smp Id: LLVJ01AC Client Smp ID: LCS
Inj Date : 06-OCT-2009 15:27
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AC,LCS
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 38 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	6.712	6.724	(0.416)	513537	2.03767	4.075
	2 Dichlorvos	8.900	8.899	(0.551)	364244	2.02983	4.060
$	3 Chlormefos	12.835	12.830	(0.795)	141118	0.82219	1.644
	4 Mevinphos	12.955	12.944	(0.802)	133715	1.24047	2.481
	5 Demeton-O	15.900	15.894	(0.985)	168667	1.58105	3.162
	6 Thionazin	16.026	16.019	(0.992)	286196	1.84358	3.687
*	7 Tributylphosphate	16.148	16.139	(1.000)	300930	2.00000	
	8 Ethoprop	16.290	16.282	(1.009)	313353	1.62643	3.253
	9 Naled	16.876	16.866	(1.045)	90404	1.65577	3.312
	10 Sulfotepp	17.190	17.181	(1.065)	335144	1.52182	3.044(M)
	11 Phorate	17.213	17.219	(1.066)	230485	1.56620	3.132(M)
	12 Demeton-S	17.920	17.906	(1.110)	6567	0.07842	0.1568(R)
	13 Simazine	18.330	18.319	(1.135)	51656	1.94848	3.897
	14 Atrazine / Propazine	18.394	18.384	(1.139)	182756	3.20082	6.402
	15 Dimethoate	18.526	18.510	(1.147)	217842	1.41903	2.838
	16 Diazinon	18.920	18.910	(1.172)	236461	1.58672	3.173
	17 Disulfoton	19.184	19.173	(1.188)	229749	1.52003	3.040
	18 Methyl Parathion	21.086	21.074	(0.735)	185470	1.81584	3.632
	19 Ronnel	21.169	21.160	(0.738)	248443	1.96097	3.922
	20 Malathion	22.430	22.420	(0.782)	153352	1.67694	3.354
	21 Chlorpyrifos	22.587	22.576	(0.787)	207231	1.76257	3.525
	22 Trichloronate	22.761	22.749	(0.794)	192047	1.53974	3.079

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.812	22.801	(0.795)	223089	1.94845	3.897
	24 Fenthion	22.882	22.869	(0.798)	244032	1.70808	3.416
	25 Merphos-A (Merphos)	Compound Not Detected.					
	26 Anilazine	24.406	24.386	(0.851)	5032	0.68108	1.362(R)
	27 Tetrachlorvinphos (stirophos)	25.830	25.821	(0.900)	124858	1.63910	3.278
	28 Tokuthion	26.010	26.004	(0.907)	213501	1.74925	3.498
	29 Merphos-B (Merphos oxone)	26.141	26.137	(0.911)	211450	1.97337	3.947
	30 Carbophenothion methyl	26.979	26.973	(0.941)	158702	1.74706	3.494
	31 Fensulfothion	27.216	27.209	(0.949)	134321	1.68678	3.374
	32 Bolstar	27.326	27.322	(0.953)	206821	1.92820	3.856
	33 Carbophenothion	27.440	27.436	(0.957)	168695	1.81029	3.620
	34 Famphur	27.624	27.620	(0.963)	172453	1.86337	3.727
$	35 Triphenyl phosphate	27.915	27.912	(0.973)	84486	1.05898	2.118
	36 EPN	28.223	28.219	(0.984)	184541	1.87524	3.750
	37 Phosmet	28.350	28.345	(0.988)	158650	1.87126	3.742
*	38 TOCP	28.684	28.680	(1.000)	203093	2.00000	
	39 Azinphos-methyl	28.799	28.792	(1.004)	148501	1.83144	3.663
	40 Azinphos-ethyl	29.108	29.102	(1.015)	159125	1.85179	3.704
	41 Coumaphos	29.434	29.428	(1.026)	139024	1.71578	3.432
M	42 Total Demeton				175234	1.65947	3.319
M	43 Merphos				211450	1.53231	3.065

QC Flag Legend

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: 038F3801.D
Lab Smp Id: LLVJ01AC
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	300930	44.80
38 TOCP	159861	79931	319722	203093	27.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.07
38 TOCP	28.68	28.18	29.18	28.68	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.

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

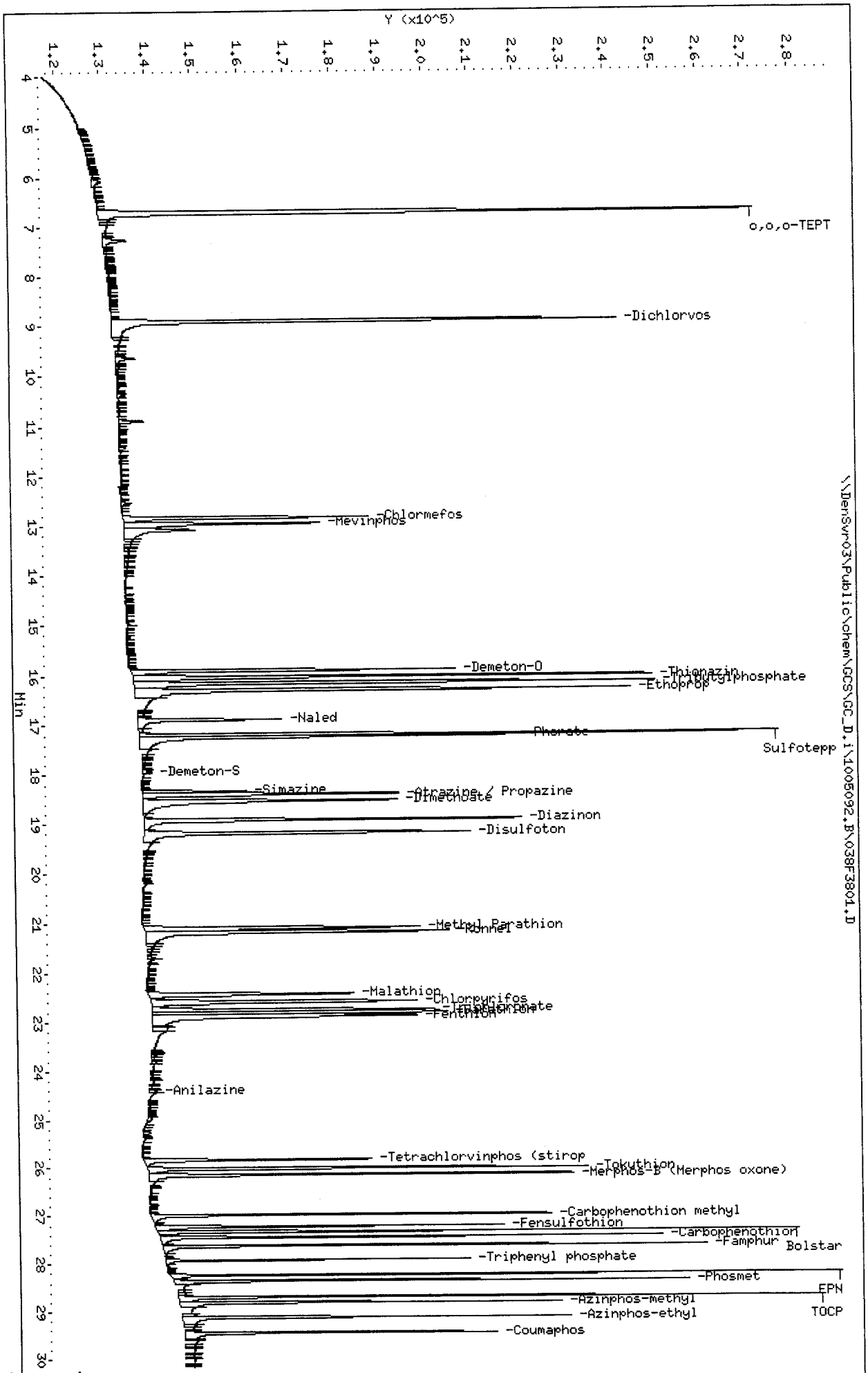
	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1 o,o,o-TEPT	4.000	4.075	101.88	36-119
	2 Dichlorvos	4.000	4.060	101.49	50-120
$	3 Chlormefos	2.000	1.644	82.22	48-114
	4 Mevinphos	4.000	2.481	62.02	35-108
	5 Demeton-O	2.800	3.162	112.93	36-119
	6 Thionazin	4.000	3.687	92.18	65-116
	8 Ethoprop	4.000	3.253	81.32	65-108
	9 Naled	4.000	3.312	82.79	36-119
	10 Sulfotepp	4.000	3.044	76.09	69-103
	11 Phorate	4.000	3.132	78.31	62-104
	12 Demeton-S	1.200	0.1568	13.07*	36-119
	13 Simazine	4.000	3.897	97.42	47-109
	14 Atrazine / Propazi	8.000	6.402	80.02	36-119
	15 Dimethoate	4.000	2.838	70.95	28-115
	16 Diazinon	4.000	3.173	79.34	36-119
	17 Disulfoton	4.000	3.040	76.00	61-103
	18 Methyl Parathion	4.000	3.632	90.79	68-119
	19 Ronnel	4.000	3.922	98.05	62-115
	20 Malathion	4.000	3.354	83.85	67-115
	21 Chlorpyrifos	4.000	3.525	88.13	66-101
	22 Trichloronate	4.000	3.079	76.99	36-119
	23 Parathion	4.000	3.897	97.42	36-119
	24 Fenthion	4.000	3.416	85.40	36-119
	26 Anilazine	4.000	1.362	34.05*	47-115
	27 Tetrachlorvinphos	4.000	3.278	81.96	36-119
	28 Tokuthion	4.000	3.498	87.46	36-119
	30 Carbophenothion me	4.000	3.494	87.35	36-119
	31 Fensulfothion	4.000	3.374	84.34	61-115
	32 Bolstar	4.000	3.856	96.41	36-119
	33 Carbophenothion	4.000	3.620	90.51	36-119
	34 Famphur	4.000	3.727	93.17	36-119
$	35 Triphenyl phosphat	2.000	2.118	105.90	36-119
	36 EPN	4.000	3.750	93.76	36-119
	37 Phosmet	4.000	3.742	93.56	36-119
	39 Azinphos-methyl	4.000	3.663	91.57	55-115
	40 Azinphos-ethyl	4.000	3.704	92.59	36-119
	41 Coumaphos	4.000	3.432	85.79	62-115
M	42 Total Demeton	4.000	3.319	82.97	47-115
M	43 Merphos	4.000	3.065	76.62	36-119

TestAmerica

RECOVERY REPORT

Client Name:
Client SDG: D9J010000
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: LLVJ01AC
Client Smp ID: LCS
Level: LOW
Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	2.000	1.644	82.22	48-114
$ 35 Triphenyl phosphat	2.000	2.118	105.90	50-150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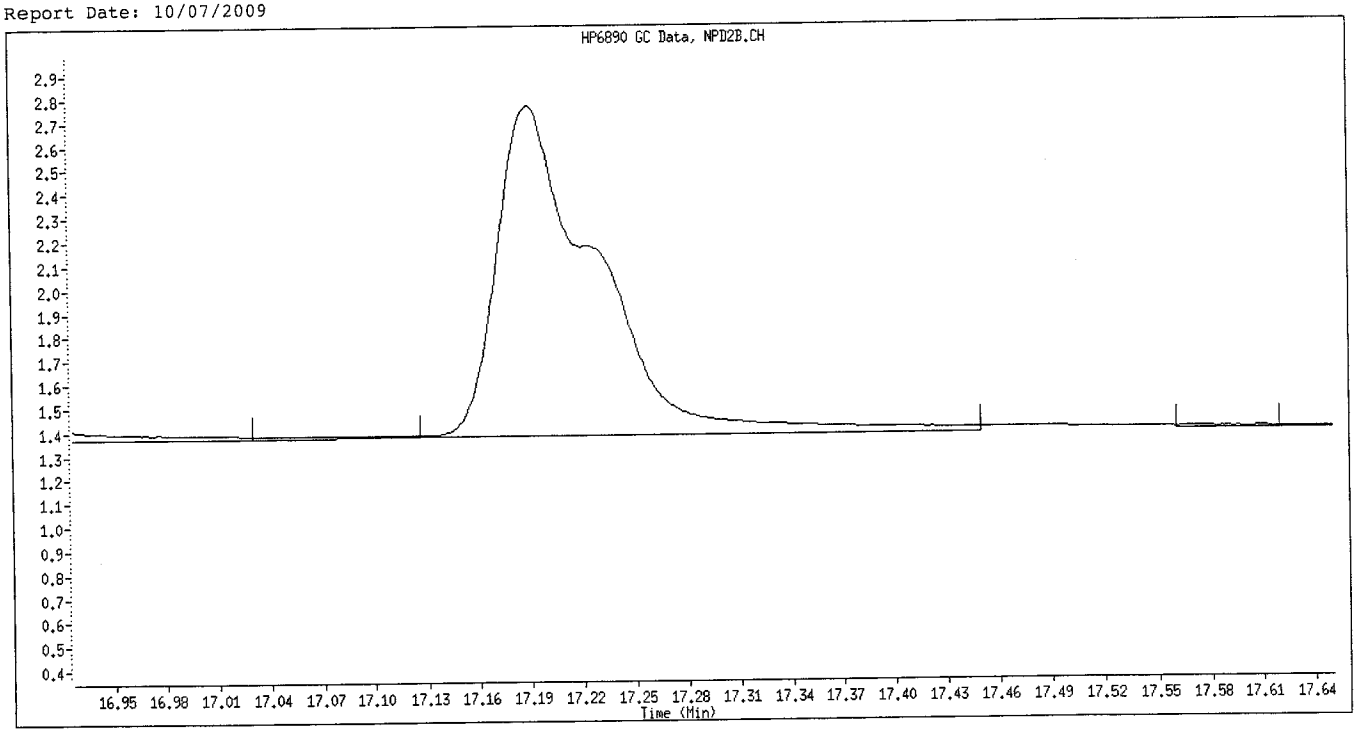
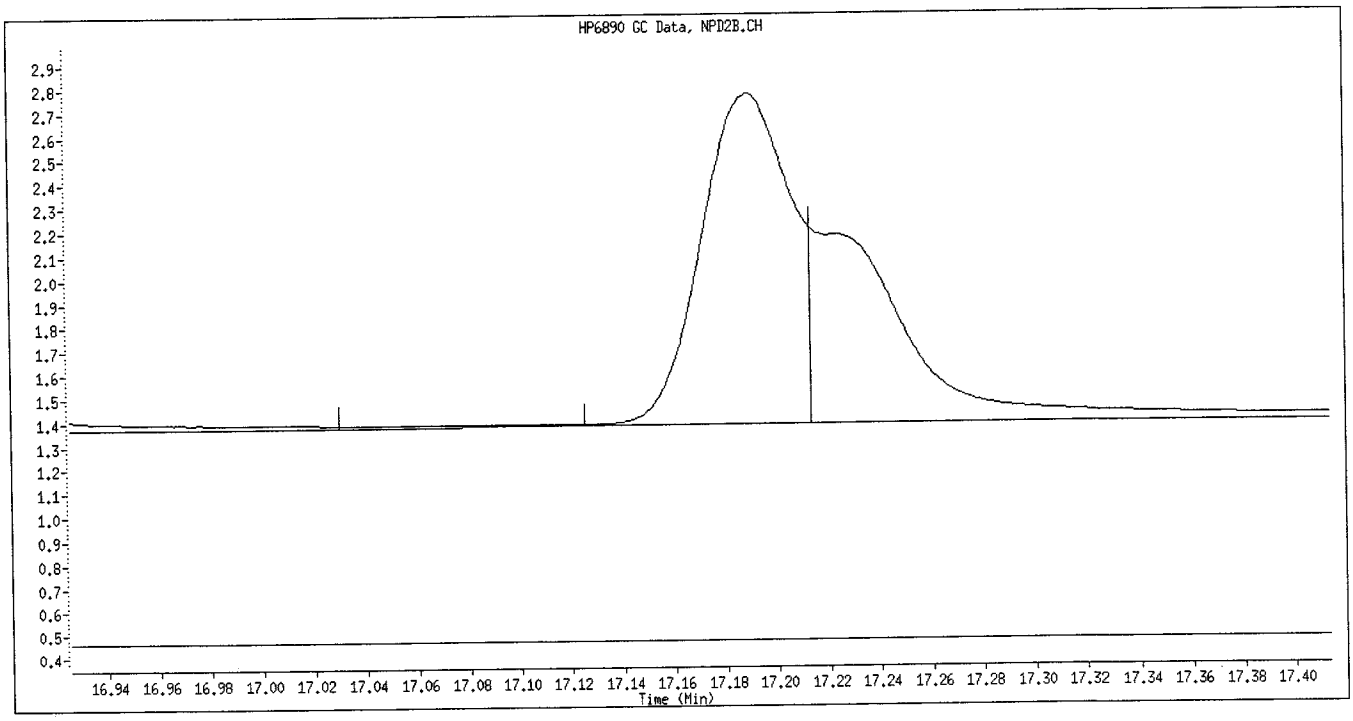
Date : 06-OCT-2009 15:27
Client ID: LCS
Sample Info: LLV3014AC,LCS
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\1005092,B\038F3801.D
Y (x10^5)
Min
o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Thionazin
-Tributylphosphate
-Ethoprop
-Naled
Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Fenthion
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Carbophenothion
-Famphur
Bolstar
-Triphenyl phosphate
-Phosmet
EPN
-Azinphos-methyl
-Azinphos-ethyl
TOCP
-Coumaphos

Data File Name: 038F3801.D
Inj. Date and Time: 06-OCT-2009 15:27
Instrument ID: GC_D.i
Client ID: LCS
Compound Name: Sulfotepp
CAS #:
Report Date: 10/07/2009



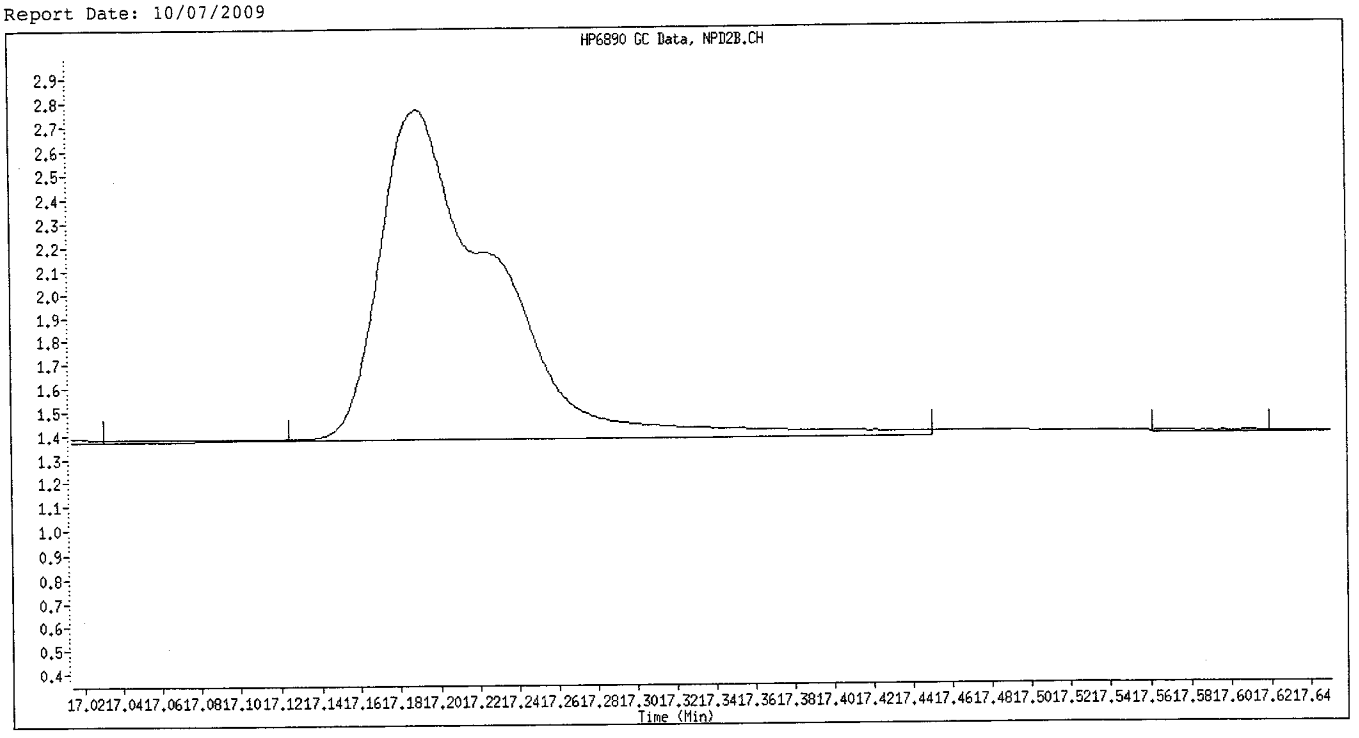
Original Integration



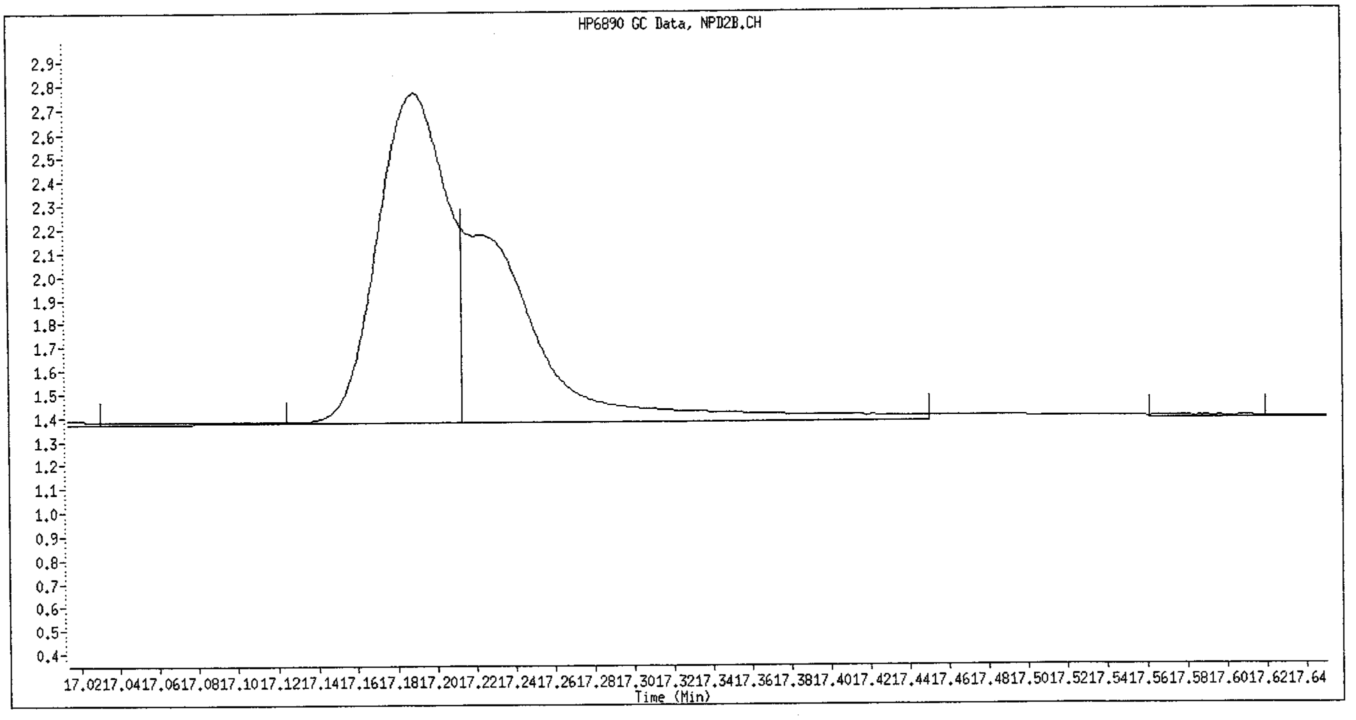
Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Data File Name: 038F3801.D
Inj. Date and Time: 06-OCT-2009 15:27
Instrument ID: GC_D.i
Client ID: LCS
Compound Name: Phorate
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\039F3901.D
Lab Smp Id: LLVJ01AD Client Smp ID: LCSD
Inj Date : 06-OCT-2009 16:04
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AD,LCSD
Misc Info : IS GSV1076-09
Comment   :
Method   : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:21 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 39 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	4.226	4.271	(0.310)	791844	2.27065	4.541(M)
	2 Dichlorvos	5.814	5.824	(0.426)	497337	1.98715	3.974
	3 Mevinphos	9.362	9.342	(0.686)	143080	1.31996	2.640
$	4 Chlormefos	9.461	9.462	(0.693)	350688	1.08187	2.164
	5 Thionazin	12.584	12.576	(0.922)	472047	1.89080	3.782
	6 Demeton-O	12.838	12.830	(0.940)	350230	1.59195	3.184
	7 Ethoprop	13.154	13.144	(0.963)	472385	1.94090	3.882
	8 Naled	13.434	13.425	(0.984)	130392	1.62172	3.243
*	9 Tributylphosphate	13.653	13.639	(1.000)	459518	2.00000	
	10 Sulfotepp	14.106	14.101	(1.033)	559271	1.69407	3.388
	11 Phorate	14.194	14.188	(1.040)	355143	1.51774	3.035
	12 Dimethoate	14.395	14.362	(1.054)	331404	1.49085	2.982
	13 Demeton-S	14.643	14.628	(1.073)	40283	0.14314	0.2863(R)
	14 Simazine	14.773	14.753	(1.082)	135591	1.71729	3.434
	15 Atrazine	14.979	14.969	(1.097)	157217	1.62063	3.241
	16 propazine	15.159	15.151	(1.110)	165358	1.64679	3.294
	17 Disulfoton	15.841	15.829	(0.585)	304913	1.79331	3.587
	18 Diazinon	15.904	15.896	(0.588)	465874	1.95372	3.907
	19 Methyl Parathion	16.816	16.799	(0.621)	323673	1.91091	3.822
	20 Ronnel	17.431	17.419	(0.644)	320963	1.77860	3.557
	21 Malathion	18.098	18.088	(0.669)	258431	1.94595	3.892
	22 Fenthion	18.258	18.245	(0.675)	296681	1.78660	3.573

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	18.369	18.355	(0.679)	268306	1.78599	3.572
	24 Chlorpyrifos	18.423	18.411	(0.681)	507930	2.00733	4.015
	25 Trichloronate	18.927	18.918	(0.699)	352610	1.63728	3.274
	26 Anilazine	19.307	19.324	(0.713)	3599	0.62442	1.249(R)
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.494	20.478	(0.757)	204681	1.68627	3.372
	29 Tokuthion	21.244	21.233	(0.785)	361413	1.89151	3.783
	30 Merphos-B (Merphos Oxone)	21.494	21.484	(0.794)	368778	2.49834	4.997
	31 Carbophenothion-methyl	22.237	22.213	(0.822)	241621	1.74444	3.489
	32 Fensulfothion	22.428	22.390	(0.829)	276513	1.81987	3.640
	33 Bolstar / Famphur	23.589	23.573	(0.872)	634617	4.00845	8.017
	34 Carbophenothion	23.915	23.898	(0.884)	302019	1.86142	3.723
$	35 Triphenyl phosphate	25.243	25.224	(0.933)	129209	1.00522	2.010
	36 Phosmet	25.767	25.743	(0.952)	251488	2.03081	4.062
	37 EPN	26.084	26.074	(0.964)	318062	2.00116	4.002
	38 Azinphos-methyl	26.584	26.569	(0.982)	227539	1.78326	3.566
*	39 TOCP	27.060	27.056	(1.000)	285526	2.00000	
	40 Azinphos-ethyl	27.167	27.155	(1.004)	267930	1.83931	3.679
	41 Coumaphos	27.690	27.680	(1.023)	233264	1.83714	3.674
M	42 Total Demeton				390513	1.73509	3.470
M	43 Merphos				368778	1.94558	3.891

QC Flag Legend

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: 039F3901.D
Lab Smp Id: LLVJ01AD
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 06-OCT-2009
Calibration Time: 23:21
Client Smp ID: LCSD
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	290754	145377	581508	459518	58.04
39 TOCP	198800	99400	397600	285526	43.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.09
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LLVJ01AD
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Client SDG: D9J010000
Fraction: SV
Client Smp ID: LCSD
Operator: TLW
SampleType: LCSD
Quant Type: ISTD

		SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1	o,o,o-TEPT	4.000	4.541	113.53	36-119
	2	Dichlorvos	4.000	3.974	99.36	50-120
	3	Mevinphos	4.000	2.640	66.00	35-108
$	4	Chlormefos	2.000	2.164	108.19	48-114
	5	Thionazin	4.000	3.782	94.54	65-116
	6	Demeton-O	2.792	3.184	114.04	36-119
	7	Ethoprop	4.000	3.882	97.05	65-108
	8	Naled	4.000	3.243	81.09	36-119
	10	Sulfotepp	4.000	3.388	84.70	69-103
	11	Phorate	4.000	3.035	75.89	62-104
	12	Dimethoate	4.000	2.982	74.54	28-115
	13	Demeton-S	1.208	0.2863	23.70*	36-119
	14	Simazine	4.000	3.434	85.86	47-109
	15	Atrazine	4.000	3.241	81.03	36-119
	16	propazine	4.000	3.294	82.34	36-119
	17	Disulfoton	4.000	3.587	89.67	61-103
	18	Diazinon	4.000	3.907	97.69	36-119
	19	Methyl Parathion	4.000	3.822	95.55	68-119
	20	Ronnel	4.000	3.557	88.93	62-115
	21	Malathion	4.000	3.892	97.30	67-115
	22	Fenthion	4.000	3.573	89.33	36-119
	23	Parathion	4.000	3.572	89.30	36-119
	24	Chlorpyrifos	4.000	4.015	100.37	66-101
	25	Trichloronate	4.000	3.274	81.86	36-119
	26	Anilazine	4.000	1.249	31.22*	47-115
	28	Tetrachlorvinphos	4.000	3.372	84.31	36-119
	29	Tokuthion	4.000	3.783	94.58	36-119
	31	Carbophenothion-me	4.000	3.489	87.22	36-119
	32	Fensulfothion	4.000	3.640	90.99	61-115
	33	Bolstar / Famphur	8.000	8.017	100.21	36-119
	34	Carbophenothion	4.000	3.723	93.07	50-150
$	35	Triphenyl phosphat	2.000	2.010	100.52	50-150
	36	Phosmet	4.000	4.062	101.54	50-150
	37	EPN	4.000	4.002	100.06	36-119
	38	Azinphos-methyl	4.000	3.566	89.16	55-115
	40	Azinphos-ethyl	4.000	3.679	91.97	36-119
	41	Coumaphos	4.000	3.674	91.86	62-115
M	42	Total Demeton	4.000	3.470	86.75	47-115
M	43	Merphos	4.000	3.891	97.28	36-119

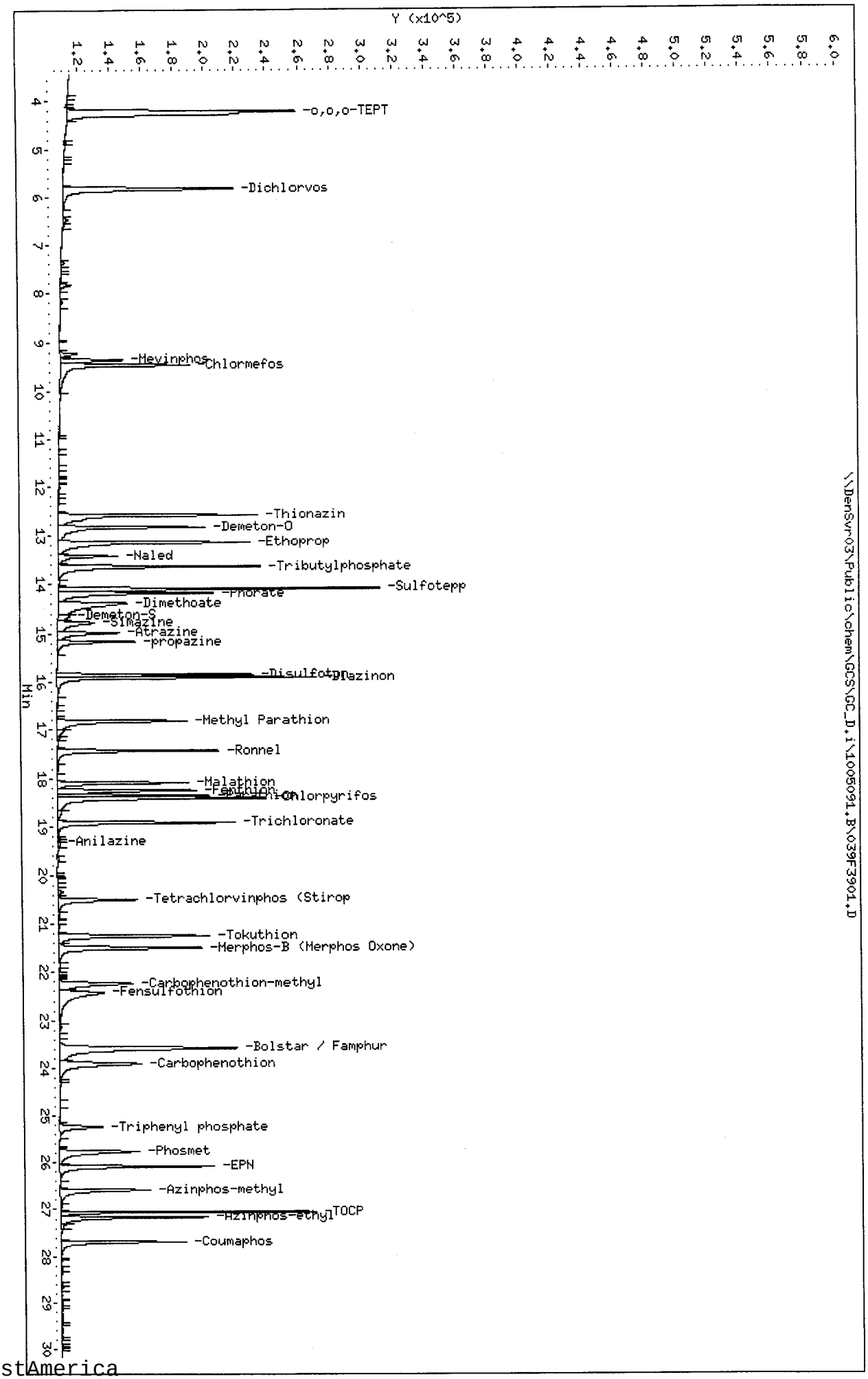
TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LLVJ01AD
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Client SDG: D9J010000
Fraction: SV
Client Smp ID: LCSD
Operator: TLW
SampleType: LCSD
Quant Type: ISTD

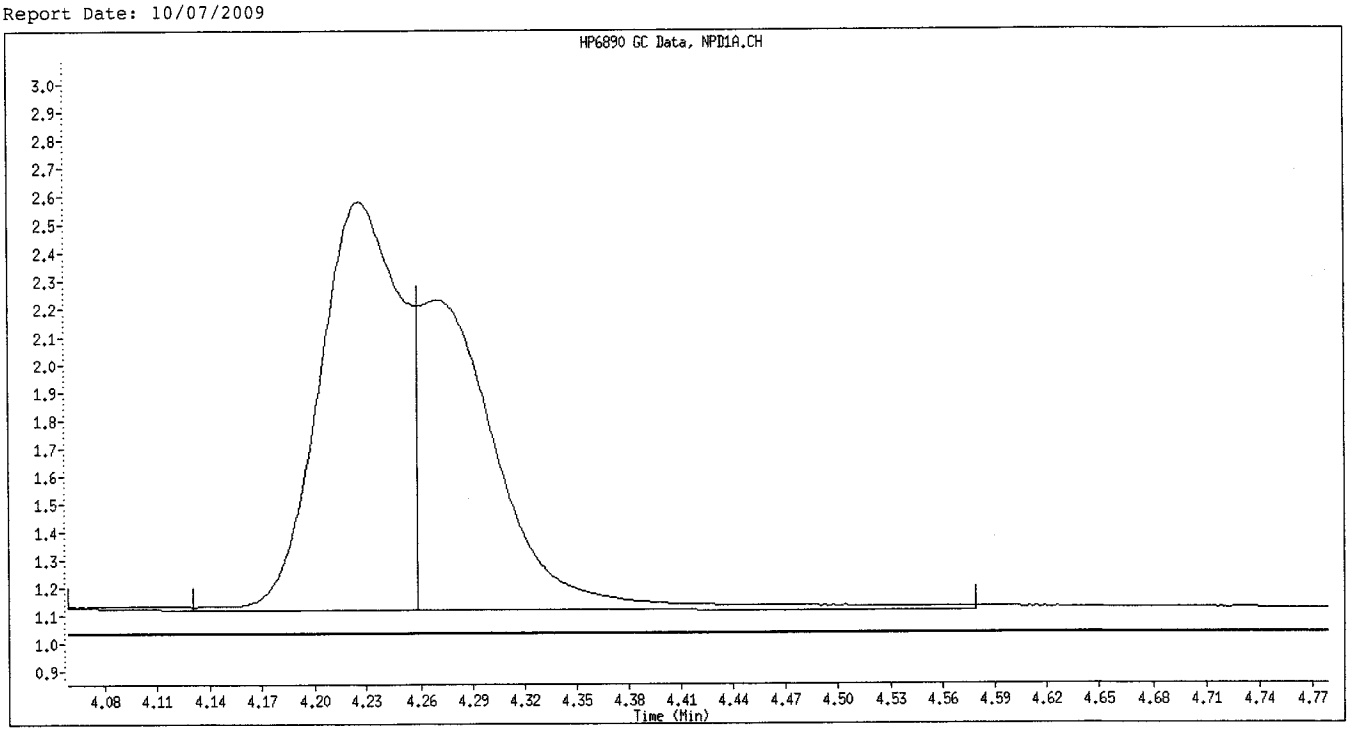
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	2.000	2.164	108.19	48-114
$ 35 Triphenyl phosphat	2.000	2.010	100.52	50-150



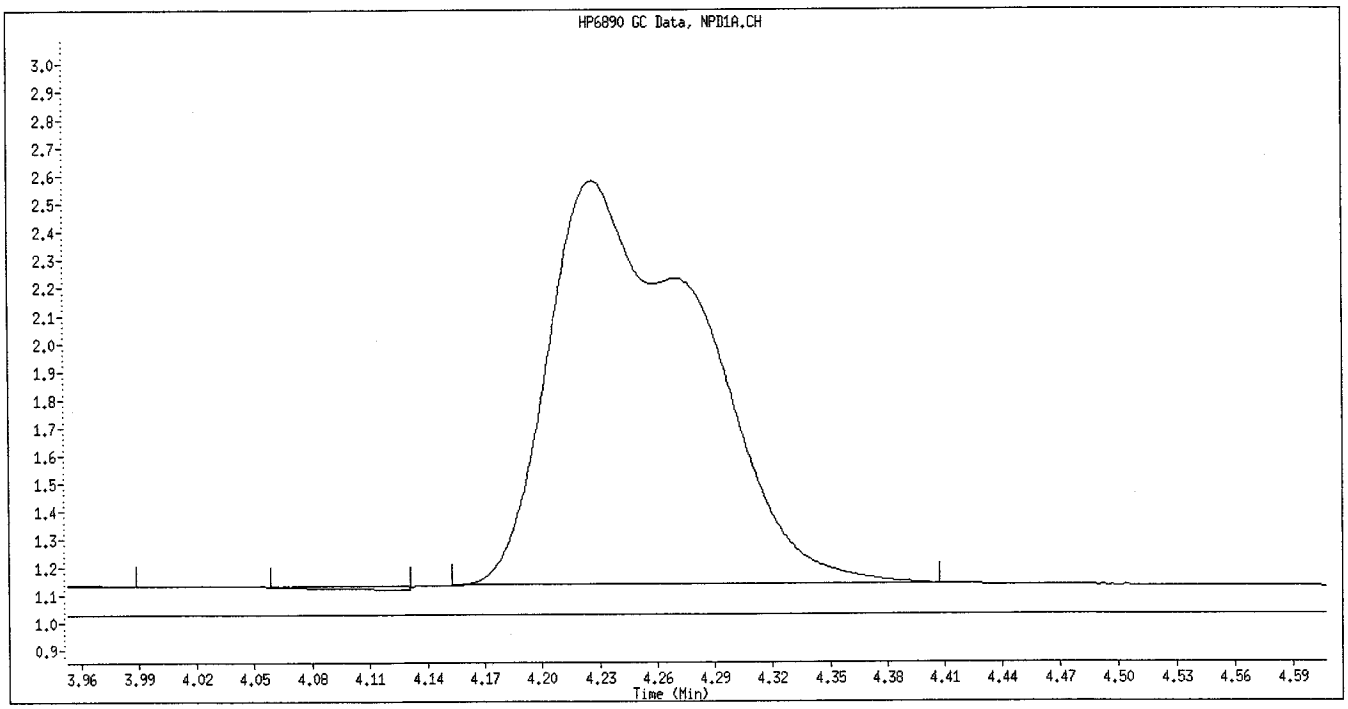
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\1005091,B\039F3901.D
Date : 06-OCT-2009 16:04
Client ID: LCSD
Sample Info: LLWJ01AD,LCSD
Column phase: RTx-1MS

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 039F3901.D
Inj. Date and Time: 06-OCT-2009 16:04
Instrument ID: GC_D.i
Client ID: LCSD
Compound Name: o,o,o-TEPT
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\039F3901.D
Lab Smp Id: LLVJ01AD Client Smp ID: LCSD
Inj Date : 06-OCT-2009 16:04
Operator : TLW Inst ID: GC_D.i
Smp Info : LLVJ01AD,LCSD
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 39 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)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	6.714	6.724	(0.416)	463363	2.06568	4.131
	2 Dichlorvos	8.901	8.899	(0.551)	312847	1.95875	3.918
$	3 Chlormefos	12.834	12.830	(0.795)	135264	0.88543	1.771
	4 Mevinphos	12.955	12.944	(0.802)	126807	1.32169	2.643
	5 Demeton-O	15.899	15.894	(0.985)	154058	1.62248	3.245
	6 Thionazin	16.027	16.019	(0.993)	261917	1.89558	3.791
*	7 Tributylphosphate	16.147	16.139	(1.000)	267846	2.00000	
	8 Ethoprop	16.289	16.282	(1.009)	274001	1.59301	3.186
	9 Naled	16.875	16.866	(1.045)	76597	1.58120	3.162
	10 Sulfotepp	17.188	17.181	(1.064)	329815	1.70603	3.412(M)
	11 Phorate	17.214	17.219	(1.066)	193753	1.46990	2.940(M)
	12 Demeton-S	17.919	17.906	(1.110)	6265	0.08221	0.1644(R)
	13 Simazine	18.330	18.319	(1.135)	47206	1.99165	3.983
	14 Atrazine / Propazine	18.393	18.384	(1.139)	167682	3.29812	6.596
	15 Dimethoate	18.525	18.510	(1.147)	198019	1.44679	2.894
	16 Diazinon	18.918	18.910	(1.172)	223776	1.68708	3.374
	17 Disulfoton	19.182	19.173	(1.188)	220266	1.63729	3.274
	18 Methyl Parathion	21.083	21.074	(0.735)	180468	1.87076	3.742
	19 Ronnel	21.169	21.160	(0.738)	243119	2.03526	4.070
	20 Malathion	22.427	22.420	(0.782)	149070	1.72787	3.456
	21 Chlorpyrifos	22.587	22.576	(0.787)	201893	1.81971	3.639
	22 Trichloronate	22.760	22.749	(0.793)	189720	1.61048	3.221

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.808	22.801	(0.795)	213616	1.97791	3.956
	24 Fenthion	22.879	22.869	(0.798)	244674	1.81639	3.633
	25 Merphos-A (Merphos)	Compound Not Detected.					
	26 Anilazine	24.408	24.386	(0.851)	7030	0.93672	1.873(R)
	27 Tetrachlorvinphos (stirophos)	25.829	25.821	(0.900)	123499	1.71249	3.425
	28 Tokuthion	26.011	26.004	(0.907)	211337	1.83648	3.673
	29 Merphos-B (Merphos oxone)	26.142	26.137	(0.911)	208832	2.06707	4.134
	30 Carbophenothion methyl	26.978	26.973	(0.941)	156515	1.82563	3.651
	31 Fensulfothion	27.215	27.209	(0.949)	129692	1.72618	3.452
	32 Bolstar	27.326	27.322	(0.953)	203739	2.01461	4.029
	33 Carbophenothion	27.440	27.436	(0.957)	166157	1.88977	3.780
	34 Famphur	27.624	27.620	(0.963)	169779	1.94309	3.886
$	35 Triphenyl phosphate	27.914	27.912	(0.973)	83198	1.10605	2.212
	36 EPN	28.222	28.219	(0.984)	182283	1.96458	3.929
	37 Phosmet	28.349	28.345	(0.988)	164830	2.06200	4.124
*	38 TOCP	28.684	28.680	(1.000)	191486	2.00000	
	39 Azinphos-methyl	28.797	28.792	(1.004)	136124	1.77742	3.555
	40 Azinphos-ethyl	29.107	29.102	(1.015)	154344	1.91126	3.822
	41 Coumaphos	29.433	29.428	(1.026)	137461	1.80735	3.615
M	42 Total Demeton				160323	1.70469	3.409
M	43 Merphos				208832	1.60418	3.208

QC Flag Legend

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: 039F3901.D
Lab Smp Id: LLVJ01AD
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: LCSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	267846	28.88
38 TOCP	159861	79931	319722	191486	19.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.06
38 TOCP	28.68	28.18	29.18	28.68	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.

TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LLVJ01AD
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Client SDG: D9J010000
Fraction: SV
Client Smp ID: LCSD
Operator: TLW
SampleType: LCSD
Quant Type: ISTD

		SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1	o,o,o-TEPT	4.000	4.131	103.28	36-119
	2	Dichlorvos	4.000	3.918	97.94	50-120
$	3	Chlormefos	2.000	1.771	88.54	48-114
	4	Mevinphos	4.000	2.643	66.08	35-108
	5	Demeton-O	2.800	3.245	115.89	36-119
	6	Thionazin	4.000	3.791	94.78	65-116
	8	Ethoprop	4.000	3.186	79.65	65-108
	9	Naled	4.000	3.162	79.06	36-119
	10	Sulfotepp	4.000	3.412	85.30	69-103
	11	Phorate	4.000	2.940	73.49	62-104
	12	Demeton-S	1.200	0.1644	13.70*	36-119
	13	Simazine	4.000	3.983	99.58	47-109
	14	Atrazine / Propazi	8.000	6.596	82.45	36-119
	15	Dimethoate	4.000	2.894	72.34	28-115
	16	Diazinon	4.000	3.374	84.35	36-119
	17	Disulfoton	4.000	3.274	81.86	61-103
	18	Methyl Parathion	4.000	3.742	93.54	68-119
	19	Ronnel	4.000	4.070	101.76	62-115
	20	Malathion	4.000	3.456	86.39	67-115
	21	Chlorpyrifos	4.000	3.639	90.99	66-101
	22	Trichloronate	4.000	3.221	80.52	36-119
	23	Parathion	4.000	3.956	98.90	36-119
	24	Fenthion	4.000	3.633	90.82	36-119
	26	Anilazine	4.000	1.873	46.84*	47-115
	27	Tetrachlorvinphos	4.000	3.425	85.62	36-119
	28	Tokuthion	4.000	3.673	91.82	36-119
	30	Carbophenothion me	4.000	3.651	91.28	36-119
	31	Fensulfothion	4.000	3.452	86.31	61-115
	32	Bolstar	4.000	4.029	100.73	36-119
	33	Carbophenothion	4.000	3.780	94.49	36-119
	34	Famphur	4.000	3.886	97.15	36-119
$	35	Triphenyl phosphat	2.000	2.212	110.60	36-119
	36	EPN	4.000	3.929	98.23	36-119
	37	Phosmet	4.000	4.124	103.10	36-119
	39	Azinphos-methyl	4.000	3.555	88.87	55-115
	40	Azinphos-ethyl	4.000	3.822	95.56	36-119
	41	Coumaphos	4.000	3.615	90.37	62-115
M	42	Total Demeton	4.000	3.409	85.23	47-115
M	43	Merphos	4.000	3.208	80.21	36-119

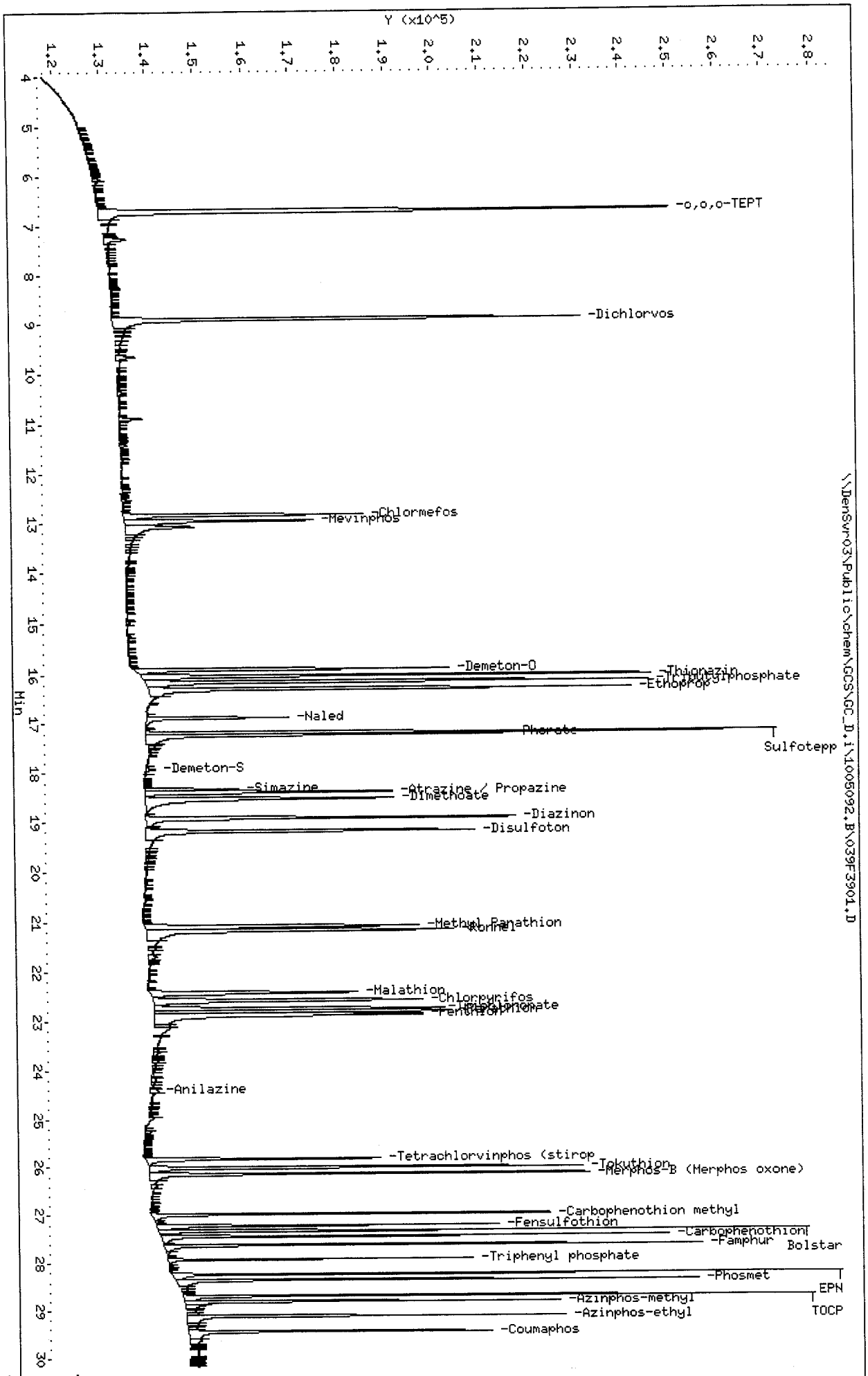
TestAmerica

RECOVERY REPORT

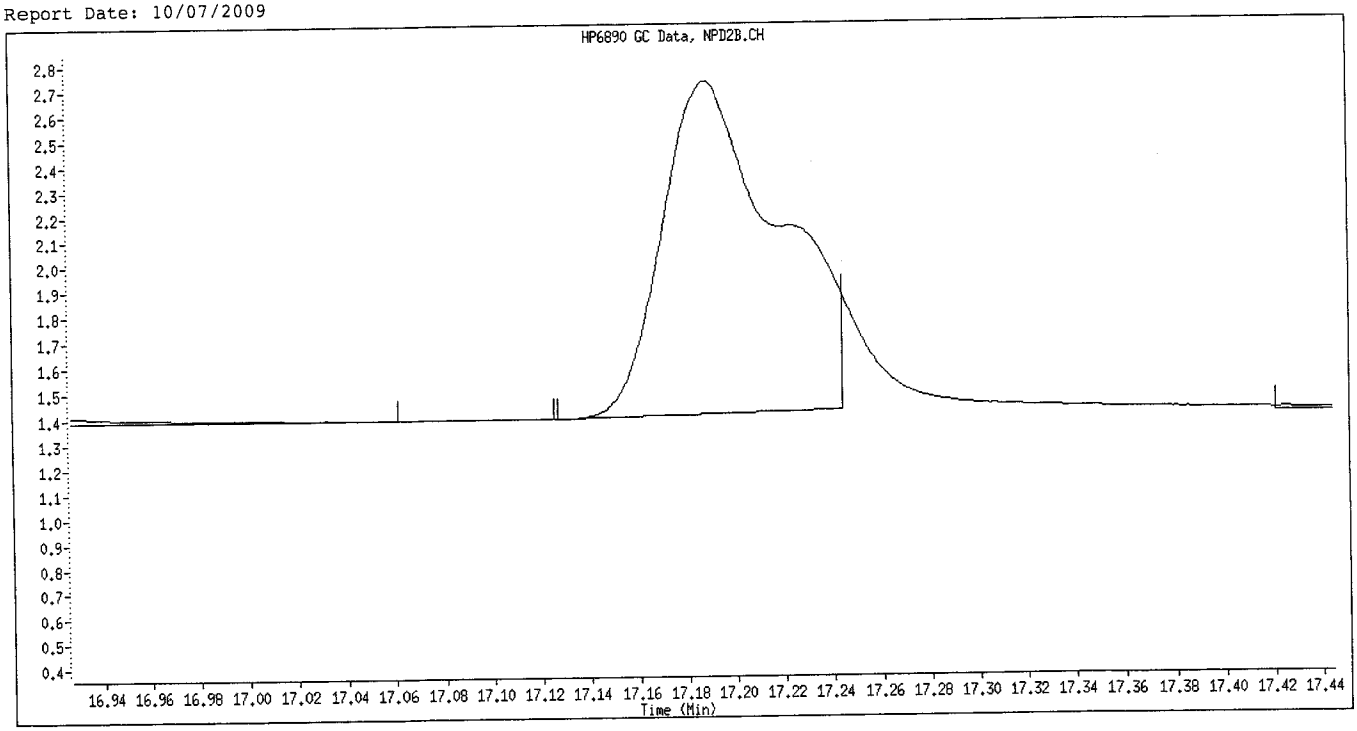
Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LLVJ01AD
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Client SDG: D9J010000
Fraction: SV
Client Smp ID: LCSD
Operator: TLW
SampleType: LCSD
Quant Type: ISTD

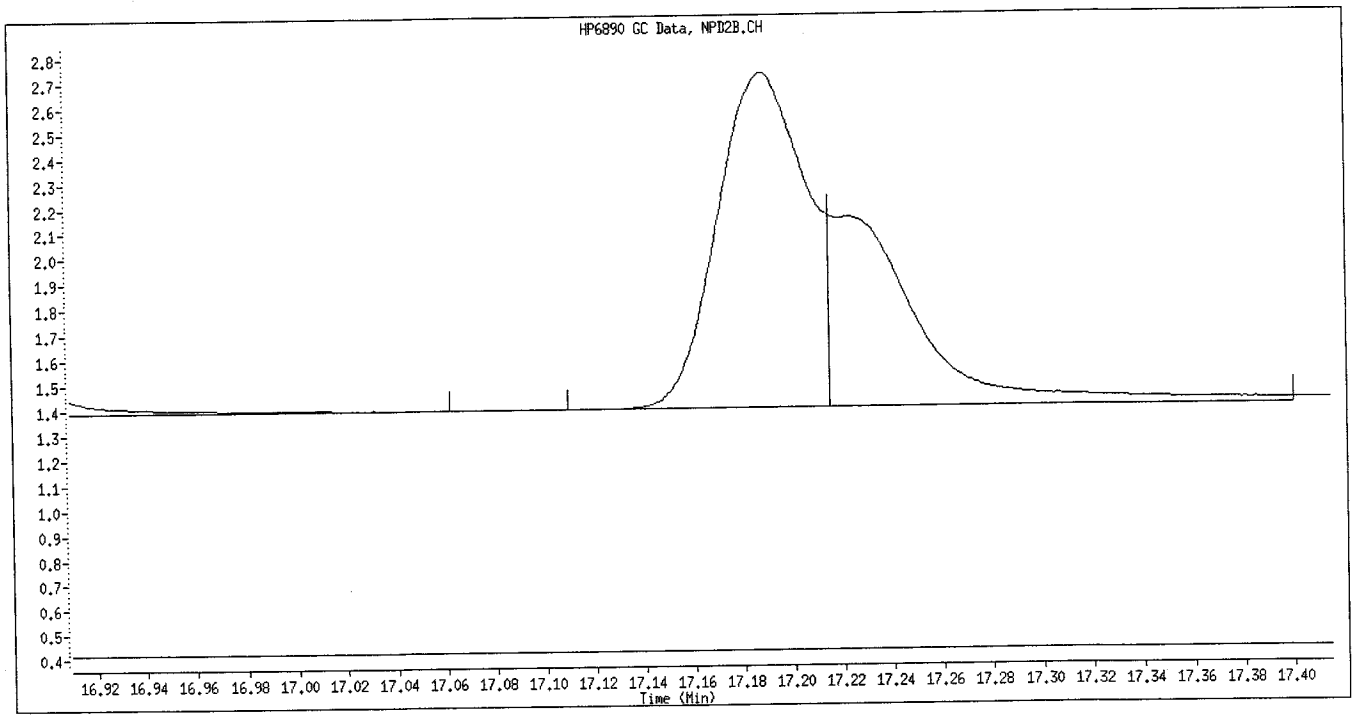
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	2.000	1.771	88.54	48-114
$ 35 Triphenyl phosphat	2.000	2.212	110.60	50-150


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\1005092.B\039F3901.D
Date : 06-OCT-2009 16:04
Client ID: LCSD
Sample Info: LLVJ01AD,LCSD
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\1005092.B\039F3901.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Thionazin
-Tributylphosphate
-Ethoprop
-Naled
-Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Fenthion
-Anilazine
-Tetrachlorvinphos (stirop
-Iprobenfos
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Carbophenothion
-Famphur
Bolstar
-Triphenyl phosphate
-Phosmet
EPN
-Azinphos-methyl
-Azinphos-ethyl
TOCP
-Coumaphos

Data File Name: 039F3901.D
Inj. Date and Time: 06-OCT-2009 16:04
Instrument ID: GC_D.i
Client ID: LCSD
Compound Name: Sulfotepp
CAS #:
Report Date: 10/07/2009



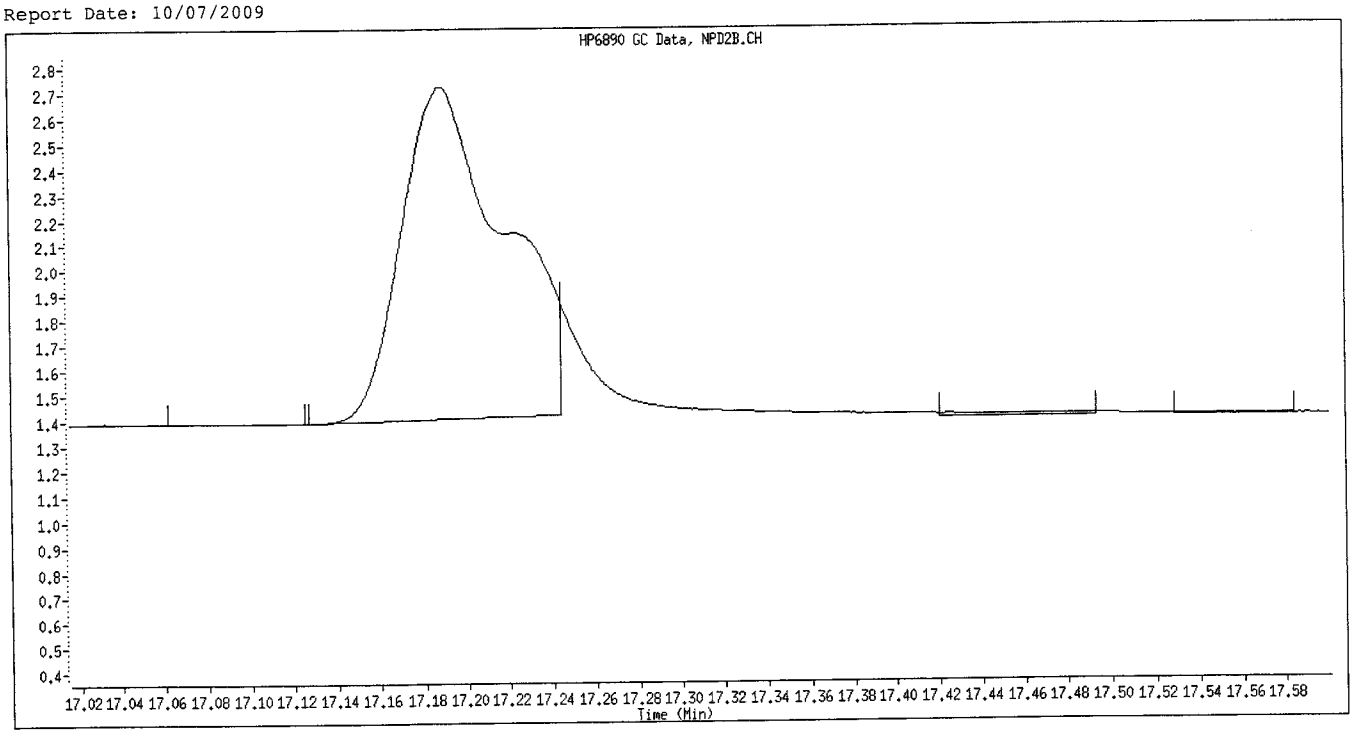
Original Integration



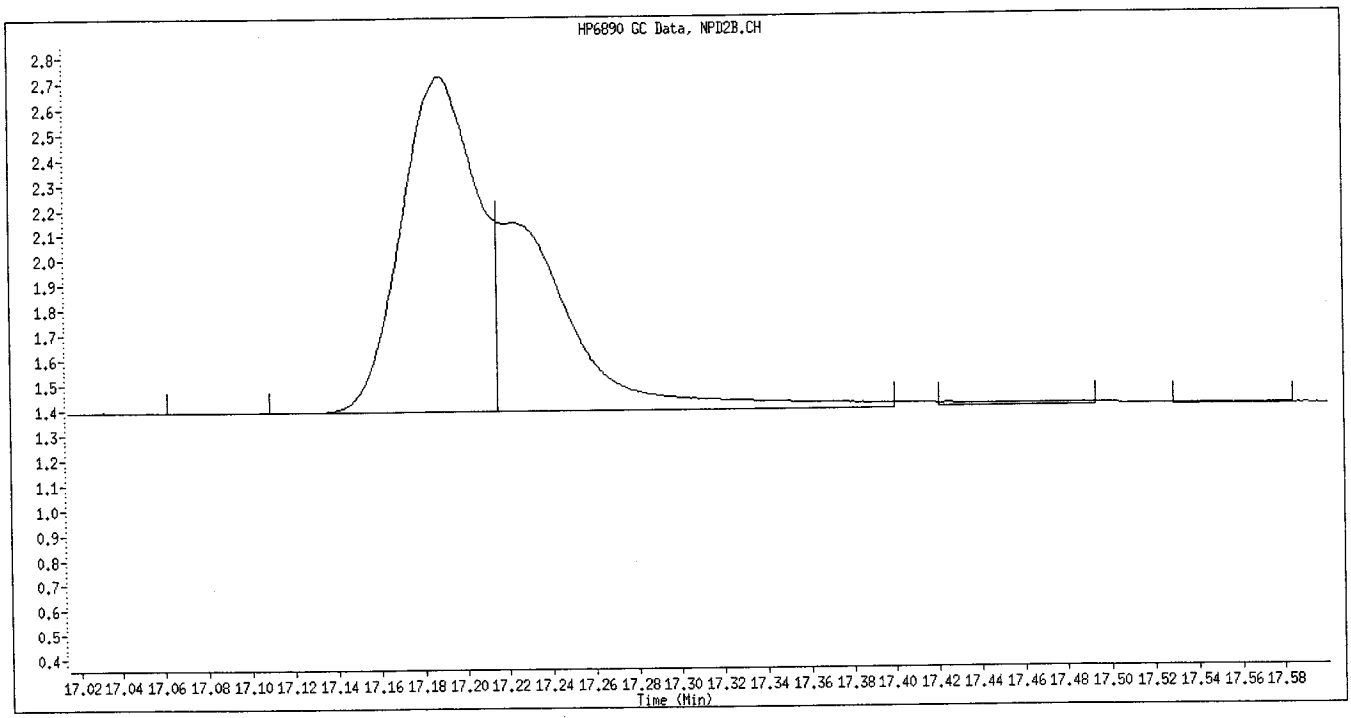
Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Data File Name: 039F3901.D
Inj. Date and Time: 06-OCT-2009 16:04
Instrument ID: GC_D.i
Client ID: LCSD
Compound Name: Phorate
CAS #:
Report Date: 10/07/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\040F4001.D
Lab Smp Id: LLTKN1AA Client Smp ID: TR-4B
Inj Date : 06-OCT-2009 16:41
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKN1AA,204-1
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
	3 Mevinphos	9.387	9.342	(0.687)	146	0.16674	0.3155
$	4 Chlormefos	9.462	9.462	(0.693)	196529	0.78026	1.476
	5 Thionazin	Compound Not Detected.					
	6 Demeton-O	Compound Not Detected.					
	7 Ethoprop	Compound Not Detected.					
	8 Naled	Compound Not Detected.					
*	9 Tributylphosphate	13.663	13.639	(1.000)	357064	2.00000	
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Dimethoate	Compound Not Detected.					
	13 Demeton-S	Compound Not Detected.					
	14 Simazine	Compound Not Detected.					
	15 Atrazine	Compound Not Detected.					
	16 propazine	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Diazinon	Compound Not Detected.					
	19 Methyl Parathion	Compound Not Detected.					
	20 Ronnel	Compound Not Detected.					
	21 Malathion	Compound Not Detected.					
	22 Fenthion	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	18.383	18.355	(0.679)	290	0.19777	0.3742 NC
	24 Chlorpyrifos	Compound Not Detected.					
	25 Trichloronate	Compound Not Detected.					
	26 Anilazine	Compound Not Detected.					
	27 Merphos-A (Merphos)	19.799	19.757	(0.732)	191	0.65347	1.236
	28 Tetrachlorvinphos (Stirophos)	Compound Not Detected.					
	29 Tokuthion	Compound Not Detected.					
	30 Merphos-B (Merphos Oxone)	Compound Not Detected.					
	31 Carbophenothion-methyl	Compound Not Detected.					
	32 Fensulfothion	Compound Not Detected.					
	33 Bolstar / Famphur	23.537	23.573	(0.870)	253	0.09237	0.1748
	34 Carbophenothion	Compound Not Detected.					
$	35 Triphenyl phosphate	25.260	25.224	(0.933)	105491	0.91289	1.727
	36 Phosmet	Compound Not Detected.					
	37 EPN	Compound Not Detected.					
	38 Azinphos-methyl	Compound Not Detected.					
*	39 TOCP	27.062	27.056	(1.000)	257946	2.00000	
	40 Azinphos-ethyl	Compound Not Detected.					
	41 Coumaphos	Compound Not Detected.					
M	42 Total Demeton	Compound Not Detected.					
M	43 Merphos				191	0.02611	0.04941

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 040F4001.D
Lab Smp Id: LLTKN1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-4B
Level: LOW
Sample Type: WATER
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	357064	25.72
39 TOCP	197231	98616	394462	257946	30.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.20
39 TOCP	27.06	26.56	27.56	27.06	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.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LLTKN1AA Client Smp ID: TR-4B
Level: LOW Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

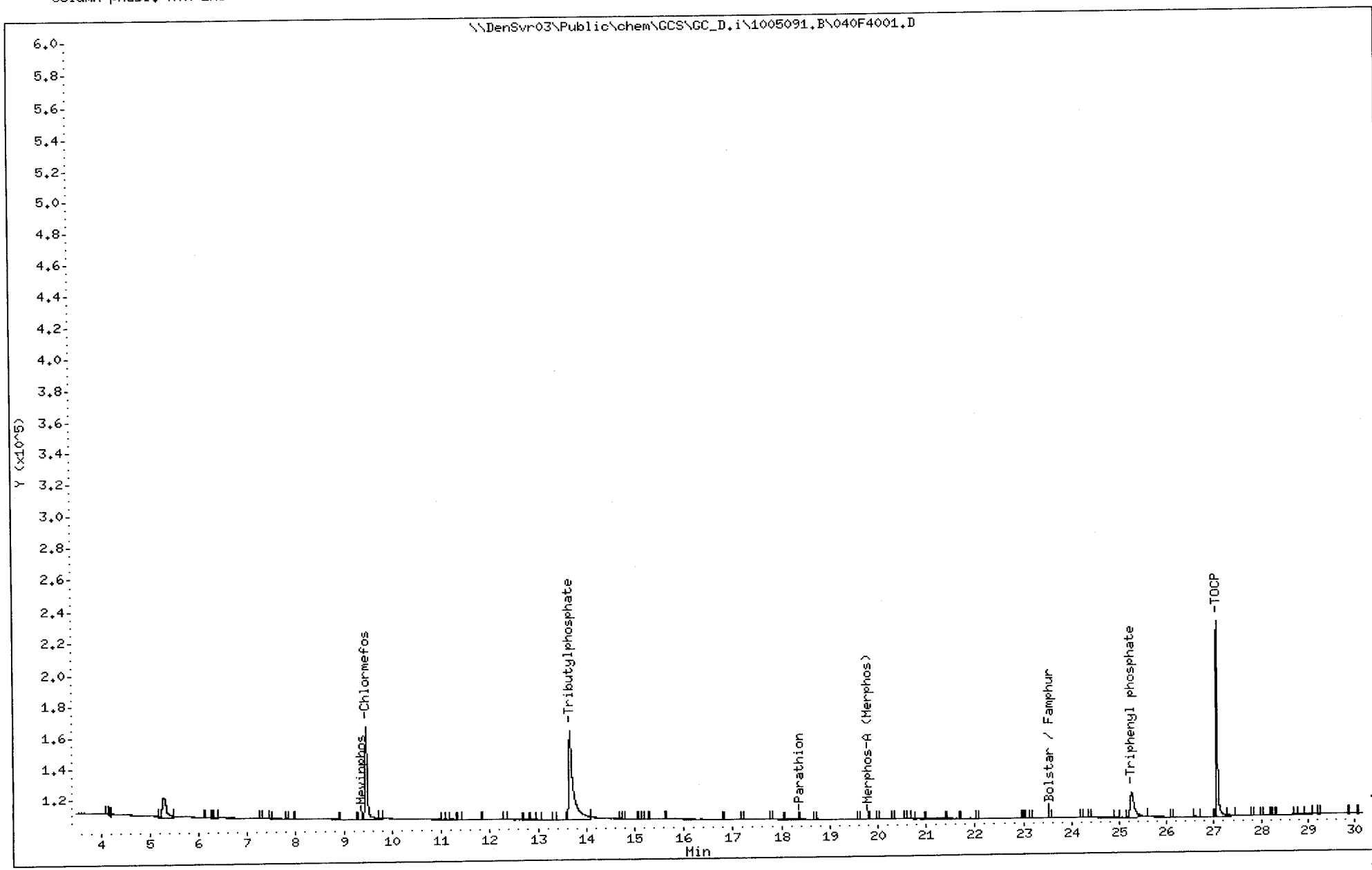
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	1.892	1.476	78.03	48-114
$ 35 Triphenyl phosphat	1.892	1.727	91.29	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\040F4001.D
Date : 06-OCT-2009 16:41
Client ID: TR-4B
Sample Info: LLTKN1AA,204-1

Instrument: GC_D.i

Operator: TLW
Column diameter: 0.32

Column phase: RTx-1MS



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TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\040F4001.D
Lab Smp Id: LLTKN1AA Client Smp ID: TR-4B
Inj Date : 06-OCT-2009 16:41
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKN1AA,204-1
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
$	3 Chlormefos	12.836	12.830	(0.795)	126300	0.93220	1.764
	4 Mevinphos	Compound Not Detected.					
	5 Demeton-O	Compound Not Detected.					
	6 Thionazin	Compound Not Detected.					
*	7 Tributylphosphate	16.153	16.139	(1.000)	237547	2.00000	
	8 Ethoprop	Compound Not Detected.					
	9 Naled	Compound Not Detected.					
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Demeton-S	17.911	17.906	(1.109)	670	0.03252	0.06153
	13 Simazine	Compound Not Detected.					
	14 Atrazine / Propazine	Compound Not Detected.					
	15 Dimethoate	18.533	18.510	(1.147)	281	0.11674	0.2209
	16 Diazinon	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Methyl Parathion	Compound Not Detected.					
	19 Ronnel	Compound Not Detected.					
	20 Malathion	22.400	22.420	(0.781)	102	0.03529	0.06677(a)
	21 Chlorpyrifos	Compound Not Detected.					
	22 Trichloronate	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	Compound Not Detected.					
	24 Fenthion	Compound Not Detected.					
	25 Merphos-A (Merphos)	23.433	23.403	(0.817)	227	0.75632	1.431
	26 Anilazine	Compound Not Detected.					
	27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
	28 Tokuthion	Compound Not Detected.					
	29 Merphos-B (Merphos oxone)	26.123	26.137	(0.911)	347	0.00362	0.006859(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	27.917	27.912	(0.973)	69985	0.98189	1.858
	36 EPN	Compound Not Detected.					
	37 Phosmet	Compound Not Detected.					
*	38 TOCP	28.683	28.680	(1.000)	181443	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: 040F4001.D
Lab Smp Id: LLTKN1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-4B
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	237547	14.30
38 TOCP	159861	79931	319722	181443	13.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.10
38 TOCP	28.68	28.18	29.18	28.68	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.

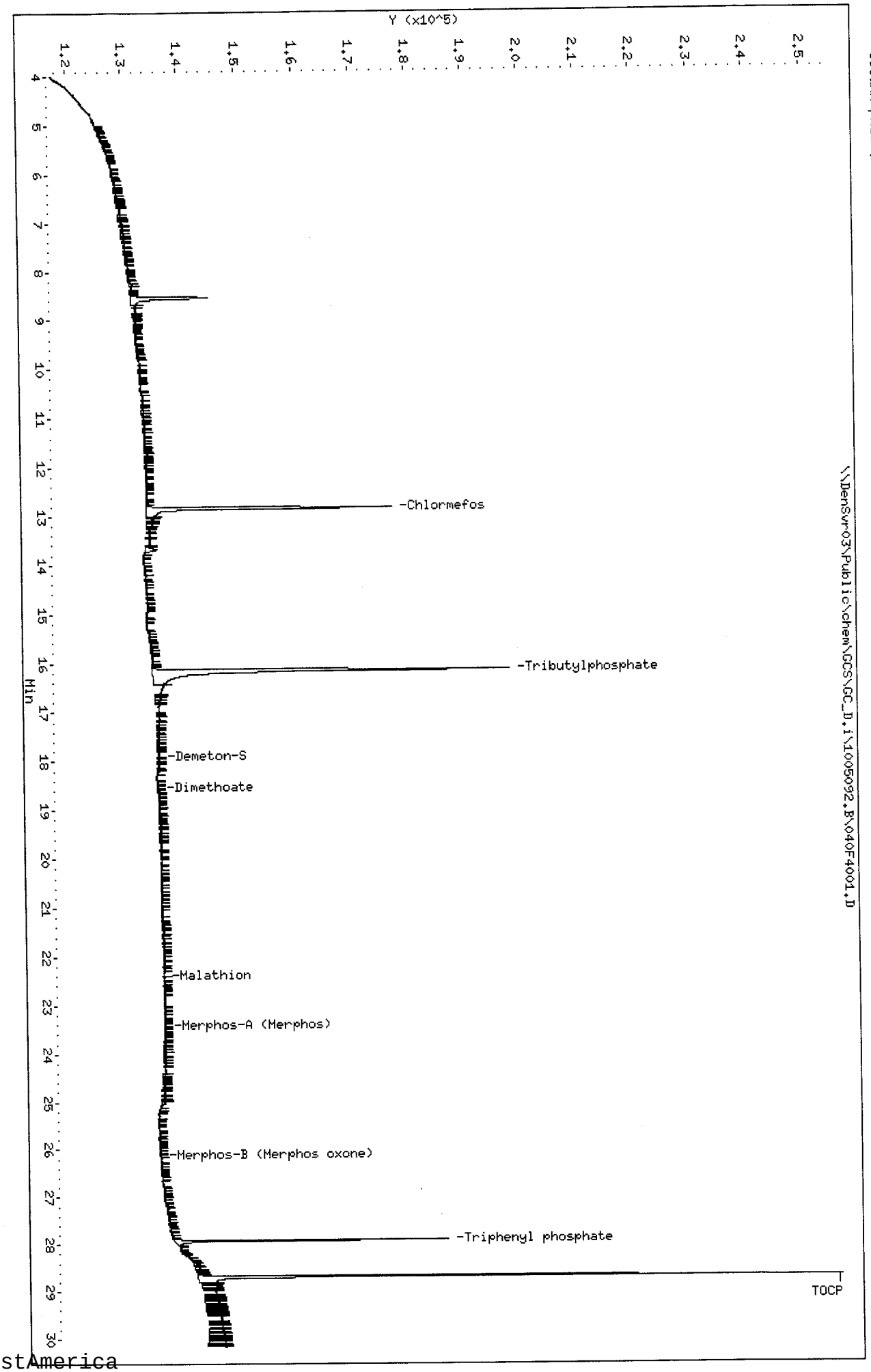
TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID
Lab Smp Id: LLTKN1AA
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

Fraction: SV
Client Smp ID: TR-4B
Operator: TLW
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	1.892	1.764	93.22	48-114
$ 35 Triphenyl phosphat	1.892	1.858	98.19	50-150


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\040F4001.D
Date : 06-OCT-2009 16:41
Client ID: TR-4B
Sample Info: LLTKNIAA,204-1
Column phase: RTx-OPPest
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\040F4001.D
Y (x10^5)
Min
-Chlormefos
-Tributylphosphate
-Demeton-S
-Dimethoate
-Malathion
-Merphos-A (Merphos)
-Merphos-B (Merphos oxone)
-Triphenyl phosphate
TCCP

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\041F4101.D
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Inj Date : 06-OCT-2009 17:17
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKX1AA,210-1
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Meth Date : 07-Oct-2009 09:17 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
1	o,o,o-TEPT	Compound Not Detected.					
2	Dichlorvos	Compound Not Detected.					
3	Mevinphos	9.322	9.342	(0.682)	308	0.16839	0.3198
$ 4	Chlormefos	9.459	9.462	(0.692)	159512	0.62716	1.191
5	Thionazin	12.579	12.576	(0.921)	393	0.09186	0.1745
6	Demeton-O	Compound Not Detected.					
7	Ethoprop	Compound Not Detected.					
8	Naled	Compound Not Detected.					
* 9	Tributylphosphate	13.663	13.639	(1.000)	360555	2.00000	
10	Sulfotepp	Compound Not Detected.					
11	Phorate	Compound Not Detected.					
12	Dimethoate	Compound Not Detected.					
13	Demeton-S	Compound Not Detected.					
14	Simazine	Compound Not Detected.					
15	Atrazine	Compound Not Detected.					
16	propazine	Compound Not Detected.					
17	Disulfoton	Compound Not Detected.					
18	Diazinon	Compound Not Detected.					
19	Methyl Parathion	Compound Not Detected.					
20	Ronnel	Compound Not Detected.					
21	Malathion	Compound Not Detected.					
22	Fenthion	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	Compound Not Detected.					
	24 Chlorpyrifos	Compound Not Detected.					
	25 Trichloronate	Compound Not Detected.					
	26 Anilazine	Compound Not Detected.					
	27 Merphos-A (Merphos)	19.779	19.757	(0.731)	377	0.65716	1.248
	28 Tetrachlorvinphos (Stirophos)	Compound Not Detected.					
	29 Tokuthion	Compound Not Detected.					
	30 Merphos-B (Merphos Oxone)	21.474	21.484	(0.794)	164	0.00125	0.002376
	31 Carbophenothion-methyl	Compound Not Detected.					
	32 Fensulfothion	Compound Not Detected.					
	33 Bolstar / Famphur	Compound Not Detected.					
	34 Carbophenothion	Compound Not Detected.					
$	35 Triphenyl phosphate	25.249	25.224	(0.933)	96673	0.85428	1.622
	36 Phosmet	25.724	25.743	(0.951)	281	0.06553	0.1245
	37 EPN	Compound Not Detected.					
	38 Azinphos-methyl	Compound Not Detected.					
*	39 TOCP	27.059	27.056	(1.000)	253528	2.00000	
	40 Azinphos-ethyl	Compound Not Detected.					
	41 Coumaphos	Compound Not Detected.					
M	42 Total Demeton	Compound Not Detected.					
M	43 Merphos				541	0.02818	0.05353

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 041F4101.D
Lab Smp Id: LLTKX1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-2B
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	284015	142008	568030	360555	26.95
39 TOCP	197231	98616	394462	253528	28.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.20
39 TOCP	27.06	26.56	27.56	27.06	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 Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Level: LOW Operator: 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\1005091.B\8141A-1.m
Misc Info: IS GSV1076-09

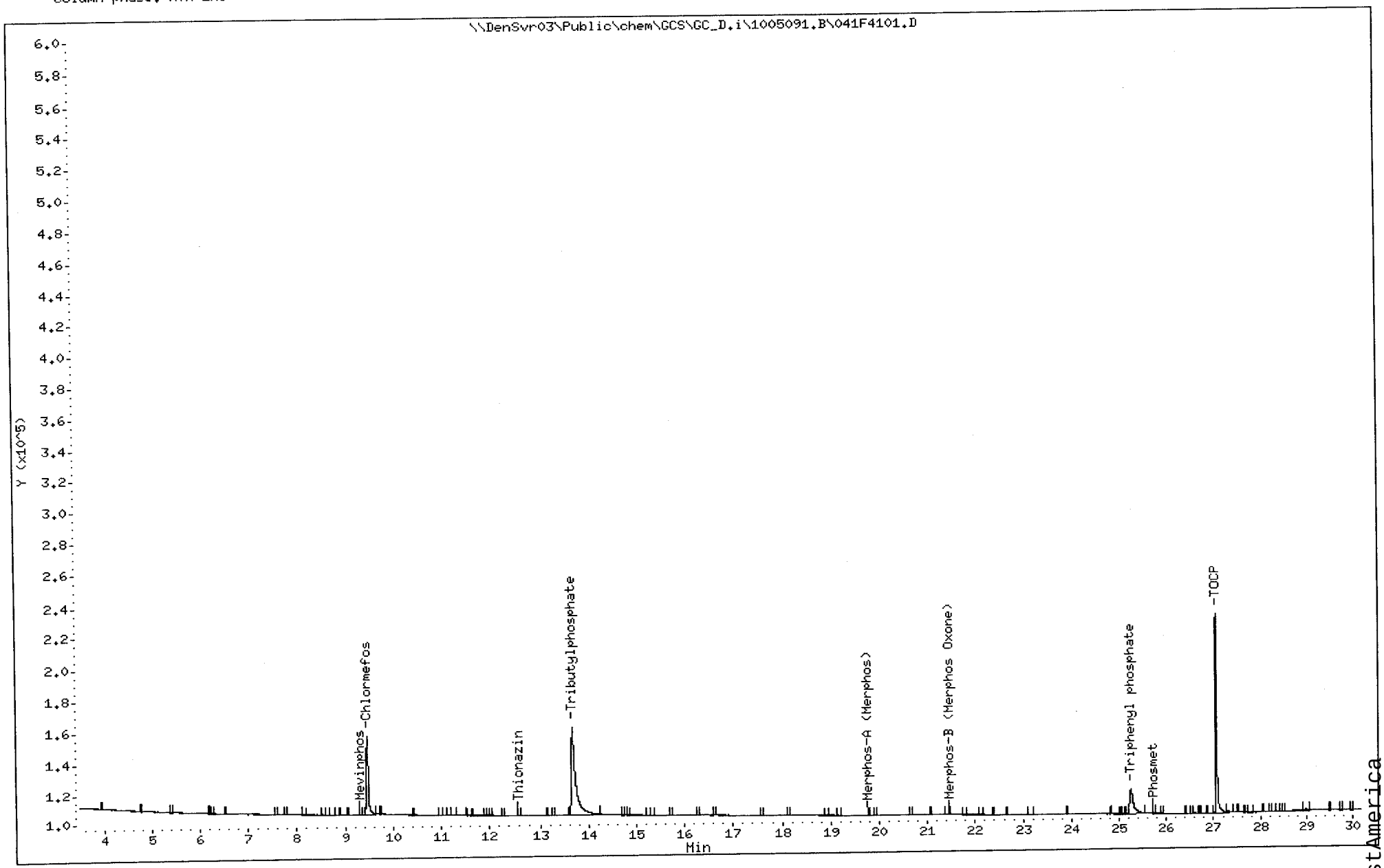
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Chlormefos	1.899	1.191	62.72	48-114
$ 35 Triphenyl phosphat	1.899	1.622	85.43	50-150

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005091.B\041F4101.D
Date : 06-OCT-2009 17:17
Client ID: TR-2B
Sample Info: LLTKX1AA,210-1

Instrument: GC_D.i

Operator: TLW
Column diameter: 0.32

Column phase: RTx-1MS



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TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\041F4101.D
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Inj Date : 06-OCT-2009 17:17
Operator : TLW Inst ID: GC_D.i
Smp Info : LLTKX1AA,210-1
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Meth Date : 07-Oct-2009 09:23 williamst Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

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

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

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	1 o,o,o-TEPT	Compound Not Detected.					
	2 Dichlorvos	Compound Not Detected.					
$	3 Chlormefos	12.834	12.830	(0.795)	104297	0.77808	1.478
	4 Mevinphos	Compound Not Detected.					
	5 Demeton-O	Compound Not Detected.					
	6 Thionazin	Compound Not Detected.					
*	7 Tributylphosphate	16.152	16.139	(1.000)	235019	2.00000	
	8 Ethoprop	Compound Not Detected.					
	9 Naled	16.861	16.866	(1.044)	2874	0.16766	0.3184
	10 Sulfotepp	Compound Not Detected.					
	11 Phorate	Compound Not Detected.					
	12 Demeton-S	Compound Not Detected.					
	13 Simazine	18.314	18.319	(1.134)	261	0.34392	0.6532
	14 Atrazine / Propazine	Compound Not Detected.					
	15 Dimethoate	18.524	18.510	(1.147)	240	0.11645	0.2212
	16 Diazinon	Compound Not Detected.					
	17 Disulfoton	Compound Not Detected.					
	18 Methyl Parathion	21.065	21.074	(0.734)	306	0.10340	0.1964(a)
	19 Ronnel	Compound Not Detected.					
	20 Malathion	22.417	22.420	(0.782)	424	0.03910	0.07427(a)
	21 Chlorpyrifos	Compound Not Detected.					
	22 Trichloronate	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	23 Parathion	22.830	22.801	(0.796)	393	0.06106	0.1160(a)
	24 Fenthion	Compound Not Detected.					
	25 Merphos-A (Merphos)	23.395	23.403	(0.816)	334	0.75809	1.440
	26 Anilazine	Compound Not Detected.					
	27 Tetrachlorvinphos (stirophos)	Compound Not Detected.					
	28 Tokuthion	Compound Not Detected.					
	29 Merphos-B (Merphos oxone)	26.156	26.137	(0.912)	299	0.00310	0.005880(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	27.916	27.912	(0.973)	63426	0.88194	1.675
	36 EPN	Compound Not Detected.					
	37 Phosmet	Compound Not Detected.					
*	38 TOCP	28.683	28.680	(1.000)	183074	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: 041F4101.D
Lab Smp Id: LLTKX1AA
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Calibration Date: 07-OCT-2009
Calibration Time: 04:47
Client Smp ID: TR-2B
Level: LOW
Sample Type: WATER
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	207830	103915	415660	235019	13.08
38 TOCP	159861	79931	319722	183074	14.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.10
38 TOCP	28.68	28.18	29.18	28.68	0.01

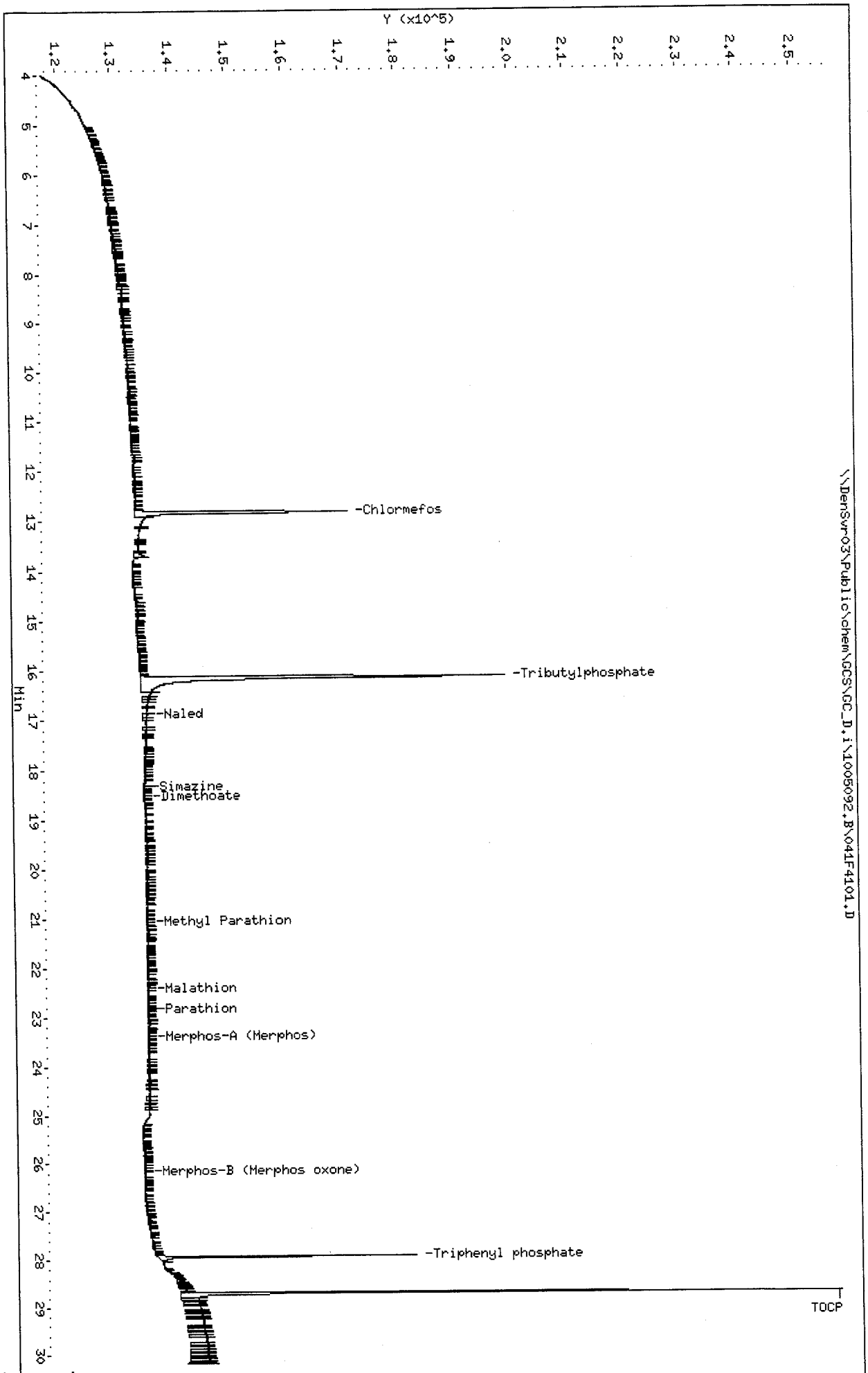
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-OCT-2009 00:00 Client SDG: D9J0102
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LLTKX1AA Client Smp ID: TR-2B
Level: LOW Operator: 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\1005092.B\8141A-2.m
Misc Info: IS GSV1076-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 Chlormefos	1.899	1.478	77.81	48-114
$ 35 Triphenyl phosphat	1.899	1.675	88.19	50-150


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\1005092.B\041F4101.D
Date : 06-OCT-2009 17:17
Client ID: TR-2B
Sample Info: LLTKX1AA,210-1
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\1005092.B\041F4101.D
Y (x10^5)
Min
-Chlormefos
-Tributylphosphate
-Naled
-Simazine
-Dimethoate
-Methyl Parathion
-Malathion
-Parathion
-Merphos-A (Merphos)
-Merphos-B (Merphos oxone)
-Triphenyl phosphate
TOCP

GC SEMIVOLATILE
INITIAL CALIBRATION DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC and HPLC ICAL Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

608 8081 8082 8151 (8141)
TPH/DRO Other SV 614
8310 8330 Other HPLC_____

601 602 8021 BTEX
TPH/GRO Other Volatile GC_____

Calibration Date: 092909
Instrument ID: D

Review Items	--- Level 1 --- Yes	No	N/A	Level 2	Comments
Initial Calibration					
1. Are correct data files used?	✓			✓	
2. Is there a sufficient number of calibration points used?	✓			✓	
3. Are reasons for removal of points documented?	✓			✓	Better linearity or not detected
4. Is linearity acceptable, 8000 Series: linear least-squares regression with r ≥ 0.990, (DOD projects require r ≥ 0.995) quadratic fit COD r^2> 0.990, or average response factors with RSD ≤ 20%? 600 Series: < 10% RSD or linear regression	✓			✓	
5. Are the correct RT windows applied to the ICAL integration?	✓			✓	
6. Are DDT & Endrin breakdown < 15%?			✓	NA	
7. Is each manual integration completely documented, signed and appropriate?	✓			✓	
8. Is traceability of standards properly documented?	✓			✓	
9. Was second level hand calculation performed? (document analyte checked)	-----	-----	-----	✓	
10. Was second-source ICV performed & recovery 85-115%?		✓		✓	Primary Include %R Mevinphos -30.8%, Phorate -18.5%, Anilazine -32.6%, Carbophenothion-methyl -38.0% Secondary Include %R Mevinphos -21.7%, Anilazine -42.1%, Carbophenothion-methyl -36.6%

1st Level Reviewer: Debra L. Williams Date: 9/30/09
2nd Level Reviewer: JG Date: 9/30/09

\SEQUENCE\D092909.S

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 GSV1077				
4	Vial 4	8141 L6 GSV1078				
5	Vial 5	8141 L5 GSV1079				
6	Vial 6	8141 L4 GSV1080				
7	Vial 7	8141 L3 GSV1081				
8	Vial 8	8141 L2 GSV1082				
9	Vial 9	8141 L1 GSV1083				
10	Vial 10	8141 SS GSV~~1084~~ 1107				
11	Vial 11	LKXKM1AA,MB				
12	Vial 12	LKXKM1AC,LCS				
13	Vial 13	LKXKM1AD,LCSD				
14	Vial 14	LKVW31A1,125-1				
15	Vial 15	LLF2T1AA,MB				
16	Vial 16	LLF2T1AC,LCS				
17	Vial 17	LK1TV1AC,309-1				
18	Vial 18	LK1TV1AE,309-1S				
19	Vial 19	LK1TV1AF,309-1D				
20	Vial 20	LK1T41AC,309-2				
21	Vial 21	LLF2R1AA,MB				
22	Vial 22	LLF2R1AC,LCS				
23	Vial 23	LK1TV1AD,309-1				
24	Vial 24	LK1TV1AJ,309-1S				
25	Vial 25	LK1TV1AK,309-1D				
26	Vial 26	LK1T41AD,309-2				
27	Vial 27	8141 CCV GSV1085				
28	Vial 28	LK48L1AA,MB				
29	Vial 29	LK48L1AC,LCS				
30	Vial 30	LKV851AA,173-1				
31	Vial 31	LKV9A1AA,173-2				
32	Vial 32	LKV9C1AA,173-3				
33	Vial 33	LK1V21AA,312-1				
34	Vial 34	LK1WH1AA,312-2				
35	Vial 35	LK1WL1AA,312-3				
36	Vial 36	8141 CCV GSV1085				
37	Vial 37	LK32J1AA,225-1				
38	Vial 38	LK32M1AA,225-2				
39	Vial 39	LK32M1AD,225-2S				
40	Vial 40	LK32M1AE,225-2D				
41	Vial 41	LK32W1AA,225-3				
42	Vial 42	8141 CCV GSV1085				
43	Vial 43	8141 L1 GSV1083				
44	Vial 44	LLK3J1AA,MB				
45	Vial 45	LLK3J1AC,LCS				
46	Vial 46	LK51E1AA,182-1				
47	Vial 47	LK51G1AA,182-2				
48	Vial 48	LK51G1AD,182-2S				
49	Vial 49	LK51G1AE,182-2D				
50	Vial 50	LK51H1AA,182-3				
51	Vial 51	LK9DD1AA,250-1				
52	Vial 52	LK9DE1AA,250-2				
53	Vial 53	LK9DM1AA,251-1				
54	Vial 54	8141 CCV GSV1085				
55	Vial 55	LK9DR1AA,251-2				
56	Vial 56	LK9DW1AA,251-3				
57	Vial 57	LK9D21AA,251-4				
58	Vial 58	LLEX71AA,243-1				
59	Vial 59	LLEX91AA,243-2				

9259804

9263577

9263576

9262069

9270024

\SEQUENCE\D092909.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	LLE0A1AA,243-3				
61	Vial 61	LLE0D1AA,243-4				
62	Vial 62	LLH341AA,285-1				
63	Vial 63	LLH351AA,285-2				
64	Vial 64	8141 CCV GSV1085				
65	Vial 65	8141 L1 GSV1083				

Sequence Table (Back Injector):

No entries - empty table!

Report Date : 30-Sep-2009 08:31

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
1 o,o,o-TEPT	1.63582	1.46357	1.69904	1.49231	1.55334	1.44588					
	1.33471						AVRG		1.51781		8.08371
2 Dichlorvos	1.09804	1.00105	1.14275	1.03578	1.13071	1.11714					
	1.09964						AVRG		1.08930		4.76749
3 Mevinphos	5844	34212	104479	248213	402659	602352					
	819859						WLINR	0.08261	0.53929		0.99057
5 Thionazin	26137	125634	280712	563076	833121	1175630					
	1528441						WLINR	0.04498	1.14087		0.99227

*All weighted linear $1/x^2$

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

Compound	0.2000000 Level 1 / 5.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	3.0000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
6 Demeton-O	8888 / 434270	43142	84853	165026	243630	345285	WLINR	0.00318	0.96138		0.99165
7 Ethoprop	39547 / 1475254	126916	278033	553642	815624	1147081	WLINR	0.01618	1.07726		0.99457
8 Naled	5310 / 571005	29826	78159	178502	292094	423022	WLINR	0.07277	0.38445		0.99629
10 Sulfotepp	1.53870 / 1.25989	1.45506	1.61167	1.41213	1.42888	1.35179	AVRG		1.43687		8.06106
11 Phorate	65747 / 1353850	152671	291306	533826	765652	1060353	WLINR	-0.07478	0.92708		0.99400
12 Dimethoate	+++++ / 1575516	80163	226488	510687	808318	1193294	WLINR	0.10278	1.12223		0.99768
13 Demeton-S	38231 / 864178	82067	162056	321884	469949	664552	WLINR	-0.02988	0.86412		0.99734

TestAmerica

INITIAL CALIBRATION DATA

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Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7										
14 Simazine	+++++	0.37114	0.38516	0.32753	0.33986	0.32914					
	0.30906						AVRG		0.34365		8.39328
15 Atrazine	+++++	0.42071	0.44480	0.40125	0.42142	0.42626					
	0.41891						AVRG		0.42222		3.31561
16 propazine	0.47409	0.45855	0.44433	0.40832	0.42584	0.43090					
	0.41719						AVRG		0.43703		5.34210
17 Disulfoton	20950	82596	206154	430185	637297	902155					
	1174534						WLINR	0.05288	1.26562		0.99670
18 Diazinon	1.88382	1.82569	1.81443	1.58003	1.61382	1.56949					
	1.40473						AVRG		1.67029		10.44280
19 Methyl Parathion	25143	93936	198723	413467	624051	900226					
	1183337						WLINR	0.04024	1.23862		0.99868
20 Ronnel	30043	92833	207764	431001	655015	986468					
	1357486						WLINR	0.03640	1.31799		0.99738

TestAmerica

INITIAL CALIBRATION DATA

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Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2	
	5.0000 Level 7											
21 Malathion	0.73980	0.86061	1.01096	0.96567	1.01070	0.99917						
	0.92478						AVRG		0.93024		10.76267	
22 Fenthion	25618	81008	197350	415453	617147	893955						
	1181597						WLINR	0.04167	1.22010		0.99680	
23 Parathion	+++++	64057	164552	364258	575984	833868						
	1129725						WLINR	0.09794	1.18191		0.99826	
24 Chlorpyrifos	+++++	2.09077	1.98130	1.64856	1.66053	1.68232						
	1.57114						AVRG		1.77243		11.87404	
25 Trichloronate	39953	111835	246154	514604	784208	1161418						
	1577851						WLINR	0.03585	1.57763		0.99851	
26 Anilazine	+++++	3022	9122	18930	30638	51752						
	72734						WLINR	0.13554	0.07134		0.98986	<- r=0.995
27 Merphos-A (Merphos)	+++++	2369	19841	99237	171288	390389						
	569663						QUAD	0.32491	2.46824	-0.69646	0.98447	<- NTC

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
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Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
28 Tetrachlorvinphos (Stirophos)	17165	56276	132732	293015	464319	712949					
	992586						QUAD	0.07115	1.11462	-0.05261	0.99826
29 Tokuthion	38426	102445	227163	463539	700700	1022545					
	1372371						WLINR	0.02104	1.36883		0.99735
30 Merphos-B (Merphos Oxone)	1.18673	1.20397	1.23721	1.04485	1.04018	0.82953					
	0.69514						AVRG		1.03395		19.75426
31 Carbophenothion-methyl	21792	68129	158754	337052	518631	756521					
	1019566						WLINR	0.04109	1.01816		0.99674
32 Fensulfothion	20933	74021	170156	382549	574661	828723					
	1083760						WLINR	0.04849	1.12420		0.99732
33 Bolstar / Famphur	61134	173165	392428	780681	1162399	1654375					
	2168160						WLINR	0.04532	1.13463		0.99719
34 Carbophenothion	35249	94798	205286	394500	583033	846237					
	1114078						WLINR	0.01102	1.15013		0.99759

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
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Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
36 Phosmet	21966	62864	146573	301111	461134	660771					
	881528						WLINR	0.03153	0.89522		0.99668
37 EPN	34992	94375	194560	394014	584842	822064					
	1075540						WLINR	0.00956	1.12405		0.99820
38 Azinphos-methyl	21324	58851	149459	317670	489484	687141					
	902800						WLINR	0.03852	0.93412		0.99284
40 Azinphos-ethyl	1.10513	1.01592	1.07941	0.96607	1.03338	1.00799					
	0.93458						AVRG		1.02035		5.84215
41 Coumaphos	22677	63688	149836	305626	472023	685194					
	924152						WLINR	0.03191	0.92139		0.99604
M 42 Total Demeton	47119	125209	246909	486910	713579	1009837					
	1298448						WLINR	-0.00080	1.37869		0.99748
43 Merphos	40761	109753	230843	474965	693990	992478					
	1281411						WLINR	0.01251	1.34499		0.99803

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
$ 4 Chlormefos	1.36448	1.36588	1.62655	1.40439	1.42366	1.38996					
	1.30084						AVRG		1.41082		7.28870
$ 35 Triphenyl phosphate	25377	71967	159284	326923	483386	690215					
	913461						WLINR	0.02309	0.94371		0.99807

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Last Edit : 30-Sep-2009 08:31 GC_D.i

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

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Report Date: 30-Sep-2009 08:31

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\010F1001.D
30-SEP-2009 03:08	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\027F2701.D

Report Date : 30-Sep-2009 08:45

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 GC_D.i

Calibration File Names:
Level 1: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Level 2: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Level 3: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Level 4: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Level 5: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Level 6: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Level 7: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
1 o,o,o-TEPT	1.70944	1.82270	1.91994	1.64505	1.63242	1.58596					
	1.40917						AVRG		1.67495		9.87961
2 Dichlorvos	1.36258	1.20538	1.26335	1.09465	1.15696	1.15368					
	1.11164						AVRG		1.19261		7.88032
4 Mevinphos	0.62406	0.71021	0.81978	0.72187	0.74254	0.72095					
	0.67540						AVRG		0.71640		8.38801
5 Demeton-O	0.67230	0.69342	0.78834	0.69657	0.72786	0.71462					
	0.66994						AVRG		0.70901		5.74420

*All weighted linear are $1/x^2$

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	5.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
6 Thionazin	0.92691	1.04072	1.18135	1.04042	1.06307	1.02466	0.94497	AVRG		1.03173		8.11775
8 Ethoprop	42901	78683	117585	231940	339190	456780	585549	WLINR	-0.13757	1.09519		0.99708
9 Naled	7830	10270	27100	66048	104633	153119	201383	LINR	0.05226	0.38732		0.99488
10 Sulfotepp	28344	72236	147729	278947	391784	536170	695274	LINR	-0.11085	1.27752		0.99140
11 Phorate	27735	46032	94044	186434	267547	366311	457389	WLINR	-0.08395	0.88336		0.99207
12 Demeton-S	7597	22639	48449	105446	148807	218626	292846	WLINR	0.01285	0.82789		0.99843
13 Simazine	+++++	2982	12318	32796	50934	77526	107753	LINR	0.16673	0.21257		0.99947

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	5.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
14 Atrazine / Propazine	11556	30702	66367	137441	207143	307271	421388	WLINR	0.02339	0.38510		0.99771
15 Dimethoate	7995	35698	90330	200683	296888	414494	547217	WLINR	0.05731	1.10992		0.99591
16 Diazinon	1.00729	1.00825	1.11853	0.99837	0.98565	0.94624	0.86867	AVRG		0.99043		7.58654
17 Disulfoton	1.02114	1.01465	1.12139	1.02680	0.98892	0.97618	0.88268	AVRG		1.00454		7.08869
18 Methyl Parathion	8492	29837	72062	145647	218781	308584	409367	WLINR	0.05013	1.06463		0.99750
19 Ronnel	1.21971	1.18723	1.32067	1.20364	1.28662	1.26207	1.25358	AVRG		1.24765		3.79673
20 Malathion	11736	31859	67405	132229	191342	267260	350626	WLINR	0.01703	0.91922		0.99849

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2	
	5.0000 Level 7											
21 Chlorpyrifos	14294	39270	83511	166943	244884	349915						
	473711						WLINR	0.02320	1.18913		0.99867	
22 Trichloronate	14331	40109	87602	175644	261483	378490						
	516721						WLINR	0.02932	1.27691		0.99766	
23 Parathion	12594	39453	83031	163192	239376	341103						
	432482						WLINR	0.02868	1.16172		0.99848	
24 Fenthion	1.36034	1.46554	1.53969	1.38567	1.43691	1.34213						
	1.31823						AVRG		1.40693		5.55499	
25 Merphos-A (Merphos)	431	+++++	14025	43136	73838	162051						
	228536						LINR	0.37623	0.64894		0.94993	<- NTC
26 Anilazine	550	2028	5957	11478	19918	26232						
	35306						WLINR	0.07521	0.09338		0.99426	
27 Tetrachlorvinphos (stirophos)	8356	22635	50985	110089	164289	242093						
	330886						QUAD	0.05055	1.28376	-0.05352	0.99966	

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
28 Tokuthion	1.08753	1.10074	1.24220	1.21557	1.27179	1.25077					
	1.24497						AVRG		1.20194		6.28609
29 Merphos-B (Merphos oxone)	1.22652	1.27415	1.21296	1.07677	1.02350	0.80912					
	0.76337						AVRG		1.05520		19.32026
30 Carbophenothion methyl	11420	31047	66286	127195	192332	269754					
	352947						WLINR	0.01951	0.91500		0.99803
31 Fensulfothion	9459	26023	59611	117044	171184	232294					
	294034						WLINR	0.02472	0.80787		0.99542
32 Bolstar	1.02843	1.03889	1.16718	1.07913	1.10055	1.02961					
	0.95013						AVRG		1.05627		6.44864
33 Carbophenothion	12072	32880	70538	133833	194237	270609					
	347667						WLINR	0.01527	0.93342		0.99725
34 Famphur	10333	30107	67281	137487	195770	273389					
	345194						WLINR	0.02930	0.94099		0.99711

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7										
36 EPN	0.96427	0.93325	1.08934	0.97332	0.99917	0.94072					
	0.88365						AVRG		0.96910		6.63355
37 Phosmet	0.86015	0.71717	0.90198	0.81421	0.89285	0.88885					
	0.76918						AVRG		0.83491		8.47100
39 Azinphos-methyl	18426	32051	63061	115656	166083	229899					
	301398						WLINR	-0.05641	0.75216		0.99445
40 Azinphos-ethyl	24380	39849	67533	126800	171561	238500					
	301170						WLINR	-0.10839	0.75753		0.99732
41 Coumaphos	20151	38014	63215	114650	160902	222813					
	284996						WLINR	-0.08247	0.72795		0.99879
M 42 Total Demeton	11226	32782	70048	148121	212648	309350					
	412260						WLINR	0.03190	1.04245		0.99868
43 Merphos	19148	49545	101511	202373	283468	401105					
	531931						WLINR	0.00943	1.37585		0.99907

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TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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	5.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 3 Chlormefos	1.26703	1.14885	1.28773	1.09409	1.10504	1.07530						
	1.00692							AVRG		1.14071		9.00151
$ 35 Triphenyl phosphate	0.75137	0.76053	0.86594	0.79535	0.81821	0.78033						
	0.72786							AVRG		0.78566		5.87332

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Last Edit : 30-Sep-2009 08:45 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: 30-Sep-2009 08:45

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Start Cal Date: 29-SEP-2009 12:33
End Cal Date : 29-SEP-2009 16:12
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
29-SEP-2009 16:12	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
29-SEP-2009 15:35	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
29-SEP-2009 14:59	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
29-SEP-2009 14:22	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
29-SEP-2009 13:46	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
29-SEP-2009 13:09	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
29-SEP-2009 12:33	8141A	\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: BY SAMPLE

29-SEP-2009 16:49	8141A	
\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\010F1001.D		

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.0000	2.0277	1.4	15.0	
2	Dichlorvos	2.0000	1.8383	8.1	15.0	
3	Mevinphos	2.0000	1.3838	30.8	15.0	<-
4	Chlormefos	2.0000	1.9297	3.5	15.0	
5	Thionazin	2.0000	1.9172	4.1	15.0	
~~6~~	~~Demeton-O~~	~~0.6500~~	~~1.9167~~	~~194.9~~	~~15.0~~	~~<-~~
7	Ethoprop	2.0000	1.9138	4.3	15.0	
8	Naled	2.0000	1.8740	6.3	15.0	
9	Sulfotepp	2.0000	1.7418	12.9	15.0	
10	Phorate	2.0000	1.6291	18.5	15.0	<-
11	Dimethoate	2.0000	1.9574	2.1	15.0	
~~12~~	~~Demeton-S~~	~~1.3600~~	~~0.2011~~	~~85.2~~	~~15.0~~	~~<-~~
13	Simazine	2.0000	1.9396	3.0	15.0	
14	Atrazine	2.0000	1.8345	8.3	15.0	
15	propazine	2.0000	1.8174	9.1	15.0	
17	Disulfoton	2.0000	1.9030	4.9	15.0	
16	Diazinon	2.0000	1.7880	10.6	15.0	
18	Methyl Parathion	2.0000	1.8895	5.5	15.0	
19	Ronnel	2.0000	1.9096	4.5	15.0	
20	Malathion	2.0000	1.7586	12.1	15.0	
21	Fenthion	2.0000	1.7893	10.5	15.0	
22	Parathion	2.0000	1.7858	10.7	15.0	
23	Chlorpyrifos	2.0000	1.8763	6.2	15.0	
24	Trichloronate	2.0000	1.7018	14.9	15.0	
25	Anilazine	2.0000	1.3473	32.6	15.0	<-
148	Merphos-A (Merphos)	2.0000	1.0513	47.4	999.0	
26	Tetrachlorvinphos (Stirophos)	2.0000	1.7078	14.6	15.0	
28	Tokuthion	2.0000	1.8589	7.1	15.0	
149	Merphos-B (Merphos Oxone)	2.0000	2.1683	8.4	999.0	
29	Carbophenothion-methyl	2.0000	1.2396	38.0	15.0	<-
29	Fensulfothion	2.0000	1.7345	13.3	15.0	
30	Bolstar / Famphur	4.0000	3.9661	0.8	15.0	
32	Carbophenothion	2.0000	1.9274	3.6	15.0	
31	Triphenyl phosphate	2.0000	2.0501	2.5	15.0	
34	Phosmet	2.0000	2.0603	3.0	15.0	
32	EPN	2.0000	1.9835	0.8	15.0	
33	Azinphos-methyl	2.0000	1.7690	11.5	15.0	
38	Azinphos-ethyl	2.0000	1.8763	6.2	15.0	
36	Coumaphos	2.0000	1.8522	7.4	15.0	

data not available SDW 9/30/09

data not available SDW 9/30/09

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1084
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1178	5.9	15.0
27 Merphos	2.0000	1.8157	9.2	15.0

Average %D = 16.7

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1	o,o,o-TEPT	2.0000	2.0546	2.7	15.0	
2	Dichlorvos	2.0000	1.8179	9.1	15.0	
3	Chlormefos	2.0000	1.9854	0.7	15.0	
4	Mevinphos	2.0000	1.5661	21.7	15.0	<-
~~5~~	~~Demeton-O~~	~~0.6500~~	~~2.0374~~	~~213.5~~	~~15.0~~	~~<-~~ data not available ODW 9130109
6	Thionazin	2.0000	2.0499	2.5	15.0	
7	Ethoprop	2.0000	1.8574	7.1	15.0	
10	Naled	2.0000	1.7111	14.4	15.0	
145	Sulfotepp	2.0000	1.7465	12.7	15.0	
8	Phorate	2.0000	1.8215	8.9	15.0	
~~15~~	~~Demeton-S~~	~~1.3600~~	~~0.0937~~	~~93.1~~	~~15.0~~	~~<-~~ data not available ODW 9130109
10	Simazine	2.0000	2.2211	11.1	15.0	
13	Atrazine / Propazine	4.0000	3.6090	9.8	15.0	
16	Dimethoate	2.0000	1.9112	4.4	15.0	
11	Diazinon	2.0000	1.7312	13.4	15.0	
14	Disulfoton	2.0000	1.8899	5.5	15.0	
23	Methyl Parathion	2.0000	1.8884	5.6	15.0	
17	Ronnel	2.0000	2.0103	0.5	15.0	
24	Malathion	2.0000	1.7017	14.9	15.0	
18	Chlorpyrifos	2.0000	1.8709	6.5	15.0	
20	Trichloronate	2.0000	1.7259	13.7	15.0	
26	Parathion	2.0000	1.9657	1.7	15.0	
19	Fenthion	2.0000	1.9078	4.6	15.0	
151	Merphos-A (Merphos)	2.0000	1.1905	40.5	999.0	
21	Anilazine	2.0000	1.1573	42.1	15.0	<-
27	Tetrachlorvinphos (stirophos)	2.0000	1.7038	14.8	15.0	
25	Tokuthion	2.0000	1.9155	4.2	15.0	
148	Merphos-B (Merphos oxone)	2.0000	2.0651	3.3	999.0	
28	Carbophenothion methyl	2.0000	1.2678	36.6	15.0	<-
30	Fensulfothion	2.0000	1.9488	2.6	15.0	
28	Bolstar	2.0000	2.0207	1.0	15.0	
30	Carbophenothion	2.0000	1.9799	1.0	15.0	
33	Famphur	2.0000	1.9782	1.1	15.0	
29	Triphenyl phosphate	2.0000	2.0893	4.5	15.0	
32	EPN	2.0000	2.0329	1.6	15.0	
34	Phosmet	2.0000	2.0660	3.3	15.0	
34	Azinphos-methyl	2.0000	1.7858	10.7	15.0	
35	Azinphos-ethyl	2.0000	1.9627	1.9	15.0	
36	Coumaphos	2.0000	1.9237	3.8	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B/010F1001.D
Report Date: 09/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

Injection Date: 29-SEP-2009 16:49
Lab Sample ID: 8141 SS GSV1107
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
40 Total Demeton	2.0000	2.1311	6.6	15.0
22 Merphos	2.0000	1.8093	9.5	15.0

Average %D = 16.3

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\003F0301.D
Lab Smp Id: 8141 L7 GSV1077 Client Smp ID: 8141 L7 GSV1077
Inj Date : 29-SEP-2009 12:33
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L7 GSV1077
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:30 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:59 Cal File: 007F0701.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	1 o,o,o-TEPT	4.263	4.260	(0.313)	2029691	5.00000	4.397
	2 Dichlorvos	5.819	5.821	(0.427)	1672222	5.00000	5.047(A)
	3 Mevinphos	9.343	9.350	(0.685)	819859	5.00000	5.164(A)
$	4 Chlormefos	9.464	9.466	(0.694)	1978185	5.00000	4.610
	5 Thionazin	12.578	12.581	(0.922)	1528441	5.00000	4.495
	6 Demeton-O	12.833	12.837	(0.941)	434270	1.62500	1.492
	7 Ethoprop	13.145	13.150	(0.964)	1475254	5.00000	4.535
	8 Naled	13.427	13.431	(0.984)	571005	5.00000	5.029(A)
*	9 Tributylphosphate	13.639	13.646	(1.000)	608279	2.00000	
	10 Sulfotepp	14.103	14.105	(1.034)	1915905	5.00000	4.384
	11 Phorate	14.189	14.191	(1.040)	1353850	5.00000	4.652
	12 Dimethoate	14.356	14.366	(1.053)	1575516	5.00000	4.822
	13 Demeton-S	14.630	14.636	(1.073)	864178	3.40000	3.228
	14 Simazine	14.751	14.756	(1.082)	469988	5.00000	4.497
	15 Atrazine	14.968	14.971	(1.097)	637032	5.00000	4.961
	16 propazine	15.148	15.152	(1.111)	634425	5.00000	4.773
	17 Disulfoton	15.831	15.835	(0.585)	1174534	5.00000	4.638
	18 Diazinon	15.896	15.901	(0.588)	1438291	5.00000	4.205
	19 Methyl Parathion	16.797	16.802	(0.621)	1183337	5.00000	4.746
	20 Ronnel	17.417	17.422	(0.644)	1357486	5.00000	5.102(A)
	21 Malathion	18.091	18.094	(0.669)	946882	5.00000	4.971
	22 Fenthion	18.246	18.250	(0.674)	1181597	5.00000	4.812
	23 Parathion	18.353	18.360	(0.678)	1129725	5.00000	4.864
	24 Chlorpyrifos	18.411	18.416	(0.681)	1608684	5.00000	4.432
	25 Trichloronate	18.915	18.921	(0.699)	1577851	5.00000	4.956
	26 Anilazine	19.317	19.331	(0.714)	72734	5.00000	5.249(AM)
	27 Merphos-A (Merphos)	19.760	19.763	(0.730)	569663	5.00000	4.821
	28 Tetrachlorvinphos (Stirophos)	20.474	20.483	(0.757)	992586	5.00000	4.927
	29 Tokuthion	21.231	21.237	(0.785)	1372371	5.00000	4.938
	30 Merphos-B (Merphos Oxone)	21.481	21.486	(0.794)	711748	5.00000	3.362
	31 Carbophenothion-methyl	22.210	22.219	(0.821)	1019566	5.00000	4.972
	32 Fensulfothion	22.385	22.401	(0.827)	1083760	5.00000	4.805
	33 Bolstar / Famphur	23.571	23.575	(0.871)	2168160	10.0000	9.422

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.891	23.899	(0.883)	1114078	5.00000	4.752
$	35 Triphenyl phosphate	25.220	25.226	(0.932)	913461	5.00000	4.773(A)
	36 Phosmet	25.737	25.748	(0.951)	881528	5.00000	4.872
	37 EPN	26.069	26.075	(0.964)	1075540	5.00000	4.692
	38 Azinphos-methyl	26.562	26.574	(0.982)	902800	5.00000	4.797
*	39 TOCP	27.055	27.058	(1.000)	409558	2.00000	
	40 Azinphos-ethyl	27.154	27.159	(1.004)	956909	5.00000	4.580
	41 Coumaphos	27.679	27.686	(1.023)	924152	5.00000	4.962
M	42 Total Demeton				1298448	5.00000	4.720
M	43 Merphos				1281411	5.00000	4.689

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

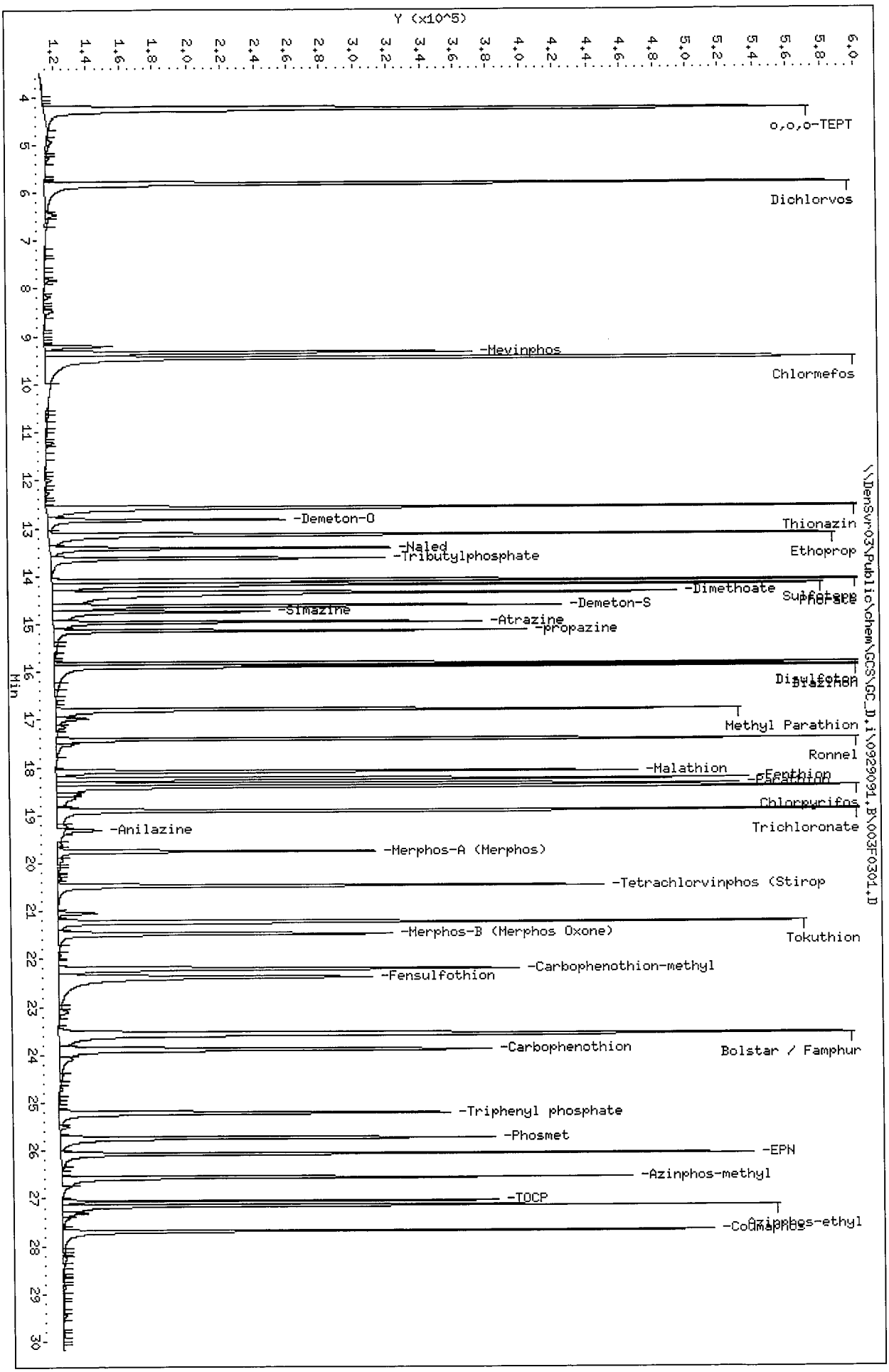
Instrument ID: GC_D.i
Lab File ID: 003F0301.D
Lab Smp Id: 8141 L7 GSV1077
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L7 GSV1077
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	608279	-18.24
39 TOCP	484260	242130	968520	409558	-15.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.64	0.01
39 TOCP	27.06	26.56	27.56	27.06	-0.00

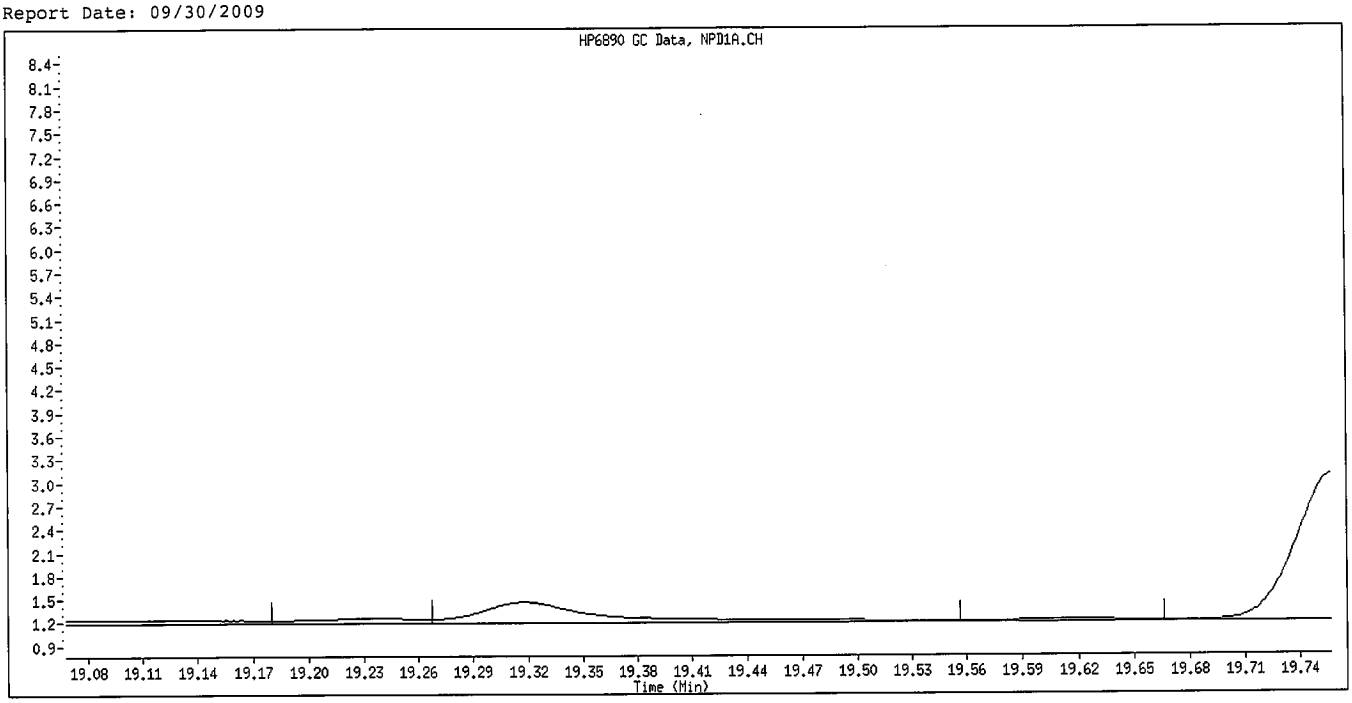
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



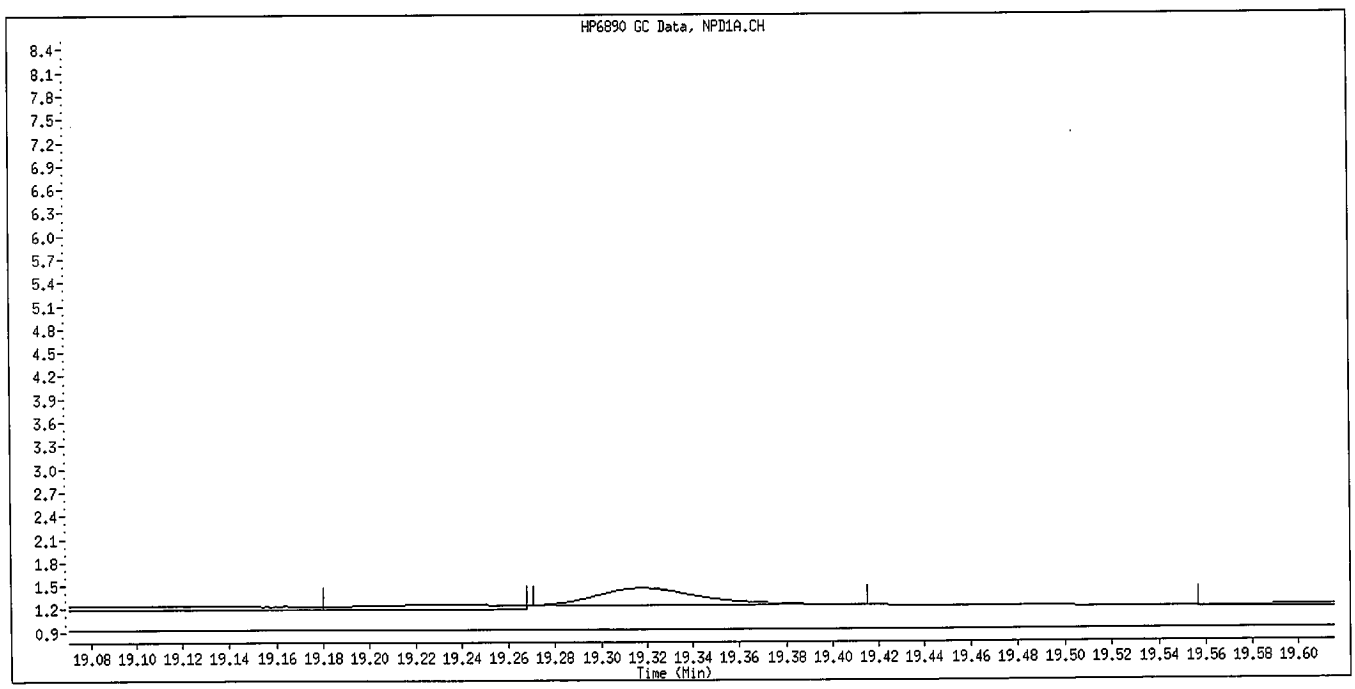
Data File: \\DenSvr03\Public\chem\GCS\GC_D_i\0929091_B\003F0301.D
Date : 29-SEP-2009 12:33
Client ID: 8141 L7 GSV1077
Sample Info: 8141 L7 GSV1077
Column phase: RTx-1MS

Instrument: GC_D_i
Operator: TLW
Column diameter: 0.32

Data File Name: 003F0301.D
Inj. Date and Time: 29-SEP-2009 12:33
Instrument ID: GC_D.i
Client ID: 8141 L7 GSV1077
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Lab Smp Id: 8141 L6 GSV1078 Client Smp ID: 8141 L6 GSV1078
Inj Date : 29-SEP-2009 13:09
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L6 GSV1078
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:30 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 12:33 Cal File: 003F0301.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.265	4.260	(0.313)	1595520	4.00000	3.810
	2 Dichlorvos	5.821	5.821	(0.427)	1232758	4.00000	4.102
	3 Mevinphos	9.346	9.350	(0.685)	602352	4.00000	4.214
$	4 Chlormefos	9.465	9.466	(0.694)	1533805	4.00000	3.941
	5 Thionazin	12.579	12.581	(0.922)	1175630	4.00000	3.825
	6 Demeton-O	12.835	12.837	(0.941)	345285	1.30000	1.308
	7 Ethoprop	13.146	13.150	(0.964)	1147081	4.00000	3.892
	8 Naled	13.428	13.431	(0.984)	423022	4.00000	4.134
*	9 Tributylphosphate	13.641	13.646	(1.000)	551746	2.00000	
	10 Sulfotepp	14.103	14.105	(1.034)	1491687	4.00000	3.763
	11 Phorate	14.188	14.191	(1.040)	1060353	4.00000	3.996
	12 Dimethoate	14.361	14.366	(1.053)	1193294	4.00000	4.060
	13 Demeton-S	14.631	14.636	(1.073)	664552	2.72000	2.728
	14 Simazine	14.751	14.756	(1.081)	363208	4.00000	3.831
	15 Atrazine	14.967	14.971	(1.097)	470380	4.00000	4.038
	16 propazine	15.148	15.152	(1.111)	475496	4.00000	3.944
	17 Disulfoton	15.832	15.835	(0.585)	902155	4.00000	4.034
	18 Diazinon	15.897	15.901	(0.588)	1139164	4.00000	3.759
	19 Methyl Parathion	16.798	16.802	(0.621)	900226	4.00000	4.086
	20 Ronnel	17.419	17.422	(0.644)	986468	4.00000	4.198
	21 Malathion	18.091	18.094	(0.669)	725218	4.00000	4.296
	22 Fenthion	18.245	18.250	(0.674)	893955	4.00000	4.121
	23 Parathion	18.356	18.360	(0.678)	833868	4.00000	4.084
	24 Chlorpyrifos	18.413	18.416	(0.681)	1221063	4.00000	3.797
	25 Trichloronate	18.918	18.921	(0.699)	1161418	4.00000	4.129
	26 Anilazine	19.318	19.331	(0.714)	51752	4.00000	4.269(M)
	27 Merphos-A (Merphos)	19.761	19.763	(0.730)	390389	4.00000	4.348
	28 Tetrachlorvinphos (Stirophos)	20.478	20.483	(0.757)	712949	4.00000	4.116
	29 Tokuthion	21.233	21.237	(0.785)	1022545	4.00000	4.159
	30 Merphos-B (Merphos Oxone)	21.486	21.486	(0.794)	602089	4.00000	3.209
	31 Carbophenothion-methyl	22.211	22.219	(0.821)	756521	4.00000	4.177
	32 Fensulfothion	22.391	22.401	(0.828)	828723	4.00000	4.160
	33 Bolstar / Famphur	23.571	23.575	(0.871)	1654375	8.00000	8.126

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.897	23.899	(0.883)	846237	4.00000	4.077
$	35 Triphenyl phosphate	25.221	25.226	(0.932)	690215	4.00000	4.077(A)
	36 Phosmet	25.744	25.748	(0.951)	660771	4.00000	4.131
	37 EPN	26.073	26.075	(0.964)	822064	4.00000	4.050
	38 Azinphos-methyl	26.566	26.574	(0.982)	687141	4.00000	4.131
*	39 TOCP	27.056	27.058	(1.000)	362910	2.00000	
	40 Azinphos-ethyl	27.156	27.159	(1.004)	731616	4.00000	3.952
	41 Coumaphos	27.684	27.686	(1.023)	685194	4.00000	4.162
M	42 Total Demeton				1009837	4.00000	4.036
M	43 Merphos				992478	4.00000	4.102

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

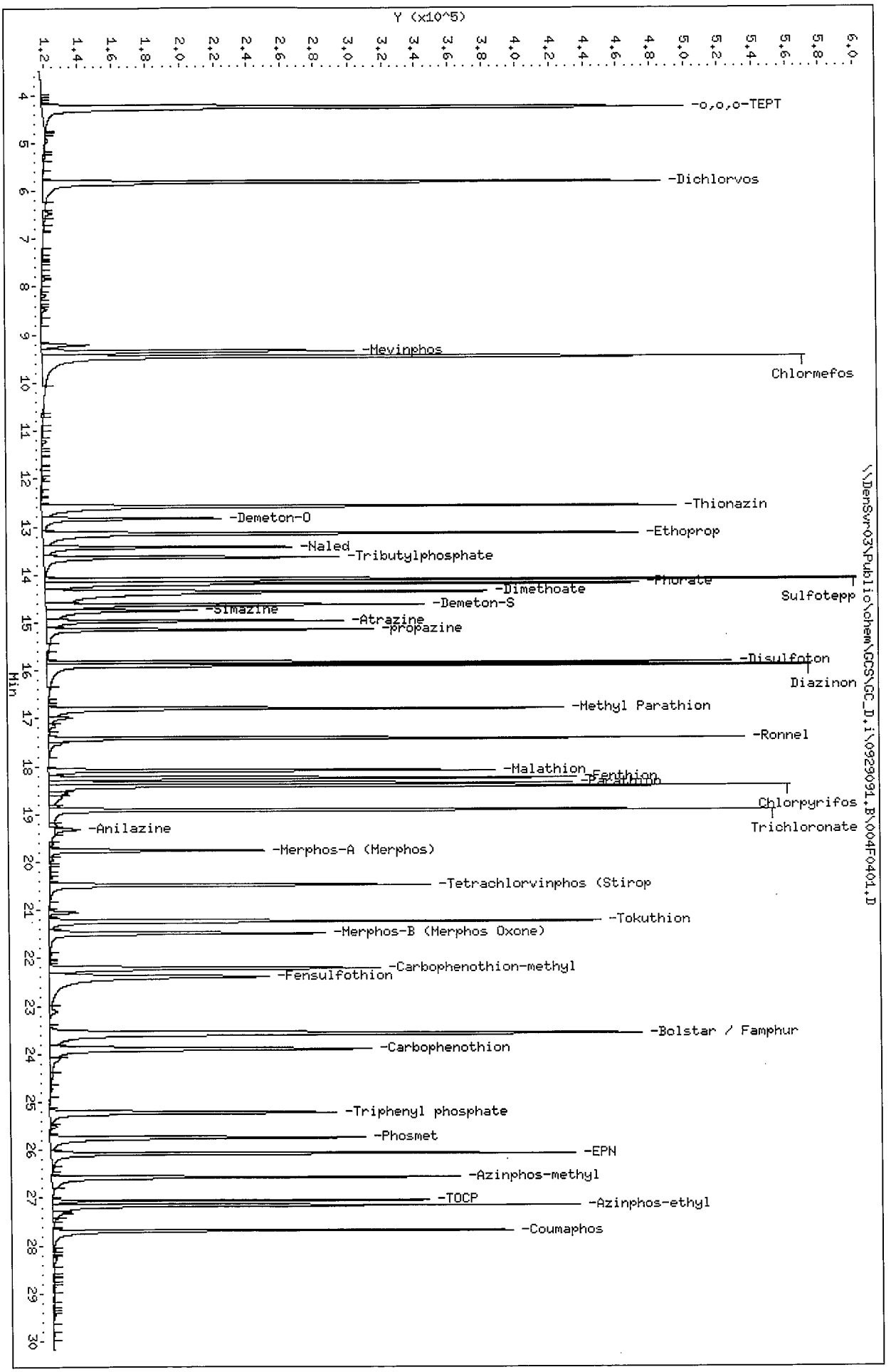
Instrument ID: GC_D.i
Lab File ID: 004F0401.D
Lab Smp Id: 8141 L6 GSV1078
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L6 GSV1078
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	551746	-25.84
39 TOCP	484260	242130	968520	362910	-25.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.64	0.02
39 TOCP	27.06	26.56	27.56	27.06	0.00

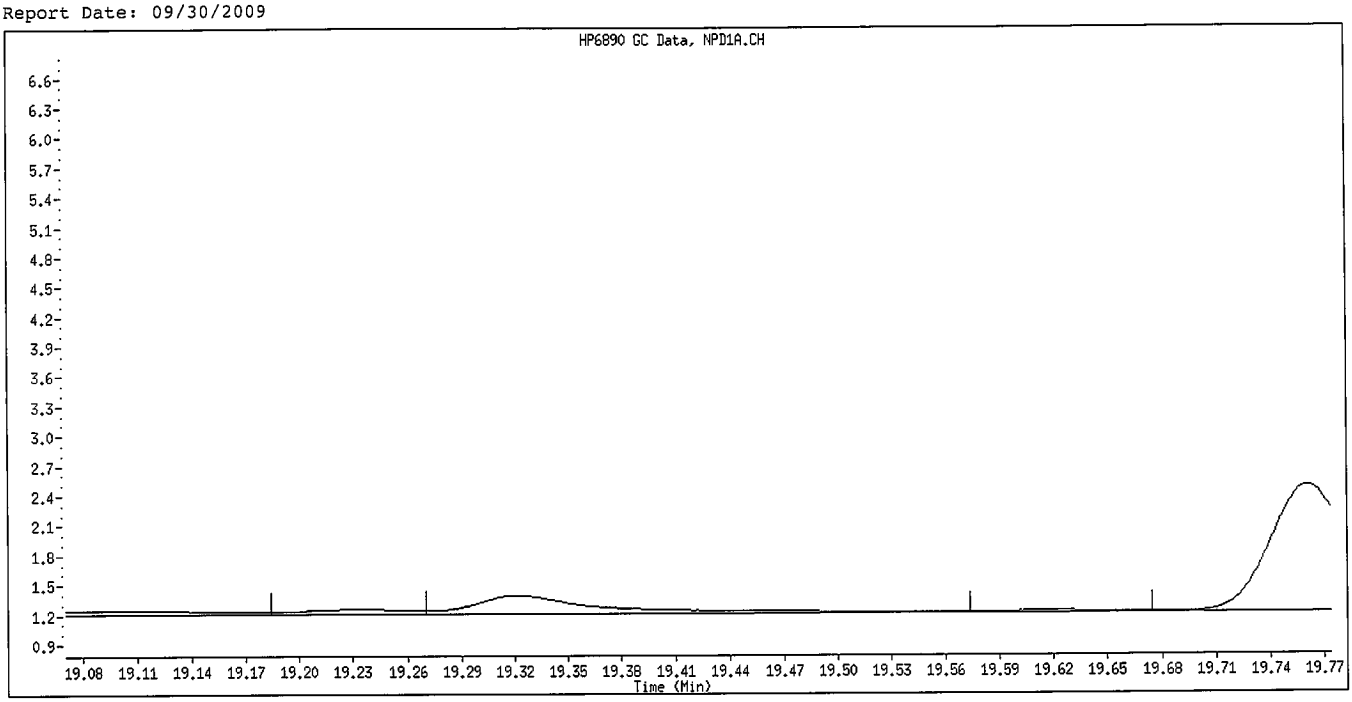
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



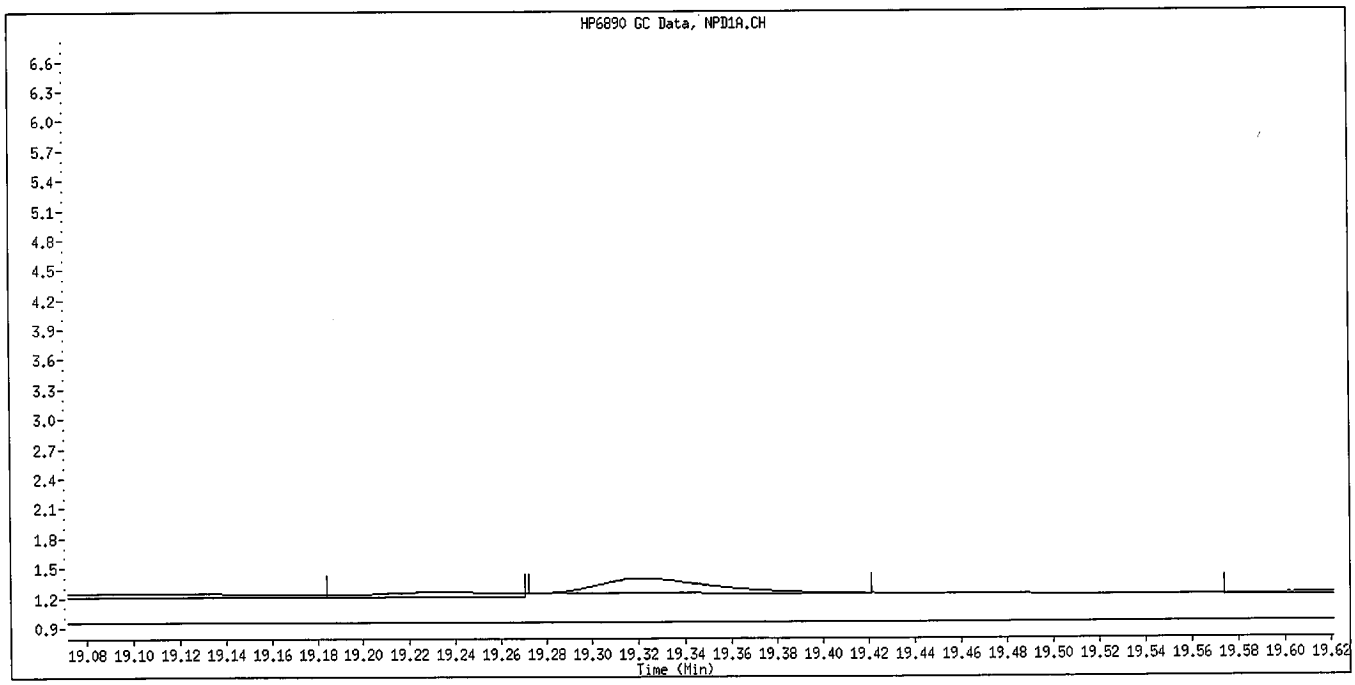
Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\004F0401.D
Date : 29-SEP-2009 13:09
Client ID: 8141 L6 GSV1078
Sample Info: 8141 L6 GSV1078
Column phase: RTx-1MS

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

Data File Name: 004F0401.D
Inj. Date and Time: 29-SEP-2009 13:09
Instrument ID: GC_D.i
Client ID: 8141 L6 GSV1078
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Lab Smp Id: 8141 L5 GSV1079 Client Smp ID: 8141 L5 GSV1079
Inj Date : 29-SEP-2009 13:46
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L5 GSV1079
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:30 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:09 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.259	4.260	(0.312)	1175499	3.00000	3.070
	2 Dichlorvos	5.820	5.821	(0.427)	855667	3.00000	3.114
	3 Mevinphos	9.349	9.350	(0.685)	402659	3.00000	3.125
$	4 Chlormefos	9.465	9.466	(0.694)	1077363	3.00000	3.027
	5 Thionazin	12.581	12.581	(0.922)	833121	3.00000	2.985
	6 Demeton-O	12.837	12.837	(0.941)	243630	0.97500	1.011
	7 Ethoprop	13.149	13.150	(0.964)	815624	3.00000	3.034
	8 Naled	13.431	13.431	(0.984)	292094	3.00000	3.157
*	9 Tributylphosphate	13.645	13.646	(1.000)	504503	2.00000	
	10 Sulfotepp	14.104	14.105	(1.034)	1081308	3.00000	2.983
	11 Phorate	14.191	14.191	(1.040)	765652	3.00000	3.124
	12 Dimethoate	14.366	14.366	(1.053)	808318	3.00000	3.061
	13 Demeton-S	14.636	14.636	(1.073)	469949	2.04000	2.096
	14 Simazine	14.755	14.756	(1.081)	257194	3.00000	2.967
	15 Atrazine	14.970	14.971	(1.097)	318911	3.00000	2.994
	16 propazine	15.152	15.152	(1.110)	322259	3.00000	2.923
	17 Disulfoton	15.834	15.835	(0.585)	637297	3.00000	3.112
	18 Diazinon	15.900	15.901	(0.588)	810958	3.00000	2.898
	19 Methyl Parathion	16.802	16.802	(0.621)	624051	3.00000	3.088
	20 Ronnel	17.422	17.422	(0.644)	655015	3.00000	3.040
	21 Malathion	18.093	18.094	(0.669)	507888	3.00000	3.259
	22 Fenthion	18.249	18.250	(0.674)	617147	3.00000	3.103
	23 Parathion	18.359	18.360	(0.679)	575984	3.00000	3.105
	24 Chlorpyrifos	18.415	18.416	(0.681)	834429	3.00000	2.810
	25 Trichloronate	18.920	18.921	(0.699)	784208	3.00000	3.039
	26 Anilazine	19.330	19.331	(0.714)	30638	3.00000	2.835(M)
	27 Merphos-A (Merphos)	19.763	19.763	(0.730)	171288	3.00000	2.810
	28 Tetrachlorvinphos (Stirophos)	20.483	20.483	(0.757)	464319	3.00000	3.030
	29 Tokuthion	21.237	21.237	(0.785)	700700	3.00000	3.098
	30 Merphos-B (Merphos Oxone)	21.485	21.486	(0.794)	522702	3.00000	3.018
	31 Carbophenothion-methyl	22.218	22.219	(0.821)	518631	3.00000	3.123
	32 Fensulfothion	22.401	22.401	(0.828)	574661	3.00000	3.149
	33 Bolstar / Famphur	23.574	23.575	(0.871)	1162399	6.00000	6.207

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34 Carbophenothion	23.898	23.899	(0.883)	583033	3.00000	3.048
$	35 Triphenyl phosphate	25.226	25.226	(0.932)	483386	3.00000	3.104(A)
	36 Phosmet	25.748	25.748	(0.952)	461134	3.00000	3.138
	37 EPN	26.074	26.075	(0.964)	584842	3.00000	3.125
	38 Azinphos-methyl	26.573	26.574	(0.982)	489484	3.00000	3.205
*	39 TOCP	27.058	27.058	(1.000)	335006	2.00000	
	40 Azinphos-ethyl	27.158	27.159	(1.004)	519281	3.00000	3.038
	41 Coumaphos	27.685	27.686	(1.023)	472023	3.00000	3.122
M	42 Total Demeton				713579	3.00000	3.107
M	43 Merphos				693990	3.00000	3.113

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

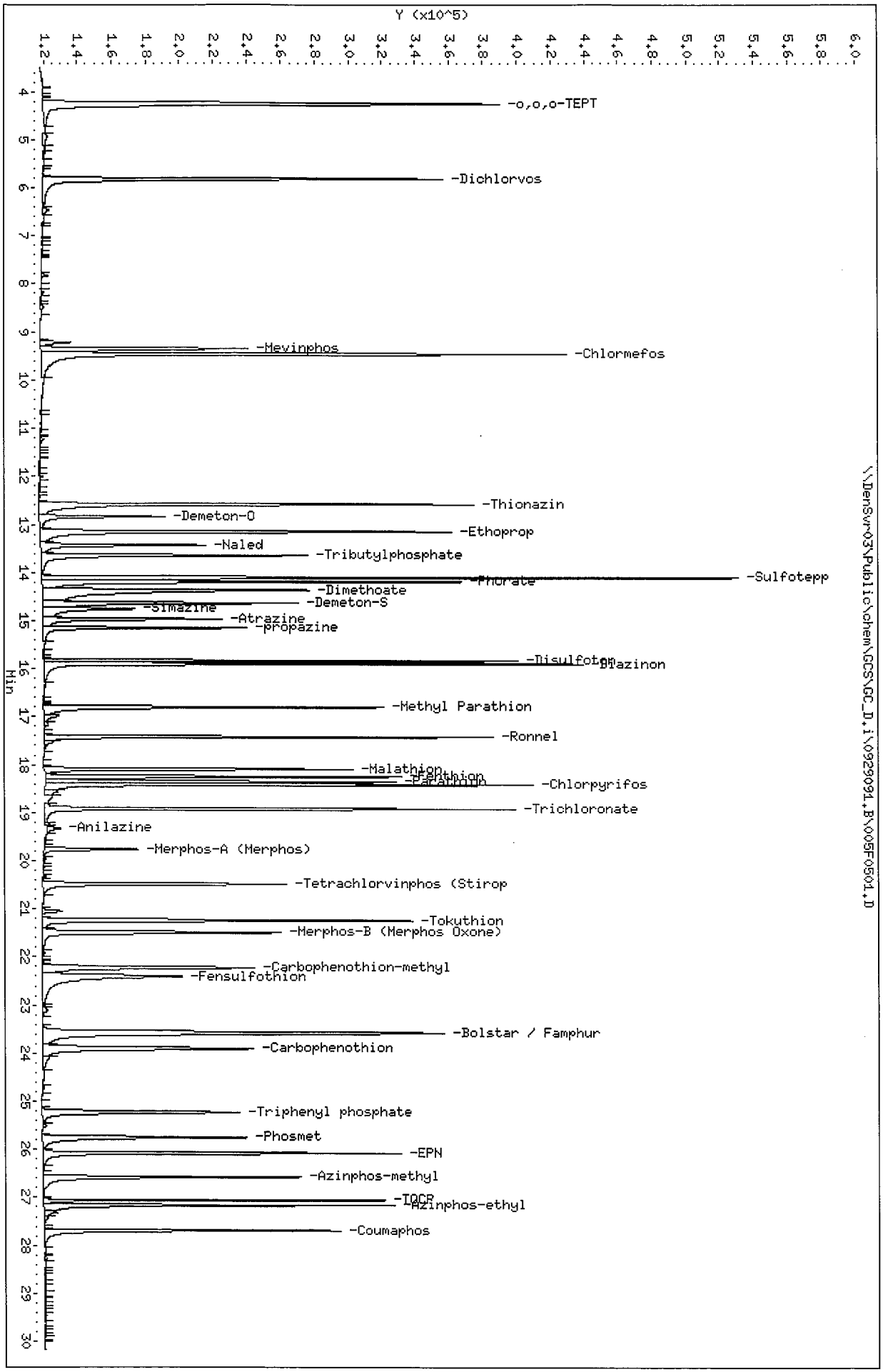
Instrument ID: GC_D.i
Lab File ID: 005F0501.D
Lab Smp Id: 8141 L5 GSV1079
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L5 GSV1079
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	504503	-32.19
39 TOCP	484260	242130	968520	335006	-30.82

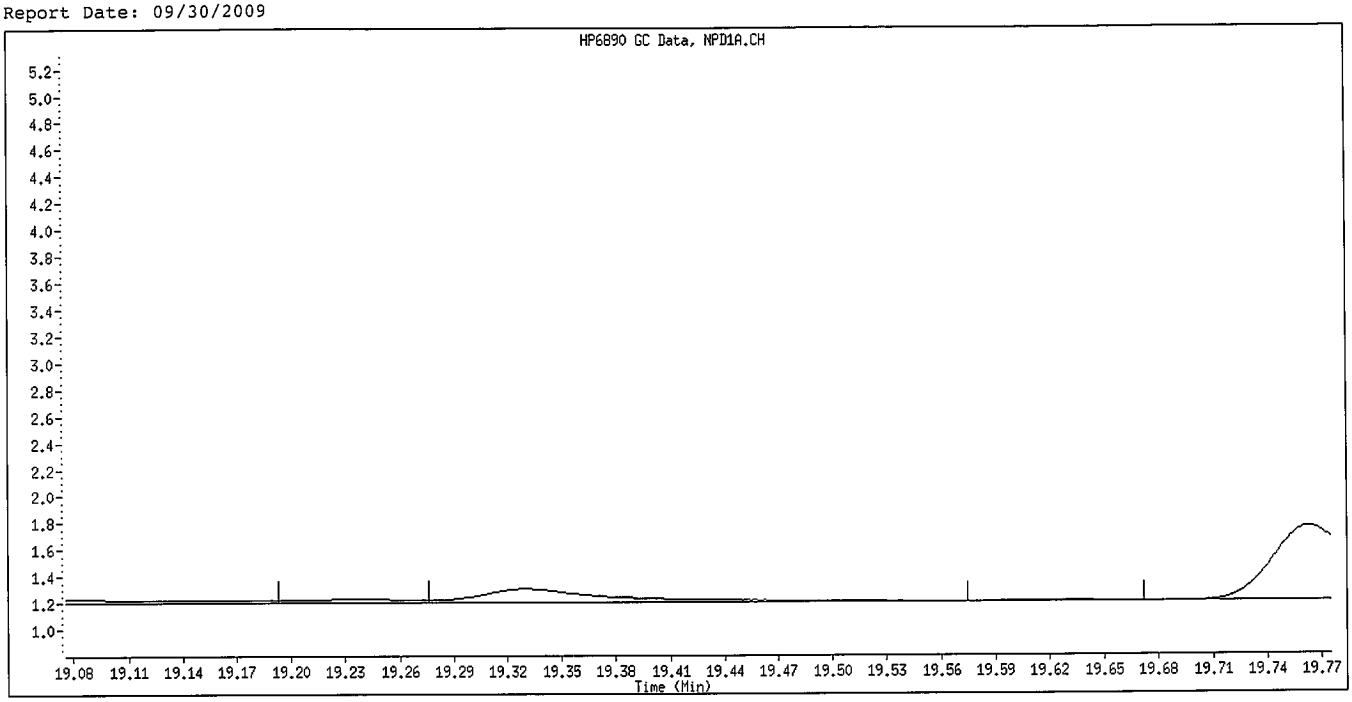
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.05
39 TOCP	27.06	26.56	27.56	27.06	0.01

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.

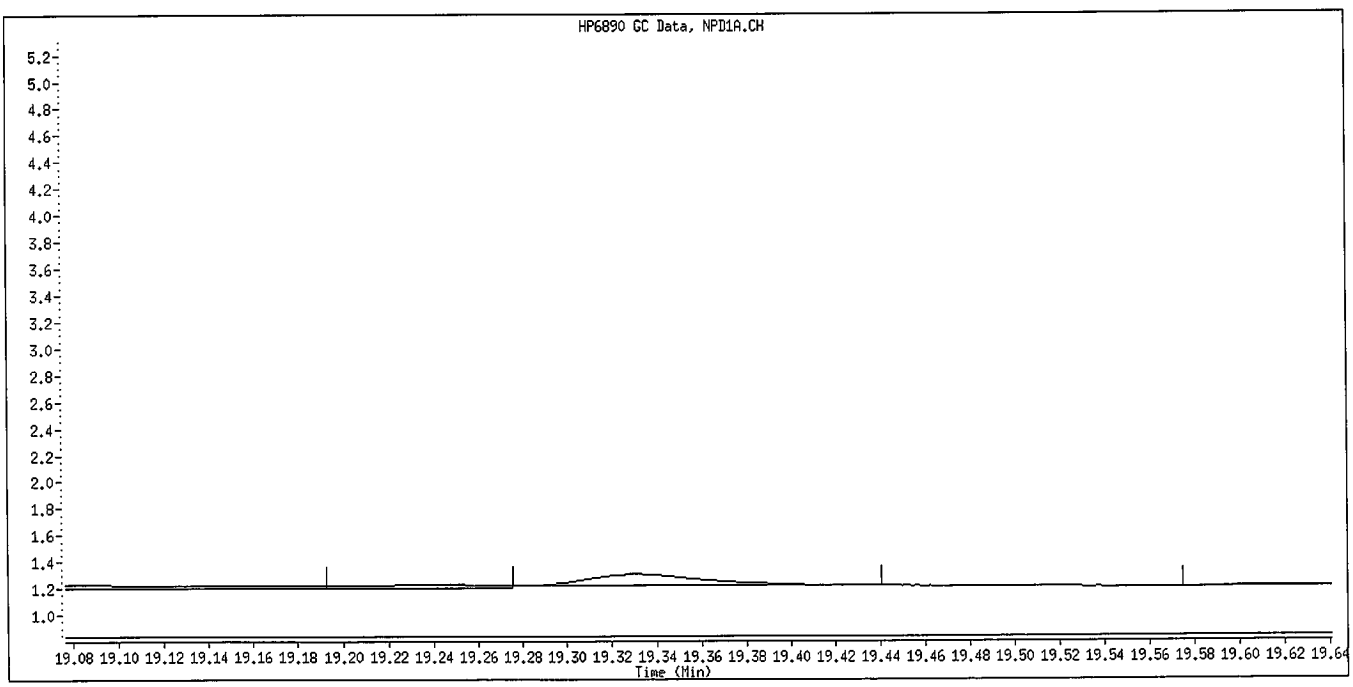


Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\005F0501.D
Date : 29-SEP-2009 13:46
Client ID: 8141 L5 GSV1079
Sample Info: 8141 L5 GSV1079
Column phase: RTx-1MS
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

Data File Name: 005F0501.D
Inj. Date and Time: 29-SEP-2009 13:46
Instrument ID: GC_D.i
Client ID: 8141 L5 GSV1079
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\006F0601.D
Lab Smp Id: 8141 L4 GSV1080 Client Smp ID: 8141 L4 GSV1080
Inj Date : 29-SEP-2009 14:22
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L4 GSV1080
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:46 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.260	4.260	(0.312)	790763	2.00000	1.966
	2 Dichlorvos	5.821	5.821	(0.427)	548853	2.00000	1.902
	3 Mevinphos	9.352	9.350	(0.685)	248213	2.00000	1.902
$	4 Chlormefos	9.464	9.466	(0.694)	744173	2.00000	1.991
	5 Thionazin	12.581	12.581	(0.922)	563076	2.00000	1.953
	6 Demeton-O	12.837	12.837	(0.941)	165026	0.65000	0.6542
	7 Ethoprop	13.150	13.150	(0.964)	553642	2.00000	1.972
	8 Naled	13.432	13.431	(0.984)	178502	2.00000	1.898
*	9 Tributylphosphate	13.645	13.646	(1.000)	529892	2.00000	
	10 Sulfotepp	14.105	14.105	(1.034)	748275	2.00000	1.966
	11 Phorate	14.190	14.191	(1.040)	533826	2.00000	2.024
	12 Dimethoate	14.376	14.366	(1.054)	510687	2.00000	1.923
	13 Demeton-S	14.640	14.636	(1.073)	321884	1.36000	1.346
	14 Simazine	14.756	14.756	(1.081)	173554	2.00000	1.906
	15 Atrazine	14.970	14.971	(1.097)	212618	2.00000	1.901
	16 propazine	15.151	15.152	(1.110)	216365	2.00000	1.868
	17 Disulfoton	15.834	15.835	(0.585)	430185	2.00000	1.996
	18 Diazinon	15.900	15.901	(0.588)	568178	2.00000	1.892
	19 Methyl Parathion	16.803	16.802	(0.621)	413467	2.00000	1.937
	20 Ronnel	17.422	17.422	(0.644)	431001	2.00000	1.892
	21 Malathion	18.095	18.094	(0.669)	347255	2.00000	2.076
	22 Fenthion	18.248	18.250	(0.674)	415453	2.00000	1.977
	23 Parathion	18.360	18.360	(0.679)	364258	2.00000	1.910
	24 Chlorpyrifos	18.414	18.416	(0.681)	592819	2.00000	1.860
	25 Trichloronate	18.920	18.921	(0.699)	514604	2.00000	1.886
	26 Anilazine	19.339	19.331	(0.715)	18930	2.00000	1.747(M)
	27 Merphos-A (Merphos)	19.763	19.763	(0.730)	99237	2.00000	1.906
	28 Tetrachlorvinphos (Stirophos)	20.485	20.483	(0.757)	293015	2.00000	1.889
	29 Tokuthion	21.240	21.237	(0.785)	463539	2.00000	1.926
	30 Merphos-B (Merphos Oxone)	21.488	21.486	(0.794)	375728	2.00000	2.021
	31 Carbophenothion-methyl	22.220	22.219	(0.821)	337052	2.00000	1.923
	32 Fensulfothion	22.412	22.401	(0.828)	382549	2.00000	1.990
	33 Bolstar / Famphur	23.578	23.575	(0.871)	780681	4.00000	3.917

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.904	23.899	(0.883)	394500	2.00000	1.930
$	35 Triphenyl phosphate	25.228	25.226	(0.932)	326923	2.00000	1.973
	36 Phosmet	25.755	25.748	(0.952)	301111	2.00000	1.934
	37 EPN	26.077	26.075	(0.964)	394014	2.00000	1.969
	38 Azinphos-methyl	26.576	26.574	(0.982)	317670	2.00000	1.968
*	39 TOCP	27.058	27.058	(1.000)	359599	2.00000	
	40 Azinphos-ethyl	27.164	27.159	(1.004)	347398	2.00000	1.894
	41 Coumaphos	27.690	27.686	(1.023)	305626	2.00000	1.909
M	42 Total Demeton				486910	2.00000	2.000
M	43 Merphos				474965	2.00000	1.994

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

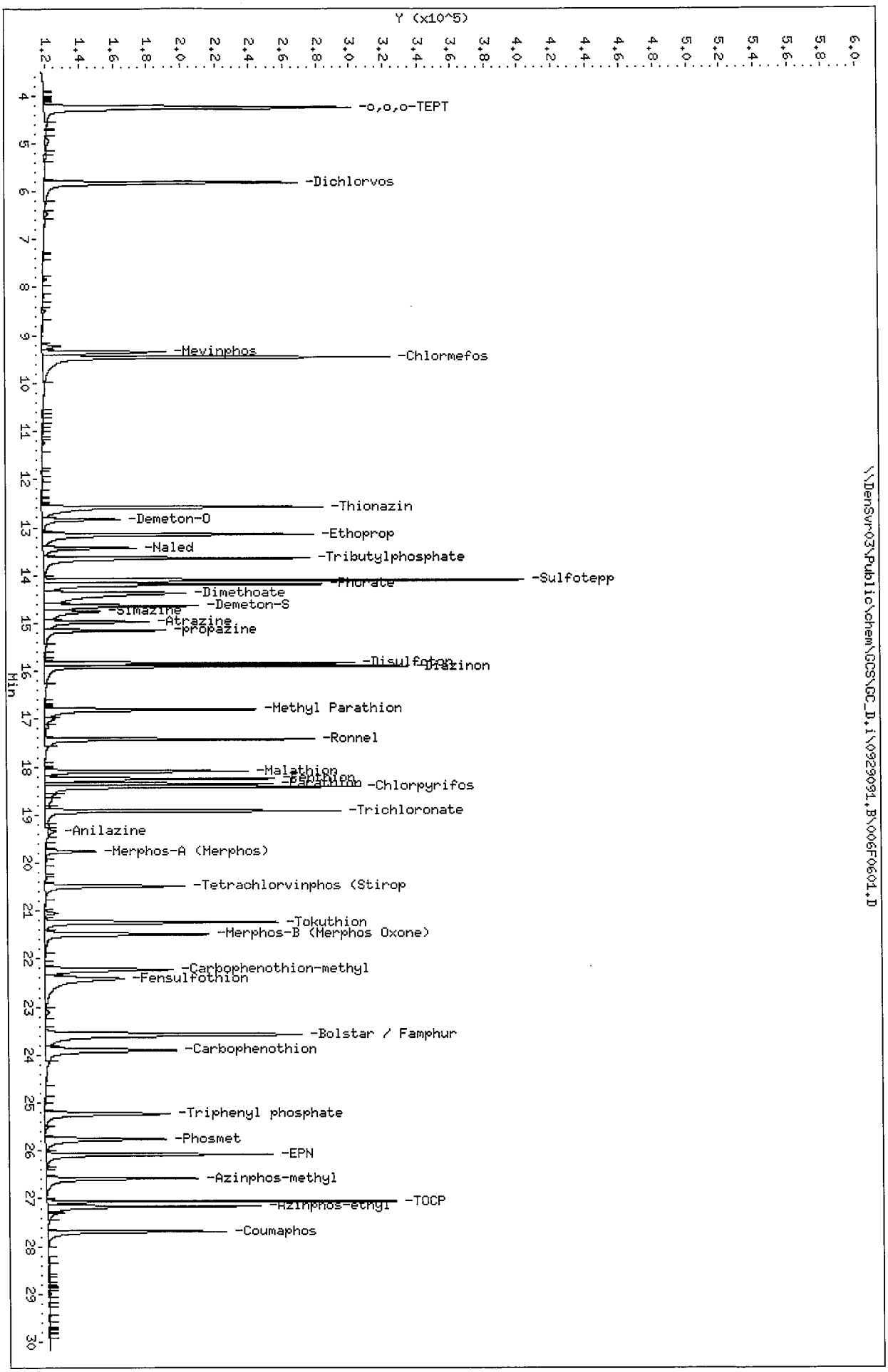
Instrument ID: GC_D.i
Lab File ID: 006F0601.D
Lab Smp Id: 8141 L4 GSV1080
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L4 GSV1080
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	529892	-28.78
39 TOCP	484260	242130	968520	359599	-25.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.05
39 TOCP	27.06	26.56	27.56	27.06	0.01

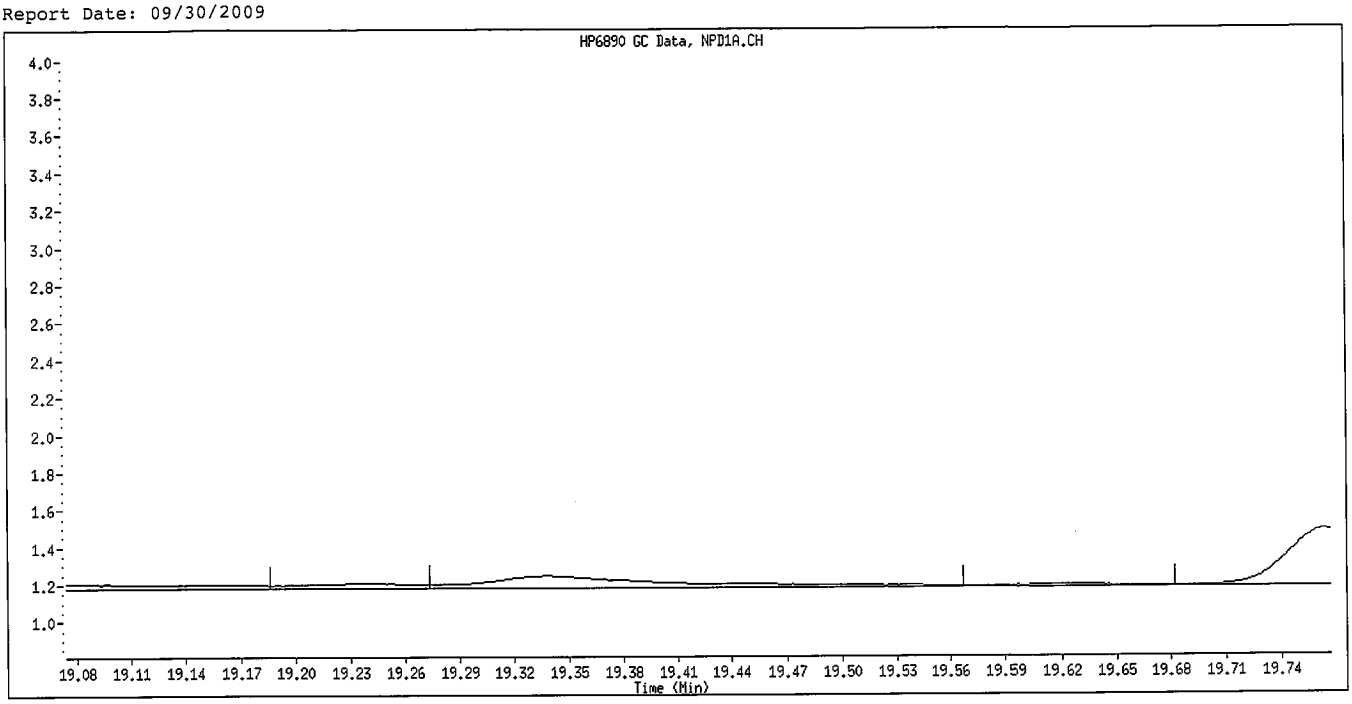
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



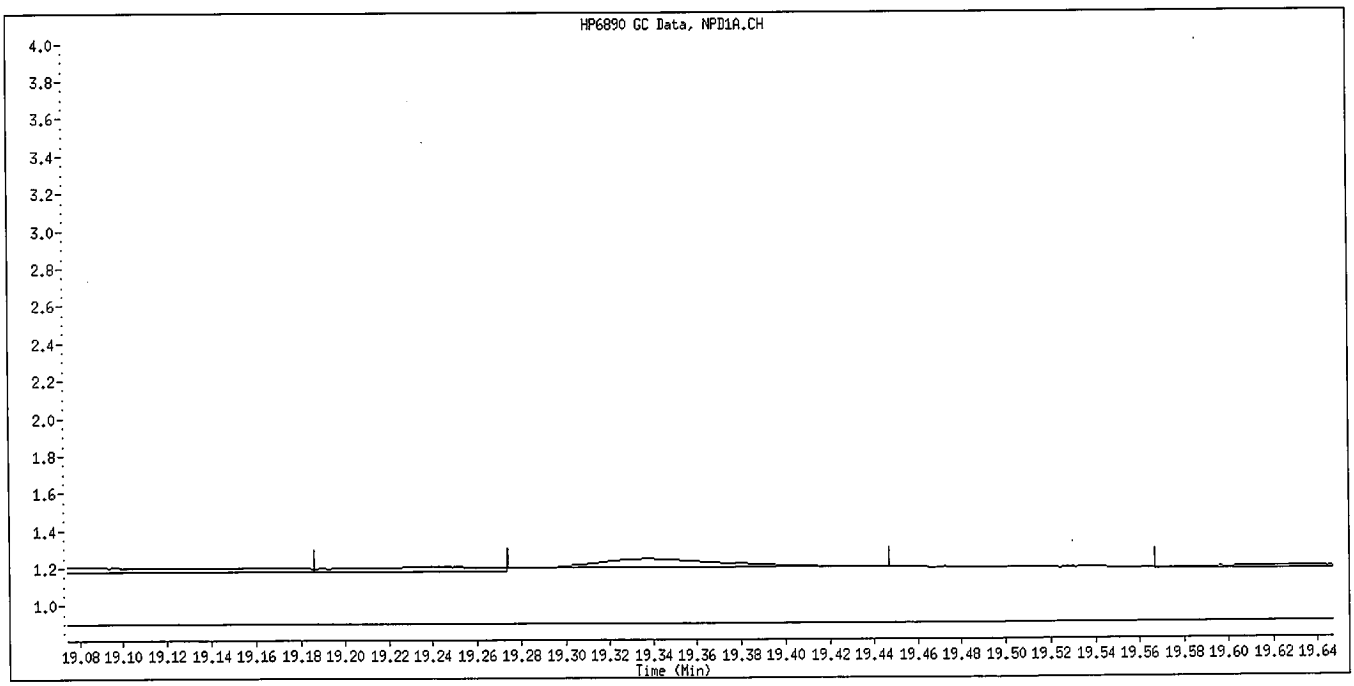
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\092909I,B\006F0601,D
Date : 29-SEP-2009 14:22
Client ID: 8141 L4 GSV1080
Sample Info: 8141 L4 GSV1080
Column phase: RTx-1MS

Instrument: GC_D,i
Operator: TLM
Column diameter: 0.32

Data File Name: 006F0601.D
Inj. Date and Time: 29-SEP-2009 14:22
Instrument ID: GC_D.i
Client ID: 8141 L4 GSV1080
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\007F0701.D
Lab Smp Id: 8141 L3 GSV1081 Client Smp ID: 8141 L3 GSV1081
Inj Date : 29-SEP-2009 14:59
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L3 GSV1081
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:22 Cal File: 006F0601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.263	4.260	(0.312)	406277	1.00000	1.119
	2 Dichlorvos	5.826	5.821	(0.427)	273255	1.00000	1.049
	3 Mevinphos	9.361	9.350	(0.686)	104479	1.00000	0.9754
$	4 Chlormefos	9.465	9.466	(0.693)	388944	1.00000	1.153
	5 Thionazin	12.589	12.581	(0.922)	280712	1.00000	1.119
	6 Demeton-O	12.840	12.837	(0.940)	84853	0.32500	0.3755
	7 Ethoprop	13.158	13.150	(0.964)	278033	1.00000	1.112
	8 Naled	13.437	13.431	(0.984)	78159	1.00000	0.9957
*	9 Tributylphosphate	13.654	13.646	(1.000)	478243	2.00000	
	10 Sulfotepp	14.108	14.105	(1.033)	385386	1.00000	1.122
	11 Phorate	14.194	14.191	(1.040)	291306	1.00000	1.164
	12 Dimethoate	14.405	14.366	(1.055)	226488	1.00000	1.050
	13 Demeton-S	14.654	14.636	(1.073)	162056	0.68000	0.7245
	14 Simazine	14.775	14.756	(1.082)	92100	1.00000	1.121
	15 Atrazine	14.984	14.971	(1.097)	106361	1.00000	1.053
	16 propazine	15.161	15.152	(1.110)	106249	1.00000	1.017
	17 Disulfoton	15.842	15.835	(0.585)	206154	1.00000	1.061
	18 Diazinon	15.906	15.901	(0.588)	309445	1.00000	1.086
	19 Methyl Parathion	16.818	16.802	(0.621)	198723	1.00000	1.021
	20 Ronnel	17.431	17.422	(0.644)	207764	1.00000	0.9971
	21 Malathion	18.100	18.094	(0.669)	172416	1.00000	1.087
	22 Fenthion	18.261	18.250	(0.675)	197350	1.00000	1.032
	23 Parathion	18.374	18.360	(0.679)	164552	1.00000	1.012
	24 Chlorpyrifos	18.424	18.416	(0.681)	337904	1.00000	1.118
	25 Trichloronate	18.928	18.921	(0.699)	246154	1.00000	0.9866
	26 Anilazine	19.359	19.331	(0.715)	9122	1.00000	1.021(M)
	27 Merphos-A (Merphos)	19.769	19.763	(0.731)	19841	1.00000	0.9322(M)
	28 Tetrachlorvinphos (Stirophos)	20.499	20.483	(0.758)	132732	1.00000	0.9938
	29 Tokuthion	21.248	21.237	(0.785)	227163	1.00000	1.015
	30 Merphos-B (Merphos Oxone)	21.499	21.486	(0.794)	211002	1.00000	1.196
	31 Carbophenothion-methyl	22.239	22.219	(0.822)	158754	1.00000	0.9964
	32 Fensulfothion	22.445	22.401	(0.829)	170156	1.00000	0.9845
	33 Bolstar / Famphur	23.589	23.575	(0.872)	392428	2.00000	2.119

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.917	23.899	(0.884)	205286	1.00000	1.069
$	35 Triphenyl phosphate	25.240	25.226	(0.933)	159284	1.00000	1.036
	36 Phosmet	25.769	25.748	(0.952)	146573	1.00000	1.023
	37 EPN	26.083	26.075	(0.964)	194560	1.00000	1.034
	38 Azinphos-methyl	26.590	26.574	(0.983)	149459	1.00000	1.015
*	39 TOCP	27.061	27.058	(1.000)	341094	2.00000	
	40 Azinphos-ethyl	27.172	27.159	(1.004)	184090	1.00000	1.058
	41 Coumaphos	27.698	27.686	(1.024)	149836	1.00000	1.017
M	42 Total Demeton				246909	1.00000	1.100
M	43 Merphos				230843	1.00000	1.034

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

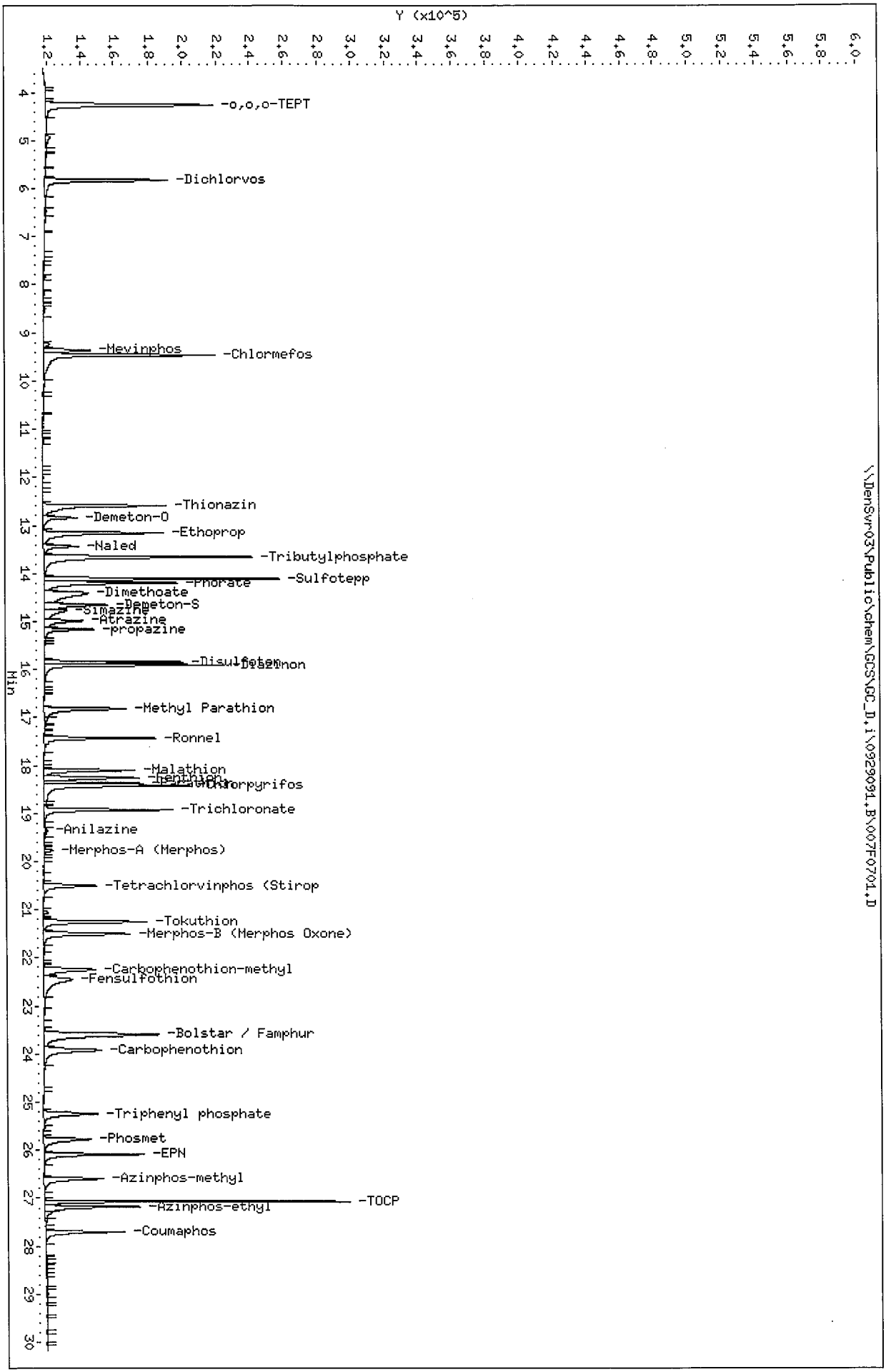
Instrument ID: GC_D.i
Lab File ID: 007F0701.D
Lab Smp Id: 8141 L3 GSV1081
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L3 GSV1081
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	478243	-35.72
39 TOCP	484260	242130	968520	341094	-29.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.12
39 TOCP	27.06	26.56	27.56	27.06	0.02

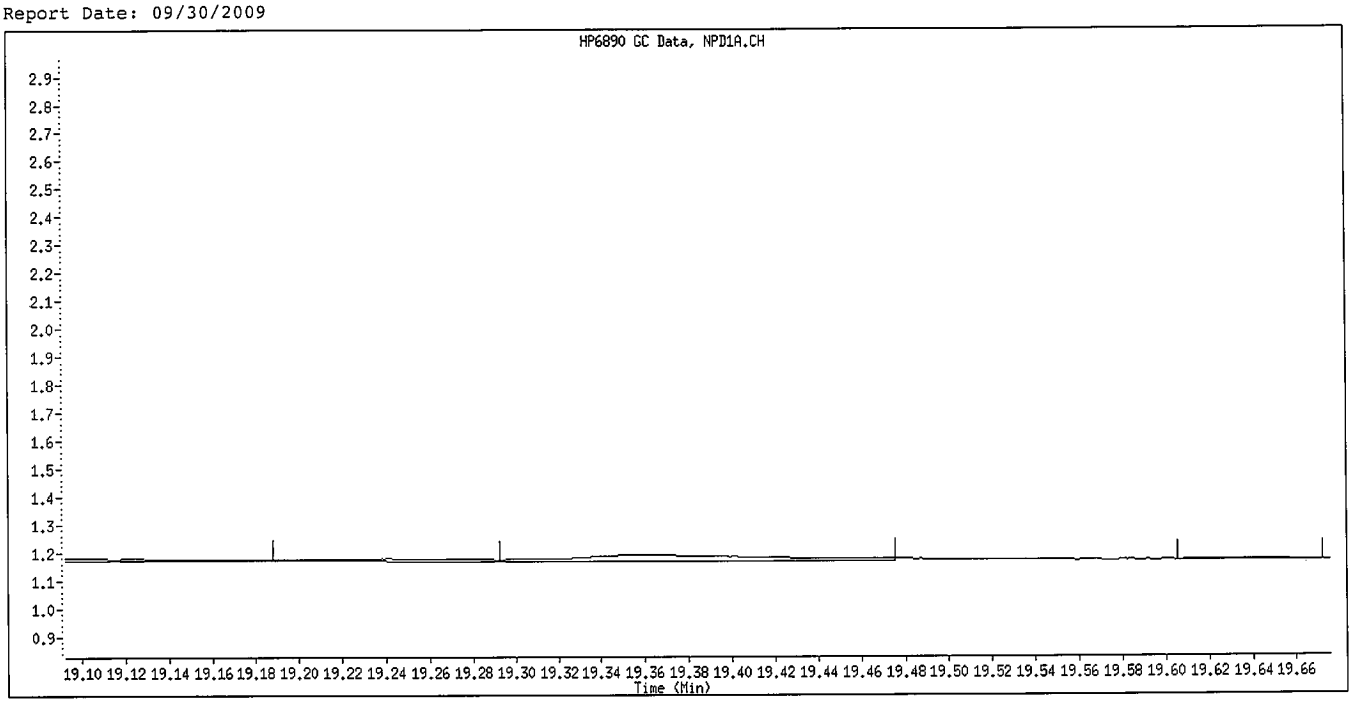
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



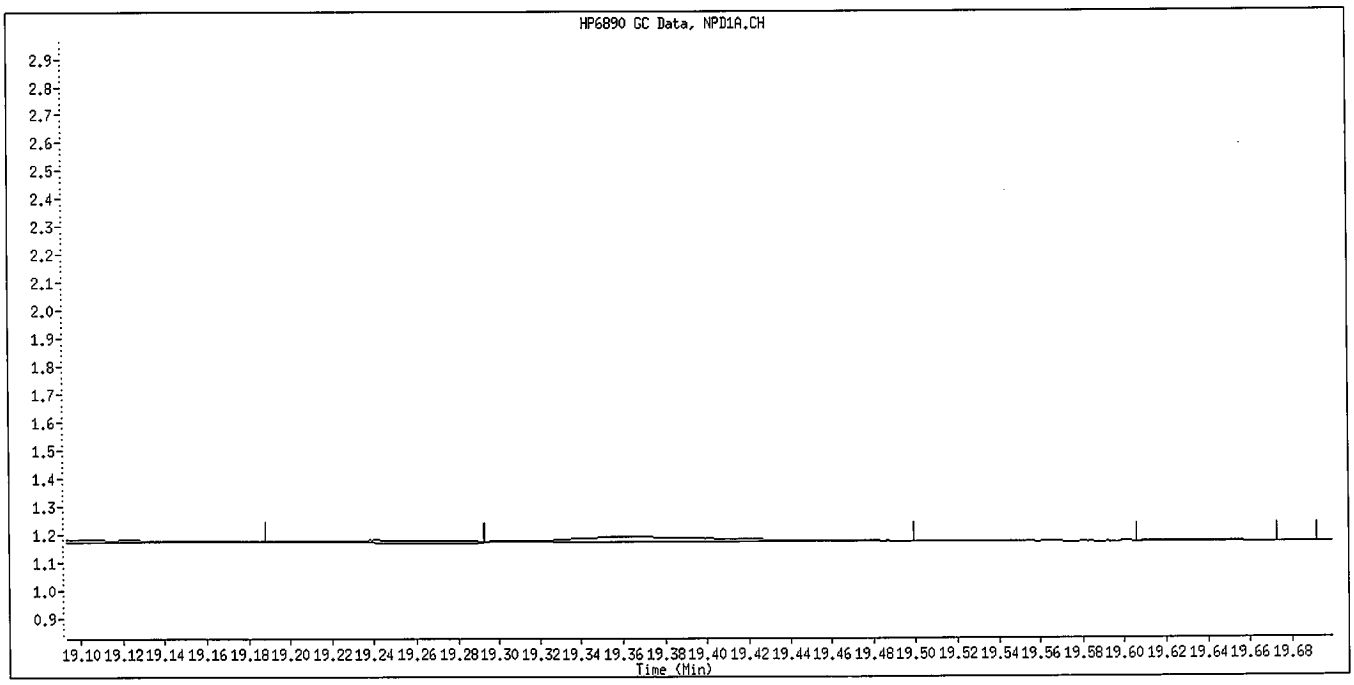
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\007F0701,D
Date : 29-SEP-2009 14:59
Client ID: 8141 L3 CSV1081
Sample Info: 8141 L3 CSV1081
Column phase: RTx-1MS

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration

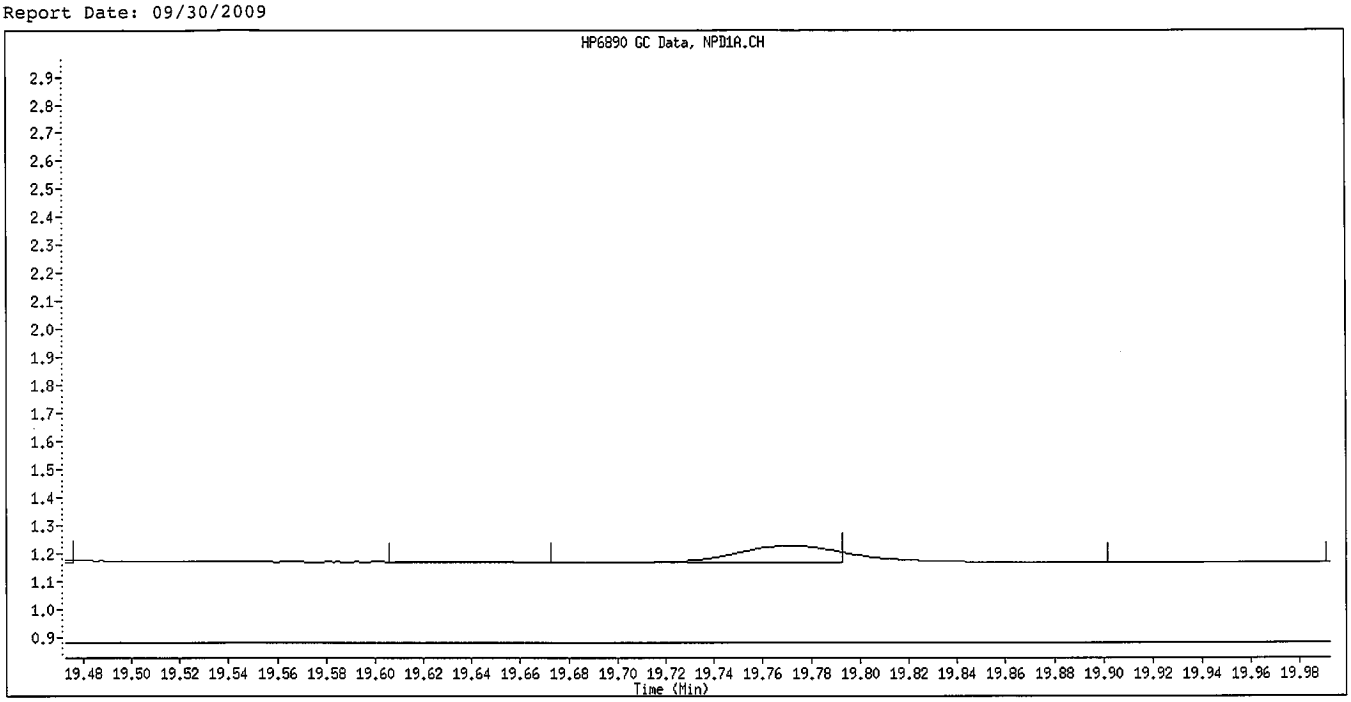


Manual Integration

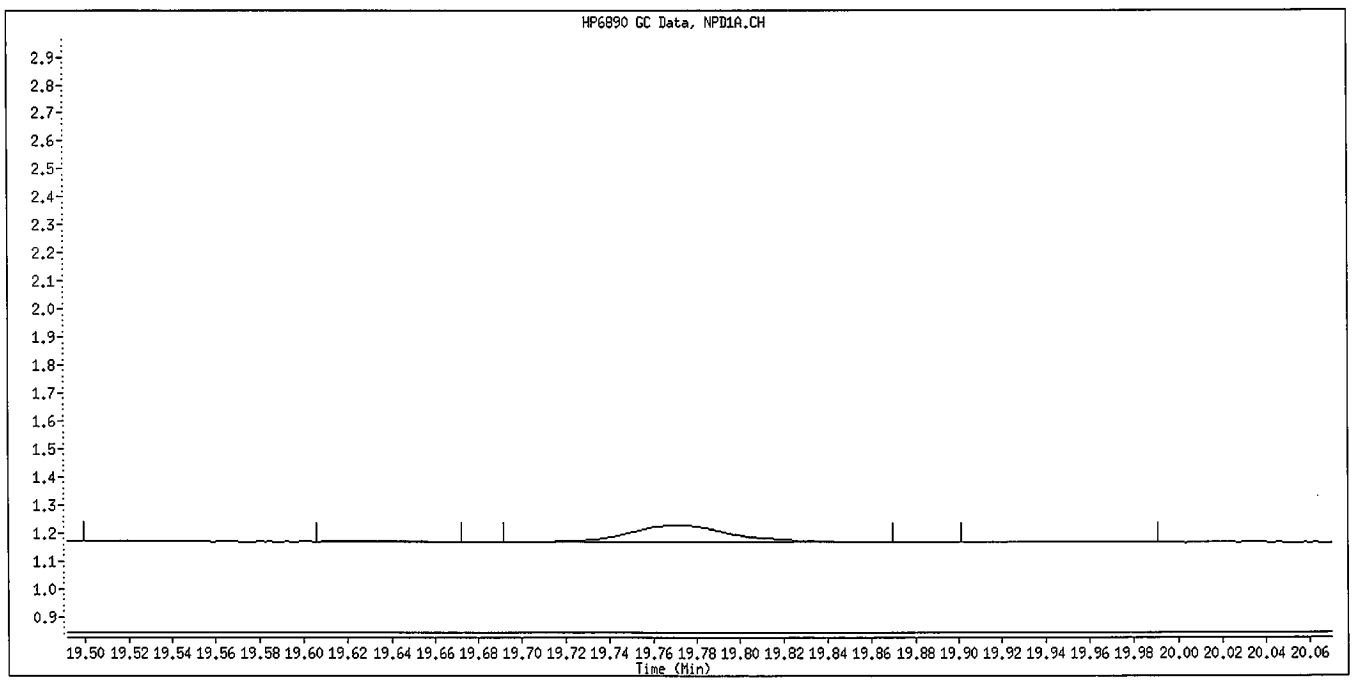
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Merphos-A (Merphos)
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\008F0801.D
Lab Smp Id: 8141 L2 GSV1082 Client Smp ID: 8141 L2 GSV1082
Inj Date : 29-SEP-2009 15:35
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L2 GSV1082
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:59 Cal File: 007F0701.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.264	4.260	(0.312)	182760	0.50000	0.4821
	2 Dichlorvos	5.829	5.821	(0.427)	125004	0.50000	0.4595
	3 Mevinphos	9.372	9.350	(0.686)	34212	0.50000	0.4192
$	4 Chlormefos	9.467	9.466	(0.693)	170562	0.50000	0.4841
	5 Thionazin	12.594	12.581	(0.922)	125634	0.50000	0.5309
	6 Demeton-O	12.844	12.837	(0.940)	43142	0.16250	0.1860
	7 Ethoprop	13.165	13.150	(0.964)	126916	0.50000	0.5041
	8 Naled	13.443	13.431	(0.984)	29826	0.50000	0.4562
*	9 Tributylphosphate	13.660	13.646	(1.000)	499492	2.00000	
	10 Sulfotepp	14.110	14.105	(1.033)	181698	0.50000	0.5063
	11 Phorate	14.199	14.191	(1.039)	152671	0.50000	0.5098
	12 Dimethoate	14.475	14.366	(1.060)	80163	0.50000	0.4916(M)
	13 Demeton-S	14.671	14.636	(1.074)	82067	0.34000	0.3205
	14 Simazine	14.803	14.756	(1.084)	46345	0.50000	0.5400
	15 Atrazine	15.005	14.971	(1.098)	52535	0.50000	0.4982
	16 propazine	15.172	15.152	(1.111)	57260	0.50000	0.5246
	17 Disulfoton	15.850	15.835	(0.586)	82596	0.50000	0.4716
	18 Diazinon	15.912	15.901	(0.588)	162836	0.50000	0.5465
	19 Methyl Parathion	16.835	16.802	(0.622)	93936	0.50000	0.5056
	20 Ronnel	17.440	17.422	(0.644)	92833	0.50000	0.4677
	21 Malathion	18.111	18.094	(0.669)	76759	0.50000	0.4626
	22 Fenthion	18.275	18.250	(0.675)	81008	0.50000	0.4556
	23 Parathion	18.399	18.360	(0.680)	64057	0.50000	0.4997(M)
	24 Chlorpyrifos	18.428	18.416	(0.681)	186478	0.50000	0.5898(M)
	25 Trichloronate	18.935	18.921	(0.700)	111835	0.50000	0.4691
	26 Anilazine	19.399	19.331	(0.717)	3022	0.50000	0.5085(M)
	27 Merphos-A (Merphos)	19.770	19.763	(0.731)	2369	0.50000	0.6825
	28 Tetrachlorvinphos (Stirophos)	20.513	20.483	(0.758)	56276	0.50000	0.4913
	29 Tokuthion	21.261	21.237	(0.786)	102445	0.50000	0.4616
	30 Merphos-B (Merphos Oxone)	21.510	21.486	(0.795)	107384	0.50000	0.5822
	31 Carbophenothion-methyl	22.260	22.219	(0.823)	68129	0.50000	0.4573
	32 Fensulfothion	22.487	22.401	(0.831)	74021	0.50000	0.4661
	33 Bolstar / Famphur	23.610	23.575	(0.872)	173165	1.00000	0.9462

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.938	23.899	(0.885)	94798	0.50000	0.4841
$	35 Triphenyl phosphate	25.259	25.226	(0.933)	71967	0.50000	0.4737
	36 Phosmet	25.794	25.748	(0.953)	62864	0.50000	0.4567
	37 EPN	26.094	26.075	(0.964)	94375	0.50000	0.4898
	38 Azinphos-methyl	26.605	26.574	(0.983)	58851	0.50000	0.4302
*	39 TOCP	27.062	27.058	(1.000)	356765	2.00000	
	40 Azinphos-ethyl	27.181	27.159	(1.004)	90611	0.50000	0.4978
	41 Coumaphos	27.708	27.686	(1.024)	63688	0.50000	0.4513
M	42 Total Demeton				125209	0.50000	0.5066
M	43 Merphos				109753	0.50000	0.4825

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

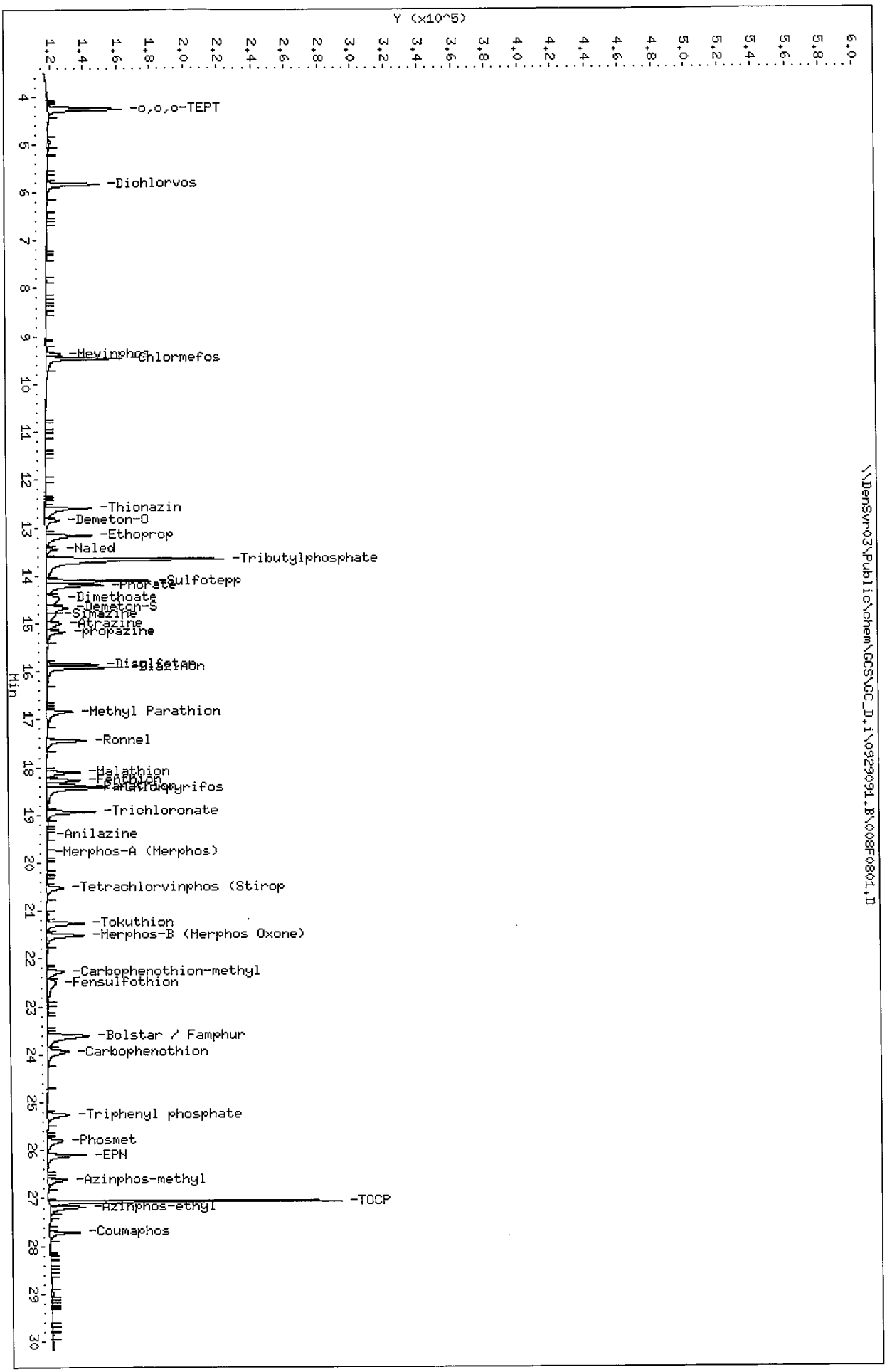
Instrument ID: GC_D.i
Lab File ID: 008F0801.D
Lab Smp Id: 8141 L2 GSV1082
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L2 GSV1082
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	499492	-32.86
39 TOCP	484260	242130	968520	356765	-26.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.66	0.16
39 TOCP	27.06	26.56	27.56	27.06	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.



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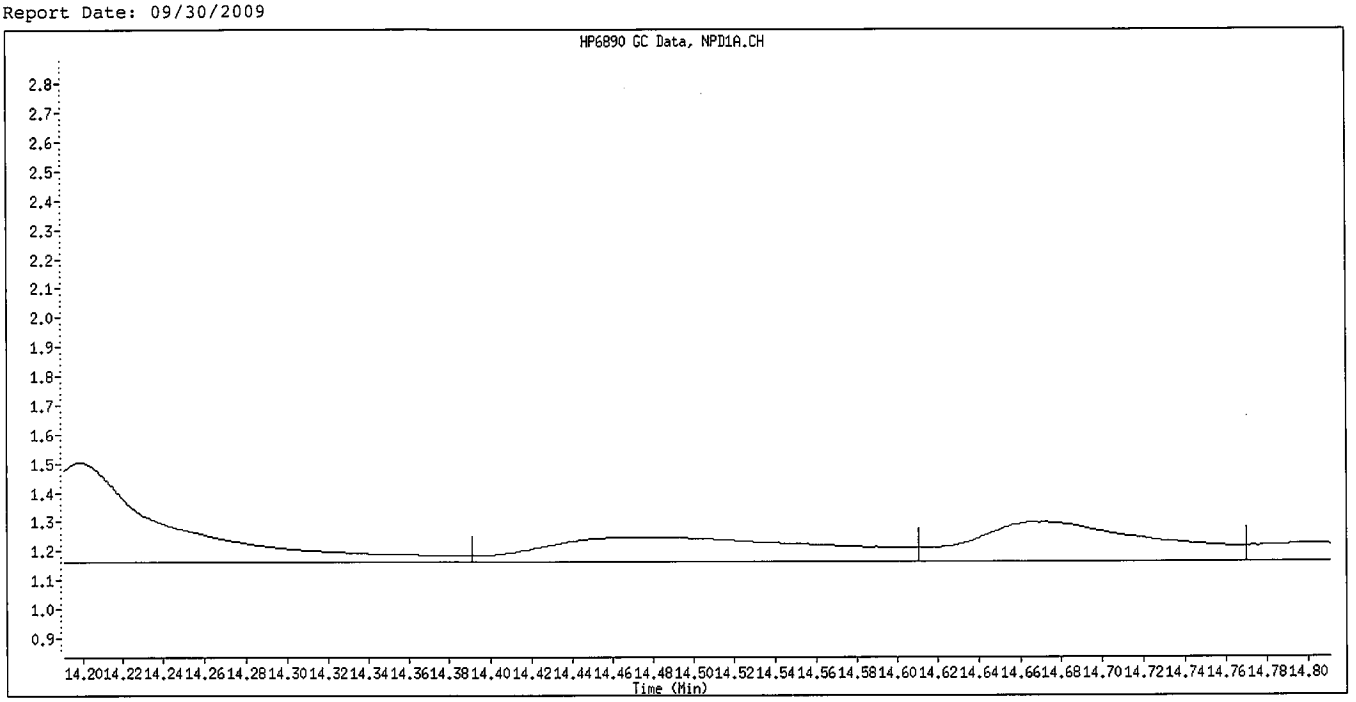
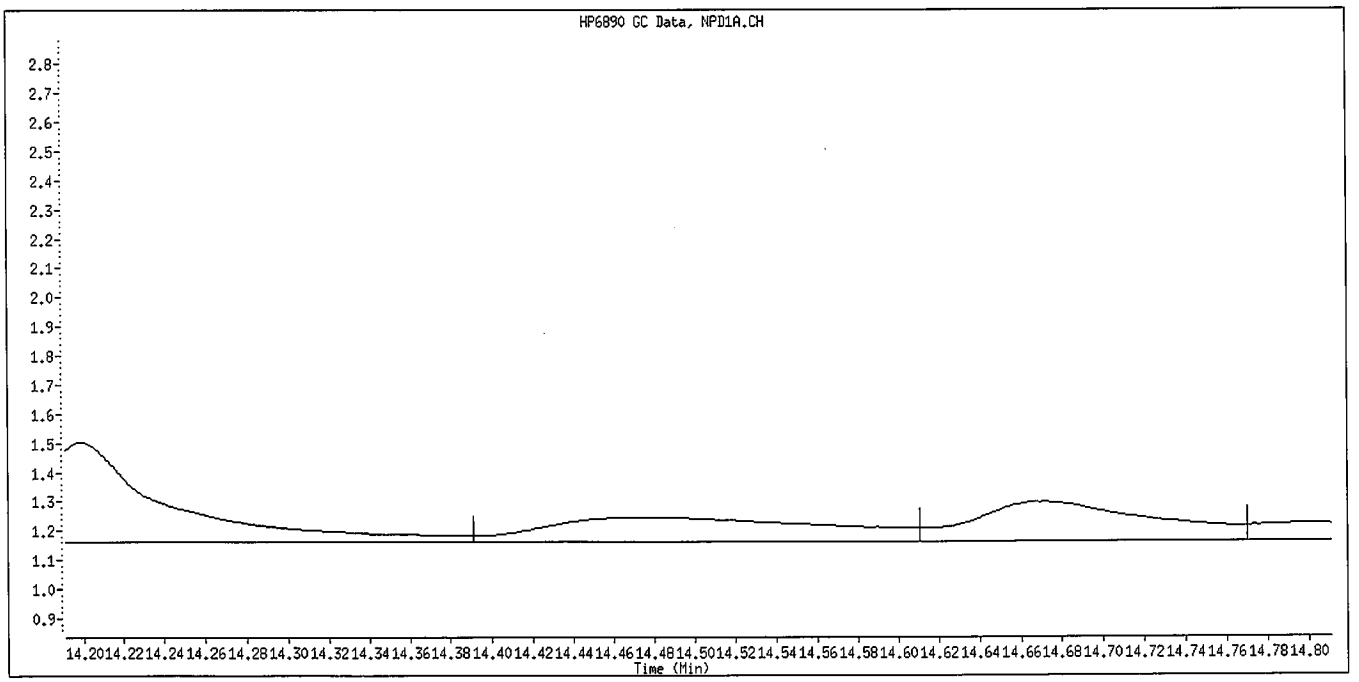
Date : 29-SEP-2009 15:35
Client ID: 8141 L2 GSV1082
Sample Info: 8141 L2 GSV1082
Column phase: RTx-1MS

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Dimethoate
CAS #:
Report Date: 09/30/2009



Original Integration

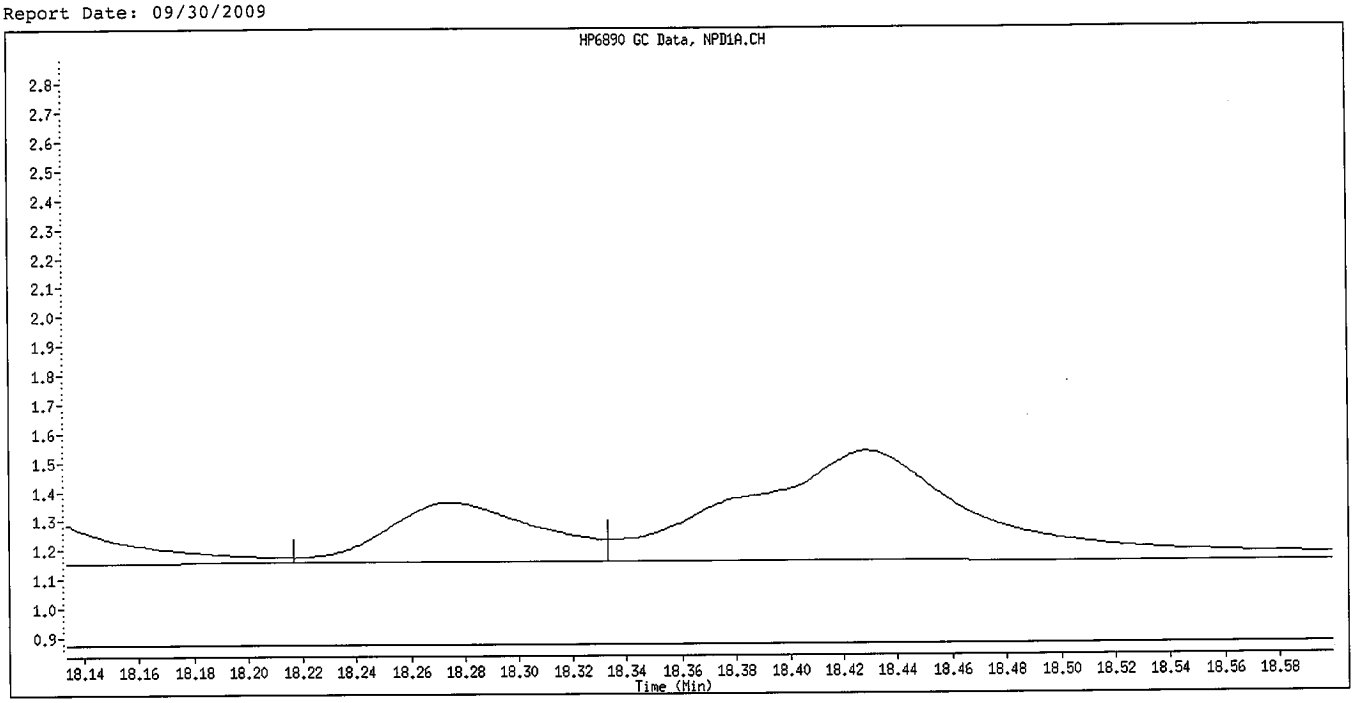


Manual Integration

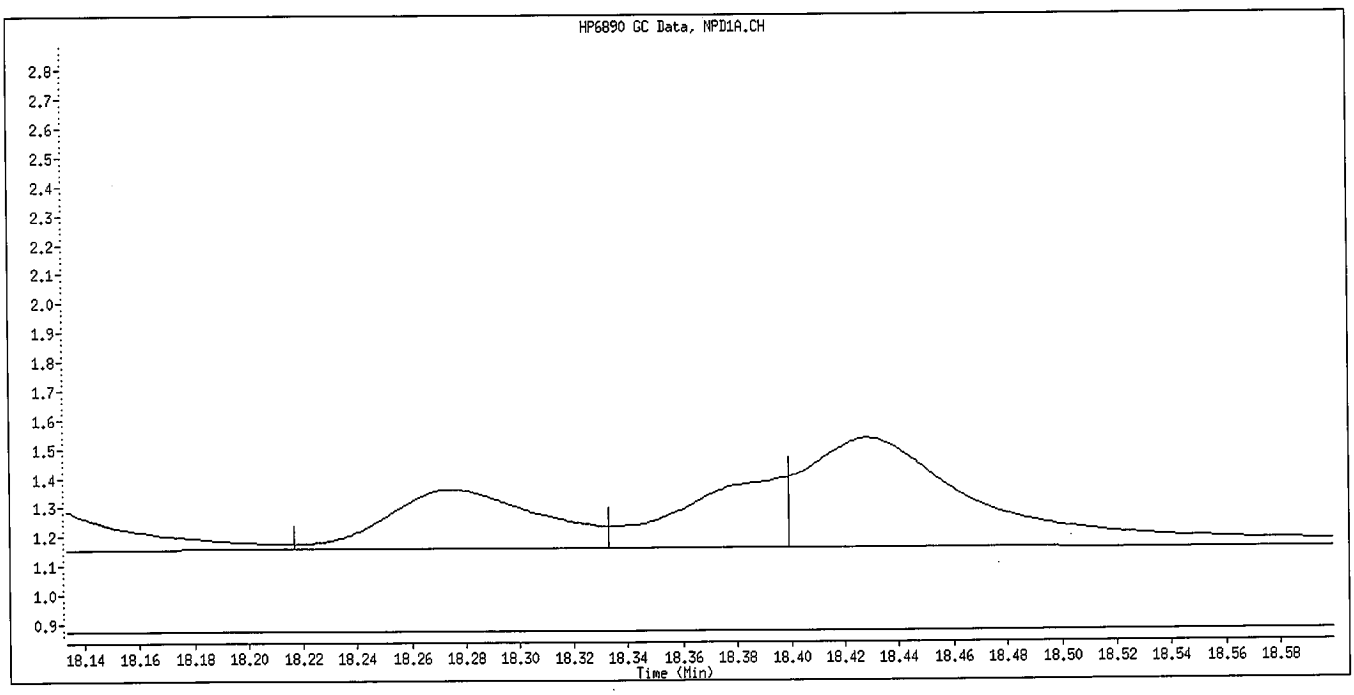
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Parathion
CAS #:
Report Date: 09/30/2009



Original Integration

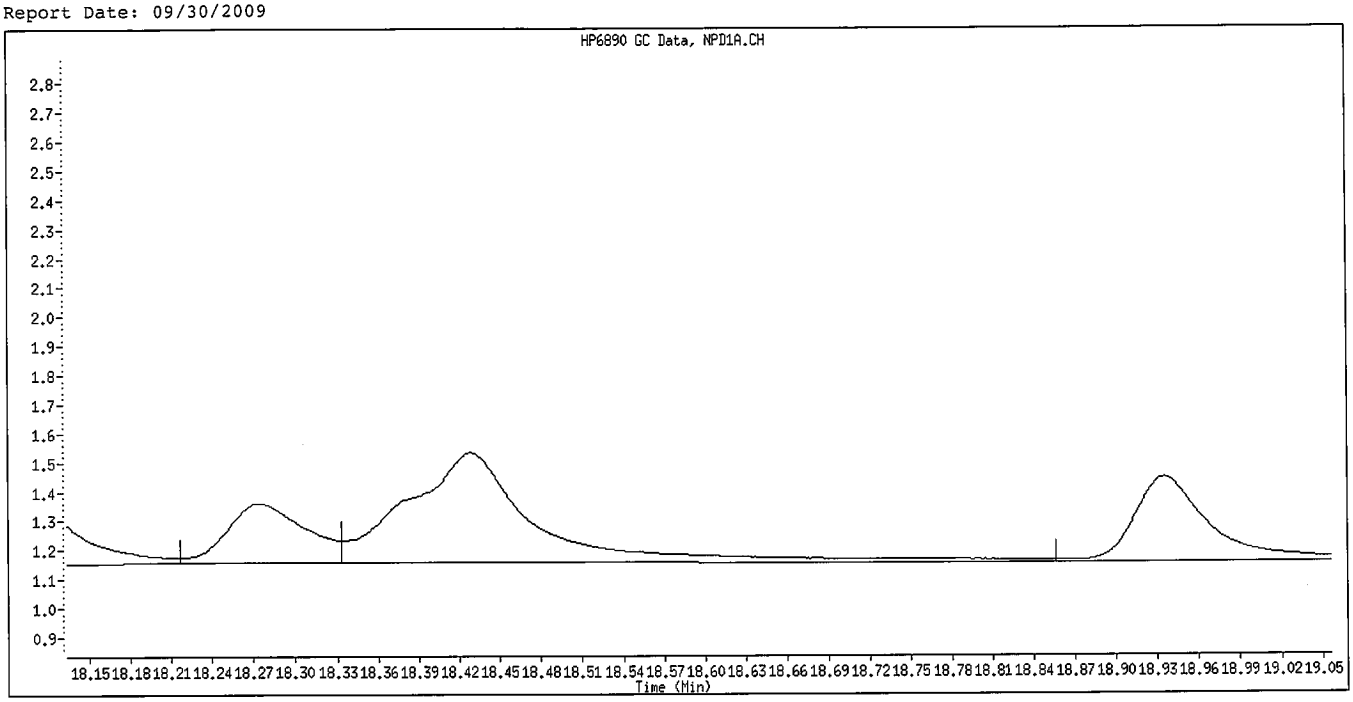


Manual Integration

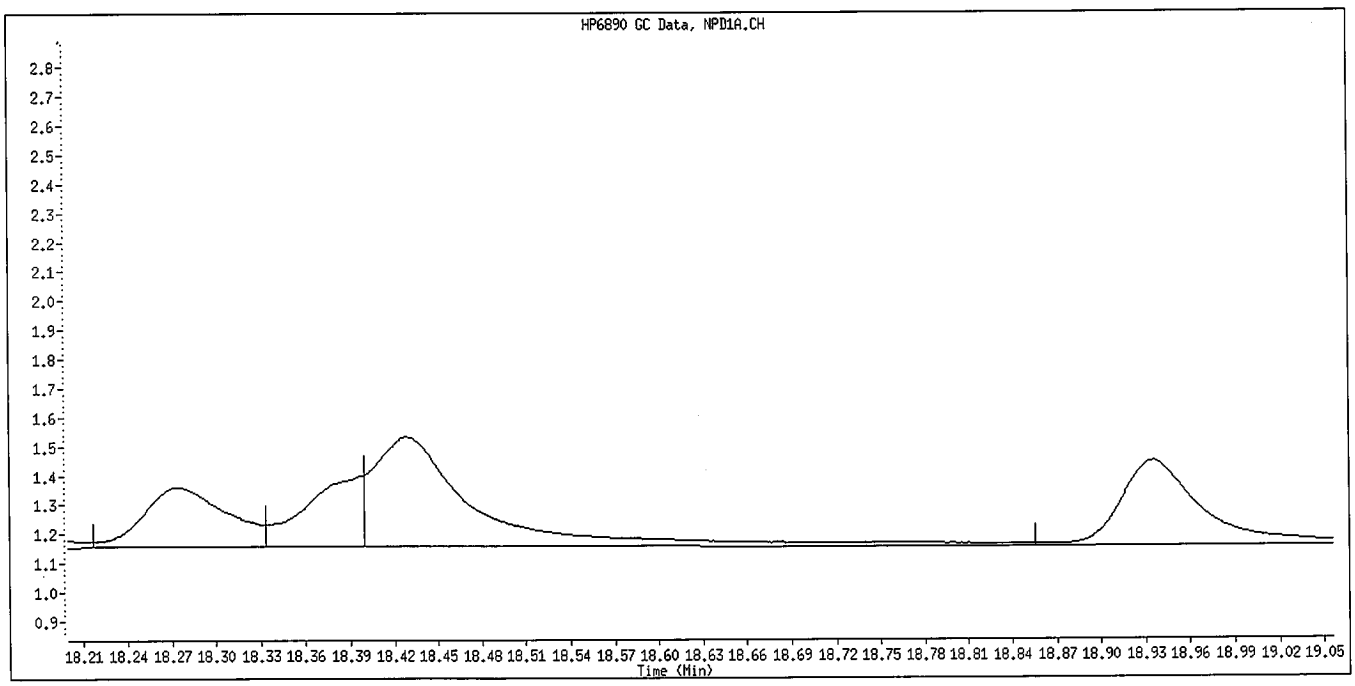
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Chlorpyrifos
CAS #:
Report Date: 09/30/2009



Original Integration

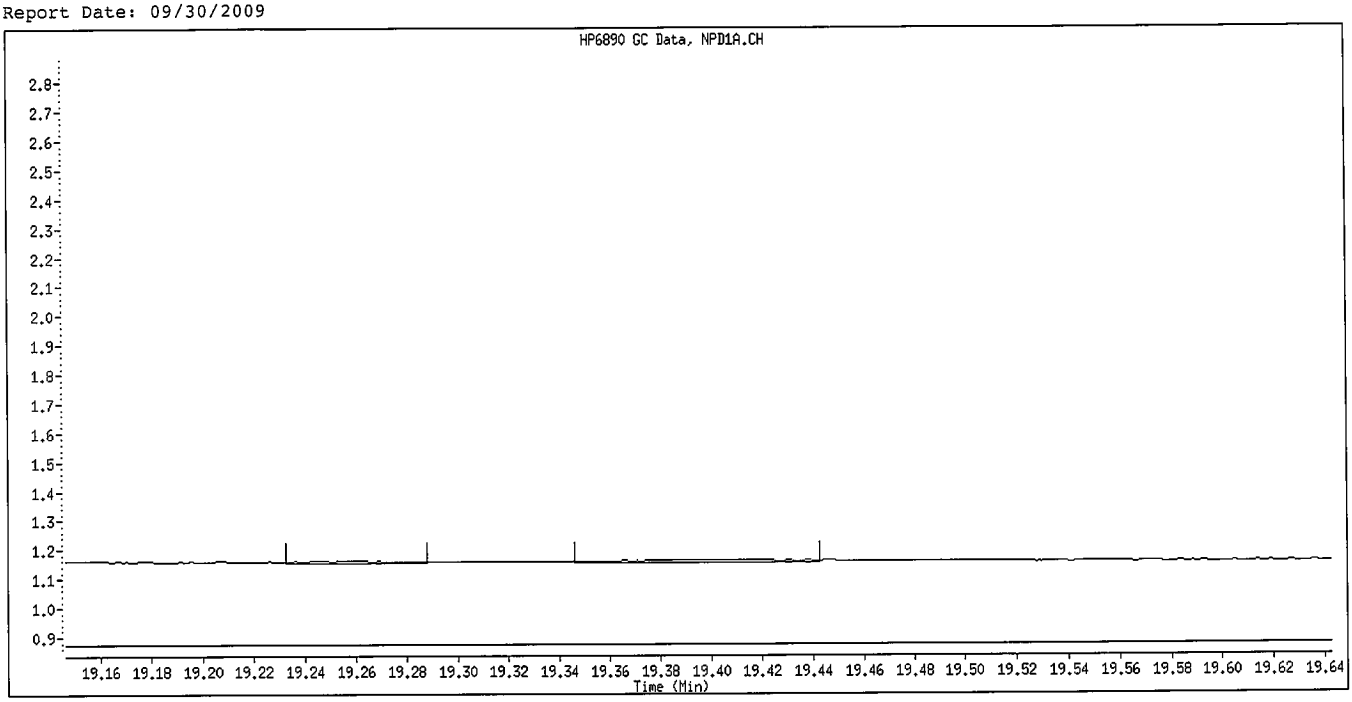


Manual Integration

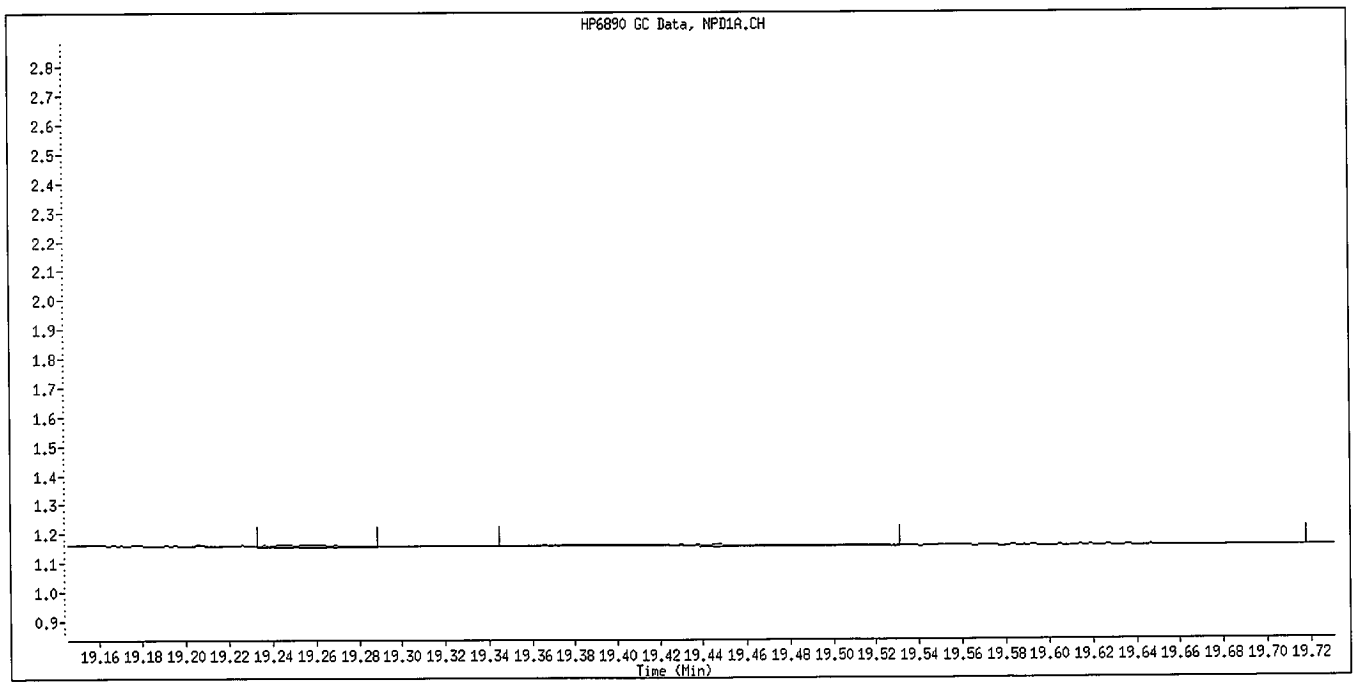
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Unknown

Baseline
YL 9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\009F0901.D
Lab Smp Id: 8141 L1 GSV1083 Client Smp ID: 8141 L1 GSV1083
Inj Date : 29-SEP-2009 16:12
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L1 GSV1083
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:31 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 15:35 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.264	4.260	(0.312)	73387	0.20000	0.2156
	2 Dichlorvos	5.829	5.821	(0.427)	49261	0.20000	0.2016
	3 Mevinphos	9.385	9.350	(0.687)	5844	0.20000	0.2135
$	4 Chlormefos	9.466	9.466	(0.693)	61214	0.20000	0.1934
	5 Thionazin	12.599	12.581	(0.922)	26137	0.20000	0.1921
	6 Demeton-O	12.851	12.837	(0.940)	8888	0.06500	0.04758
	7 Ethoprop	13.174	13.150	(0.964)	39547	0.20000	0.1960
	8 Naled	13.454	13.431	(0.985)	5310	0.20000	0.2071
*	9 Tributylphosphate	13.665	13.646	(1.000)	448625	2.00000	
	10 Sulfotepp	14.113	14.105	(1.033)	69030	0.20000	0.2142
	11 Phorate	14.201	14.191	(1.039)	65747	0.20000	0.1666
	12 Dimethoate	Compound Not Detected.					
	13 Demeton-S	14.700	14.636	(1.076)	38231	0.13600	0.1375
	14 Simazine	Compound Not Detected.					
	15 Atrazine	15.039	14.971	(1.100)	18424	0.20000	0.1945
	16 propazine	15.193	15.152	(1.112)	21269	0.20000	0.2170
	17 Disulfoton	15.859	15.835	(0.586)	20950	0.20000	0.2021
	18 Diazinon	15.921	15.901	(0.588)	64704	0.20000	0.2256
	19 Methyl Parathion	16.876	16.802	(0.624)	25143	0.20000	0.1987(M)
	20 Ronnel	17.459	17.422	(0.645)	30043	0.20000	0.2055
	21 Malathion	18.127	18.094	(0.670)	25410	0.20000	0.1590
	22 Fenthion	18.299	18.250	(0.676)	25618	0.20000	0.2056
	23 Parathion	Compound Not Detected.					
	24 Chlorpyrifos	18.445	18.416	(0.682)	85896	0.20000	0.2822
	25 Trichloronate	18.951	18.921	(0.700)	39953	0.20000	0.2192(M)
	26 Anilazine	Compound Not Detected.					
	27 Merphos-A (Merphos)	Compound Not Detected.					
	28 Tetrachlorvinphos (Stirophos)	20.538	20.483	(0.759)	17165	0.20000	0.2534(M)
	29 Tokuthion	21.275	21.237	(0.786)	38426	0.20000	0.2055
	30 Merphos-B (Merphos Oxone)	21.526	21.486	(0.795)	40761	0.20000	0.2296
	31 Carbophenothion-methyl	22.301	22.219	(0.824)	21792	0.20000	0.2068(M)
	32 Fensulfothion	22.560	22.401	(0.834)	20933	0.20000	0.2054(M)
	33 Bolstar / Famphur	23.637	23.575	(0.873)	61134	0.40000	0.4044(M)

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.968	23.899	(0.886)	35249	0.20000	0.2005(M)
$	35 Triphenyl phosphate	25.275	25.226	(0.934)	25377	0.20000	0.2028
	36 Phosmet	25.826	25.748	(0.954)	21966	0.20000	0.2059(M)
	37 EPN	26.108	26.075	(0.965)	34992	0.20000	0.2004
	38 Azinphos-methyl	26.621	26.574	(0.984)	21324	0.20000	0.2100
*	39 TOCP	27.064	27.058	(1.000)	343472	2.00000	
	40 Azinphos-ethyl	27.196	27.159	(1.005)	37958	0.20000	0.2166
	41 Coumaphos	27.718	27.686	(1.024)	22677	0.20000	0.2071
M	42 Total Demeton				47119	0.20000	0.1851
M	43 Merphos				40761	0.20000	0.2015

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

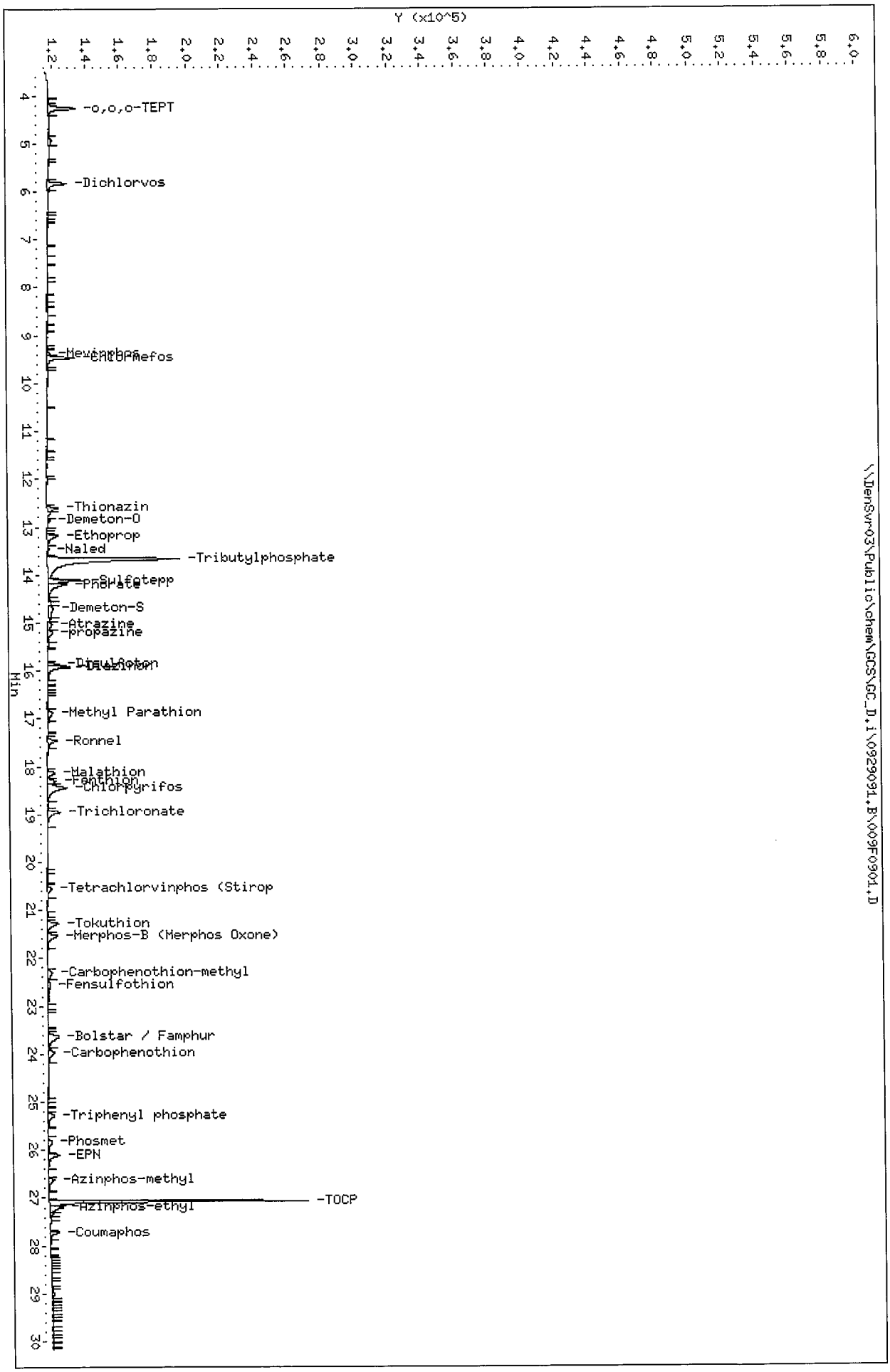
Instrument ID: GC_D.i
Lab File ID: 009F0901.D
Lab Smp Id: 8141 L1 GSV1083
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 L1 GSV1083
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	448625	-39.70
39 TOCP	484260	242130	968520	343472	-29.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.67	0.20
39 TOCP	27.06	26.56	27.56	27.06	0.03

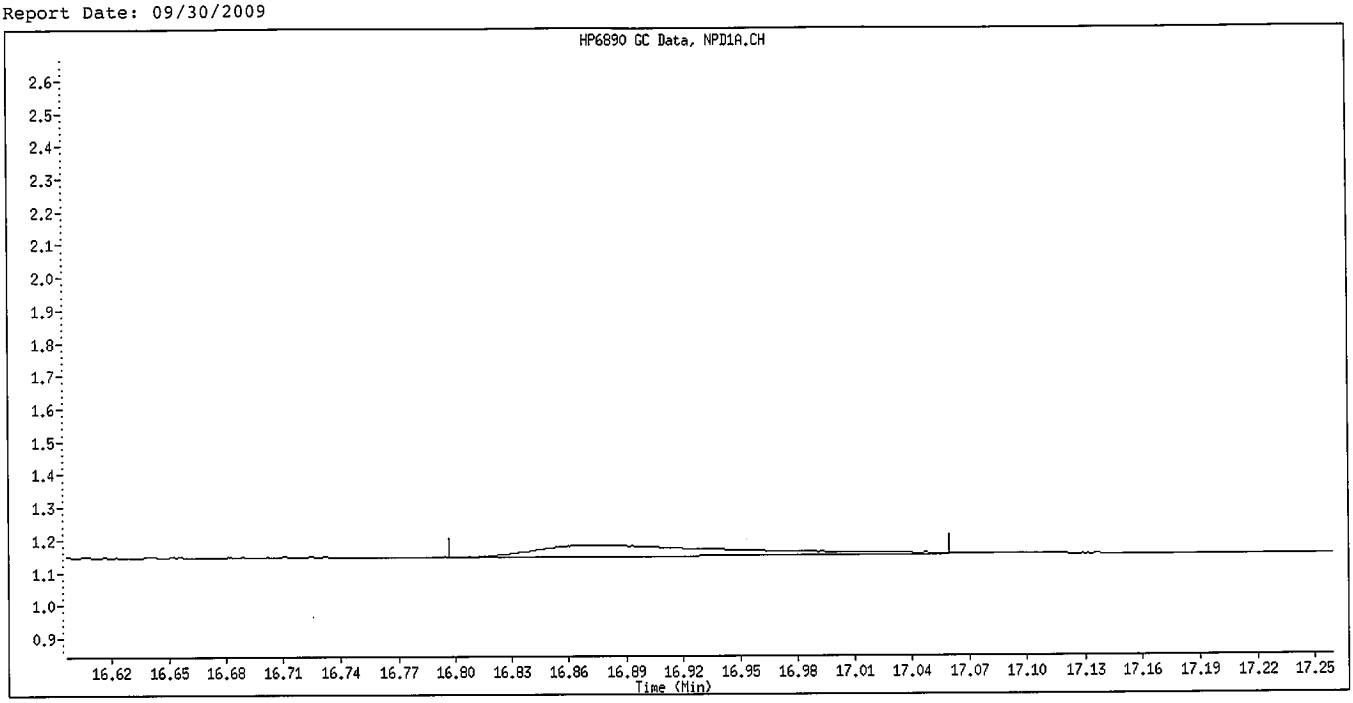
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



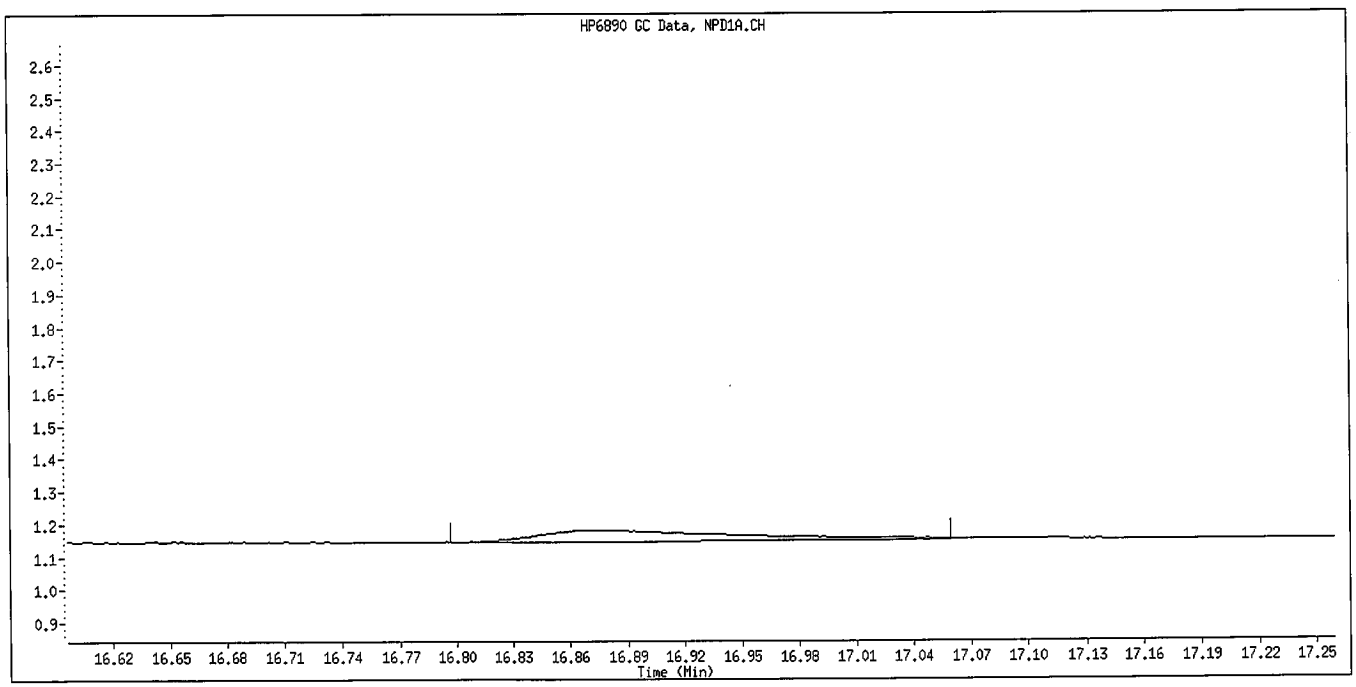
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\009F0901,D
Date : 29-SEP-2009 16:12
Client ID: 8141 L1 GSV1083
Sample Info: 8141 L1 GSV1083
Column phase: RTx-1MS

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Methyl Parathion
CAS #: 298-00-0
Report Date: 09/30/2009



Original Integration

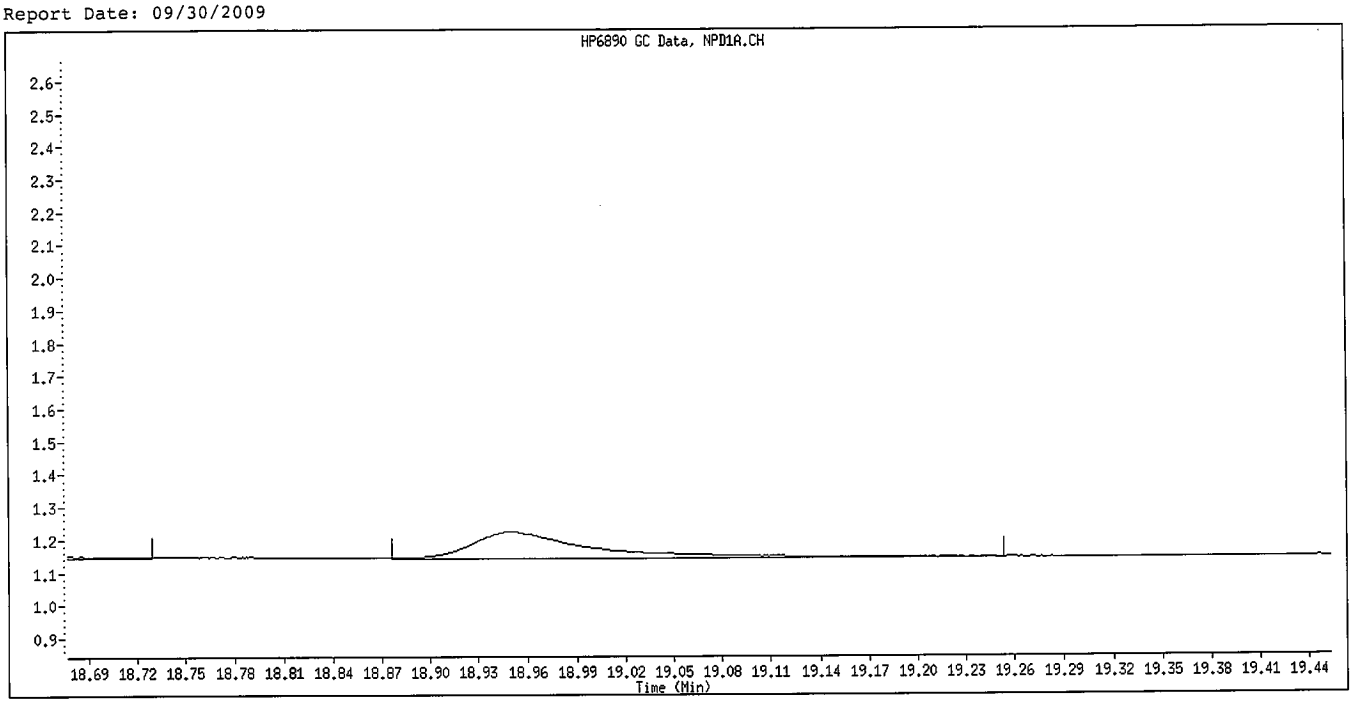


Manual Integration

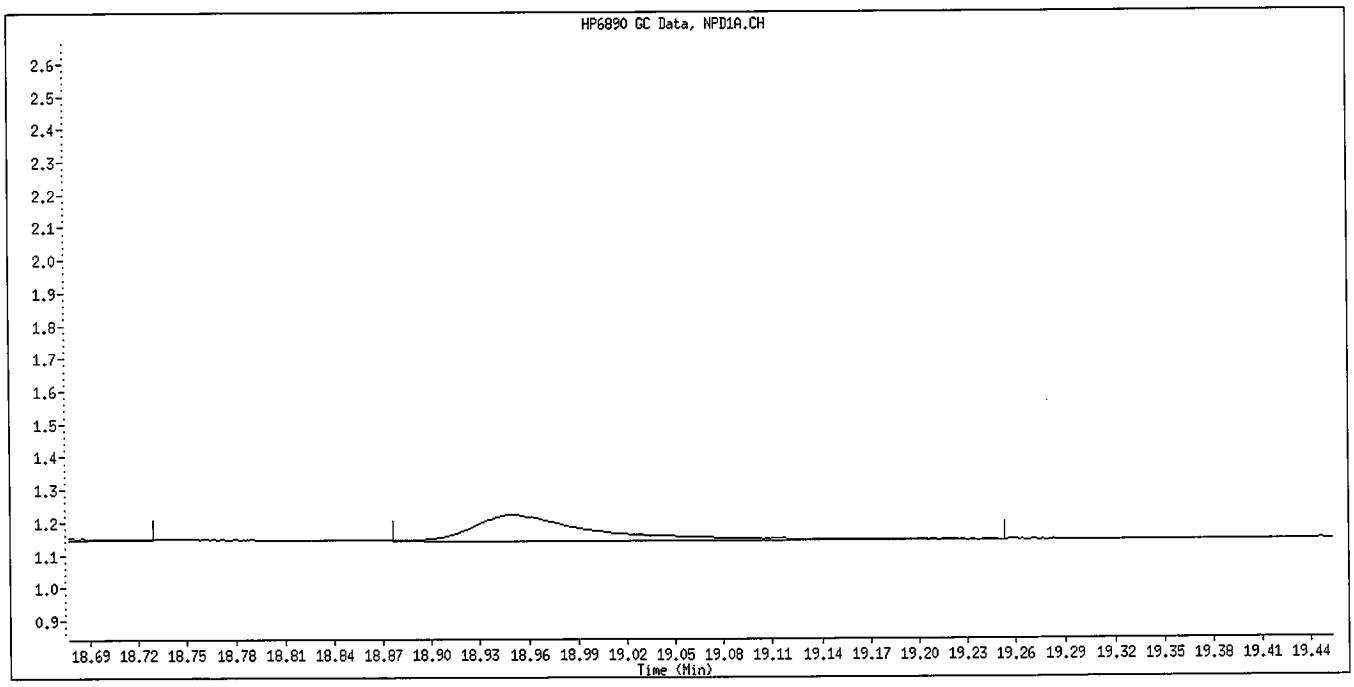
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Trichloronate
CAS #:
Report Date: 09/30/2009



Original Integration

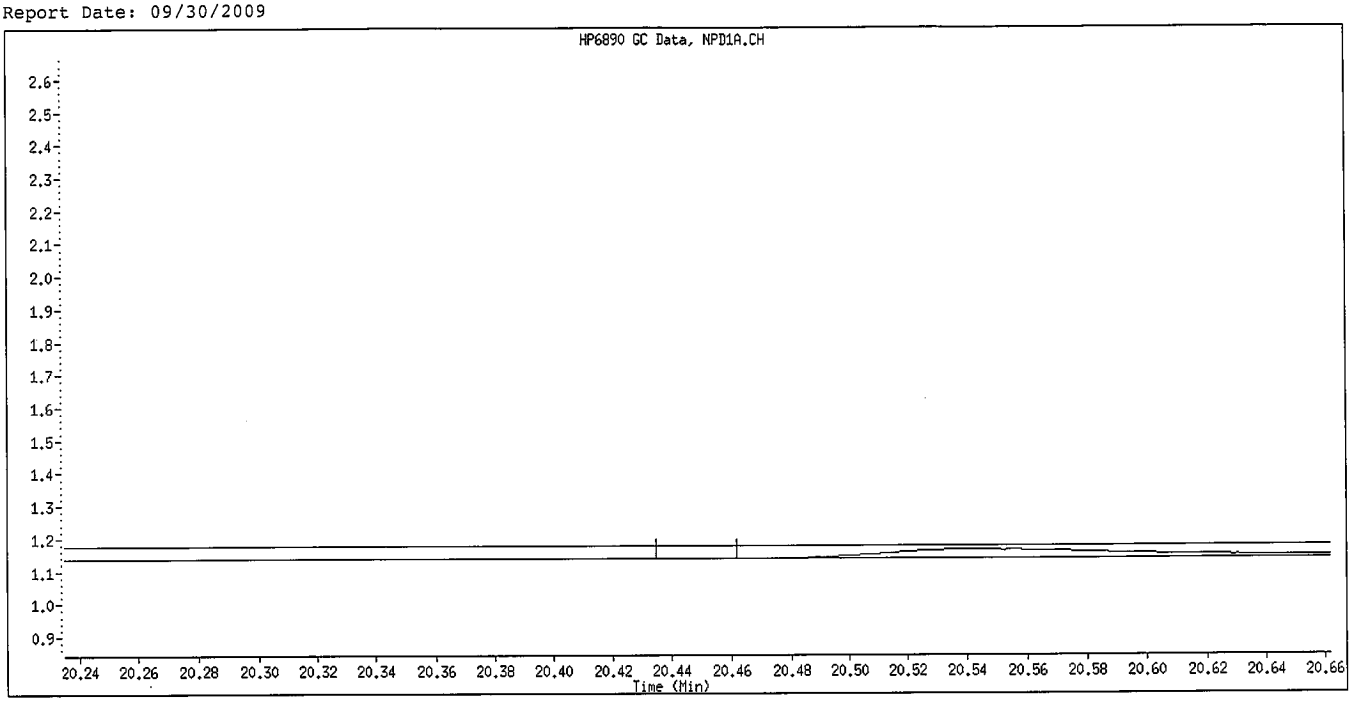


Manual Integration

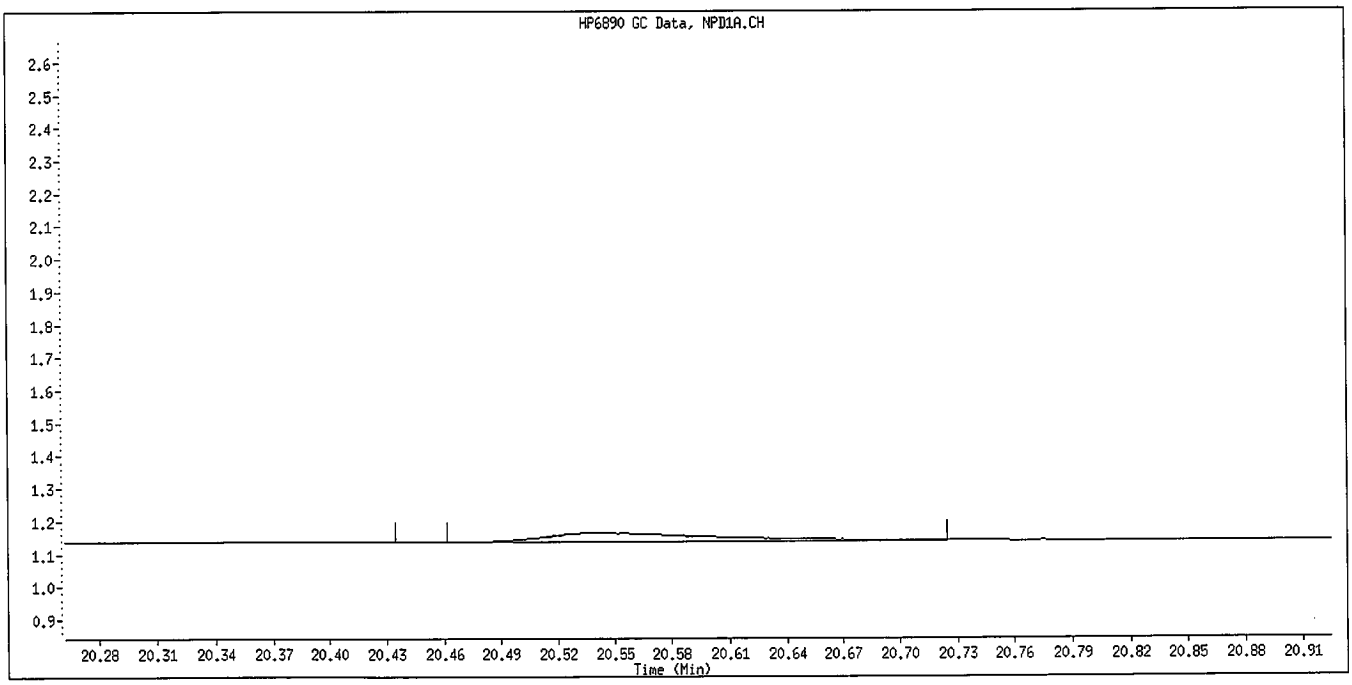
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

JL 9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Tetrachlorvinphos (Stirophos)
CAS #:
Report Date: 09/30/2009



Original Integration

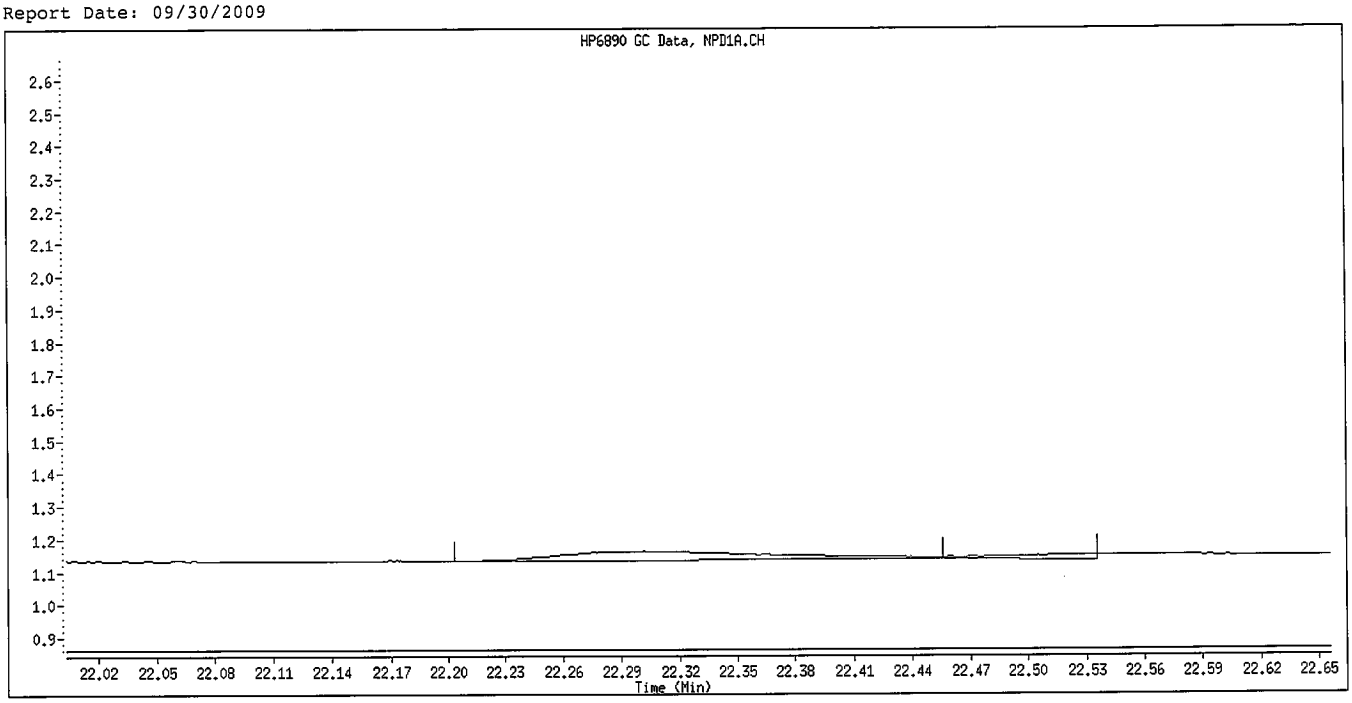


Manual Integration

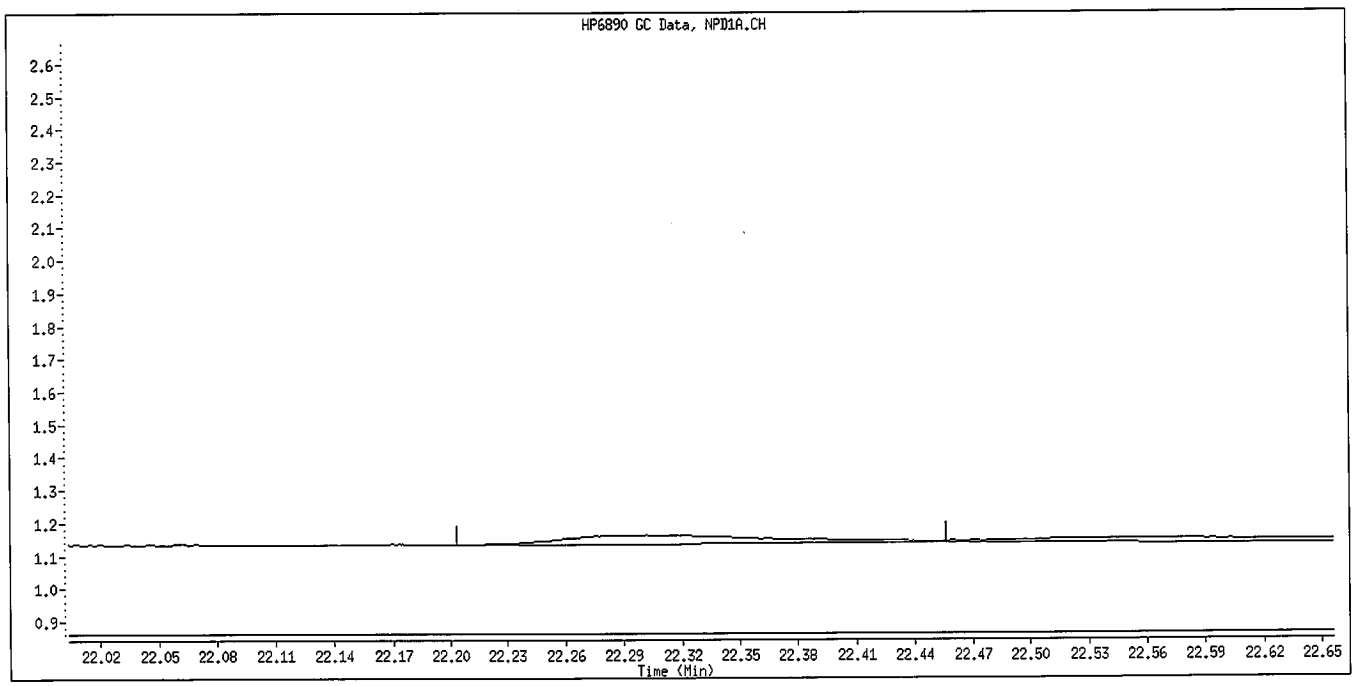
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Carbophenothion-methyl
CAS #:
Report Date: 09/30/2009



Original Integration

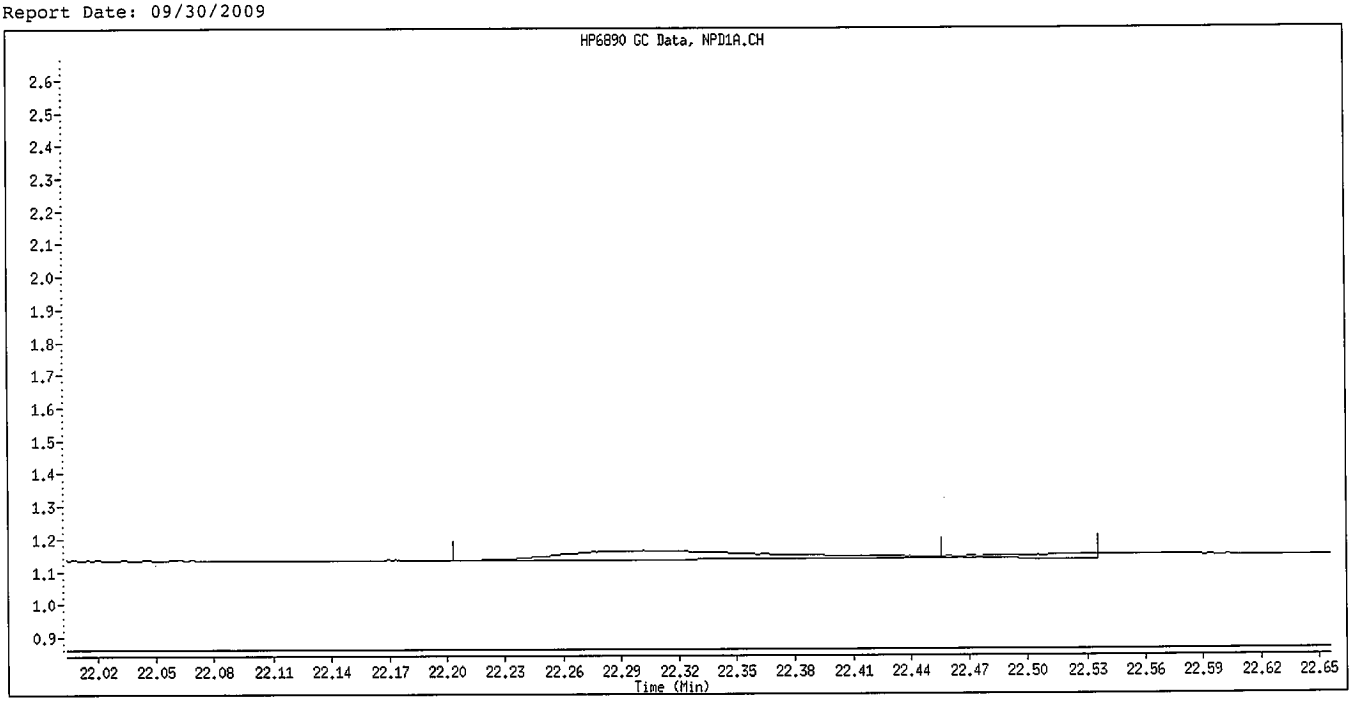


Manual Integration

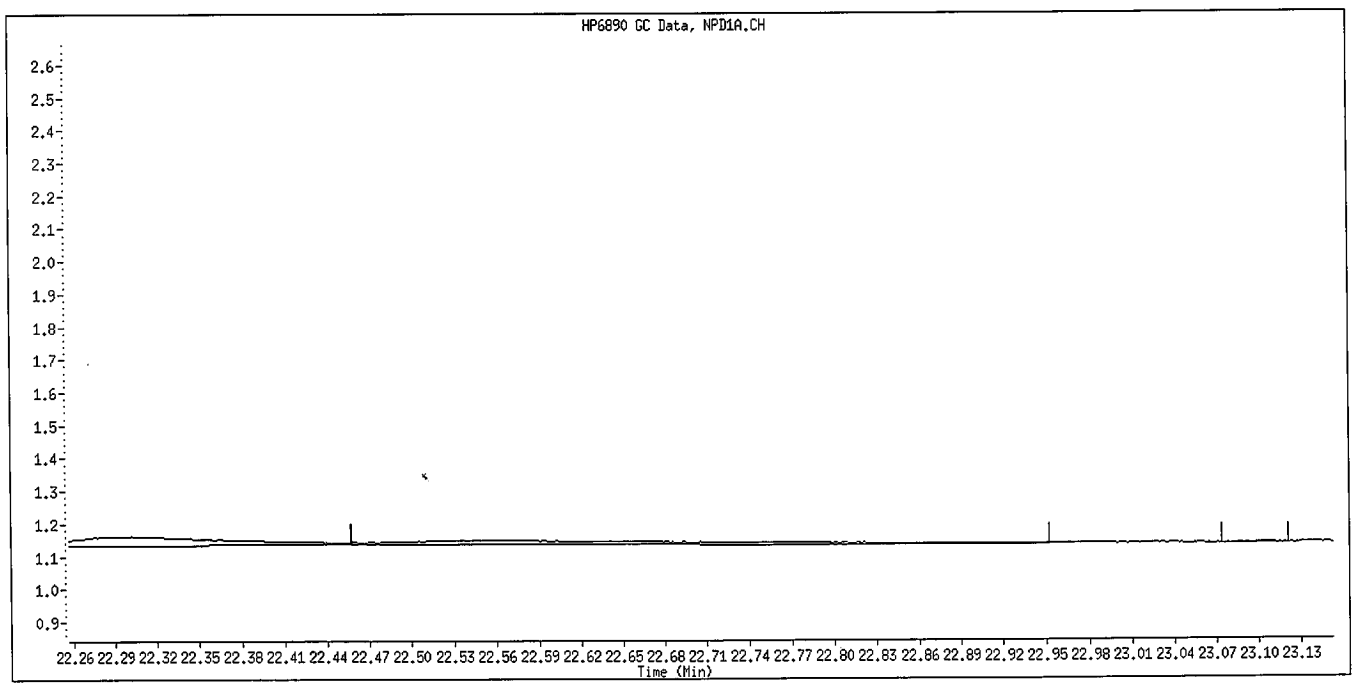
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Fensulfothion
CAS #:
Report Date: 09/30/2009



Original Integration

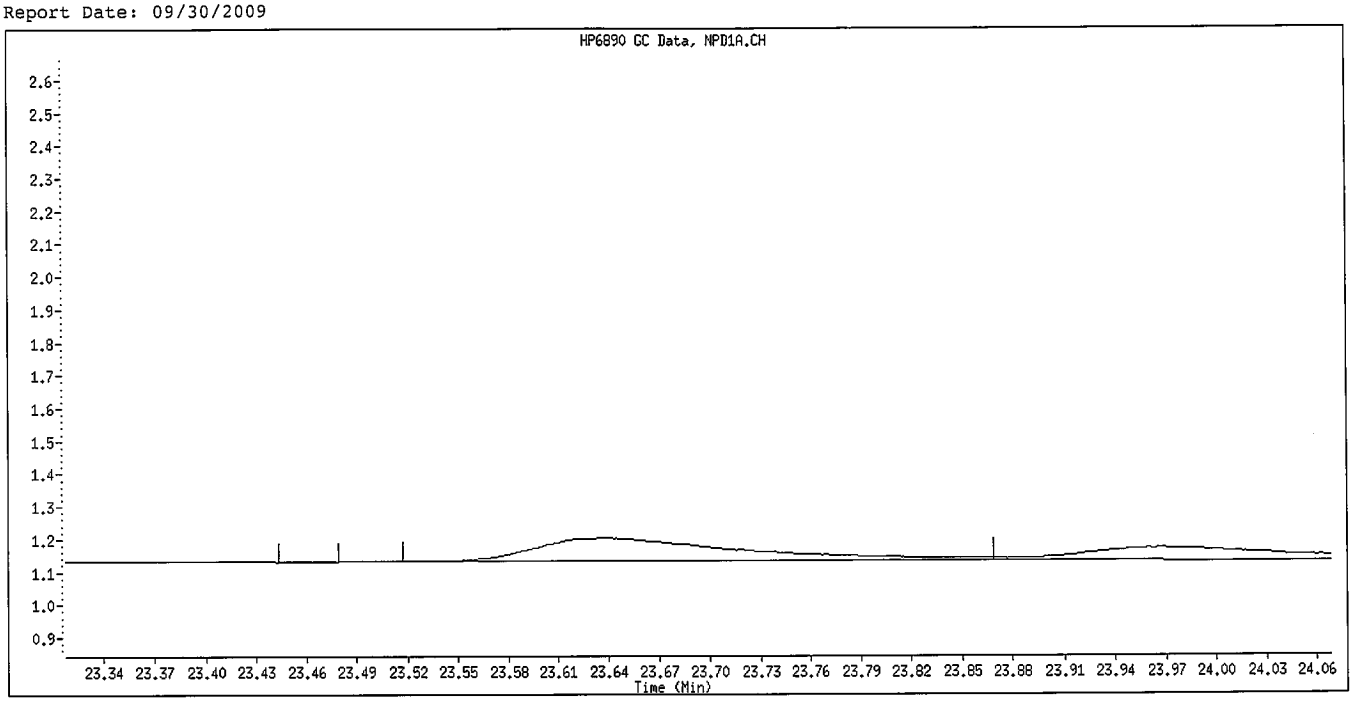


Manual Integration

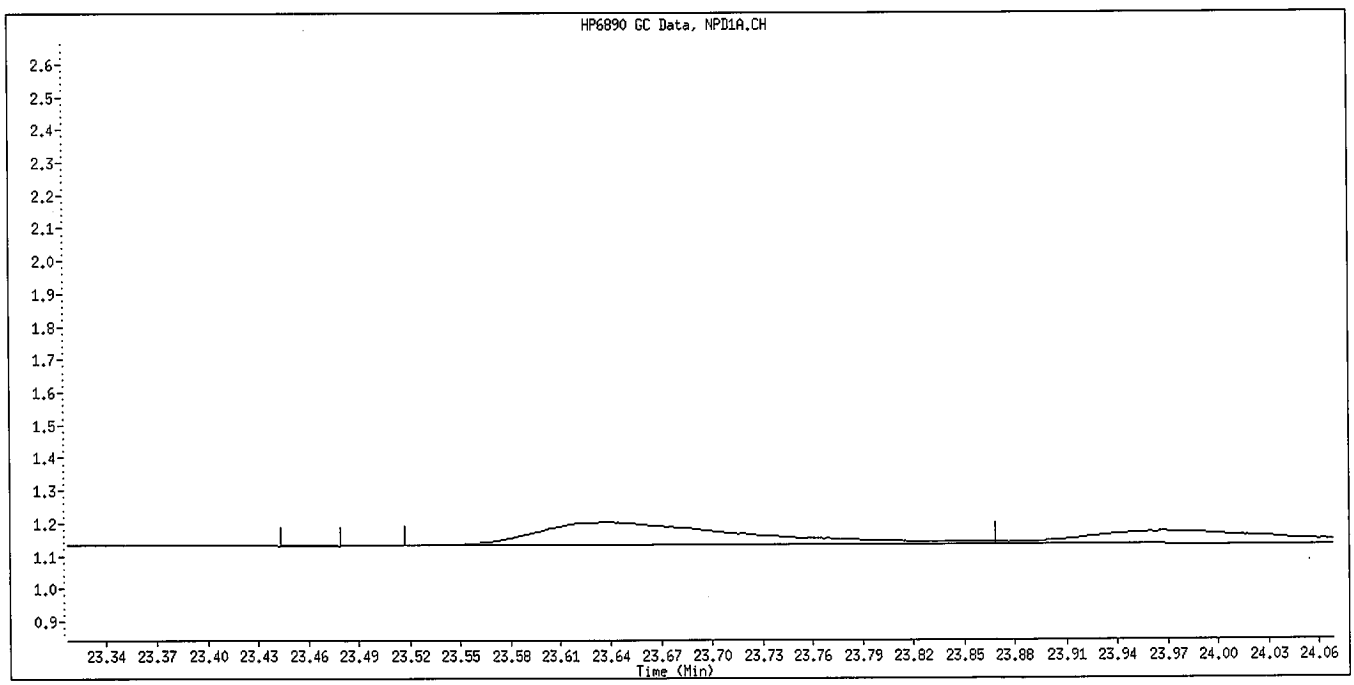
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Bolstar / Famphur
CAS #:
Report Date: 09/30/2009



Original Integration

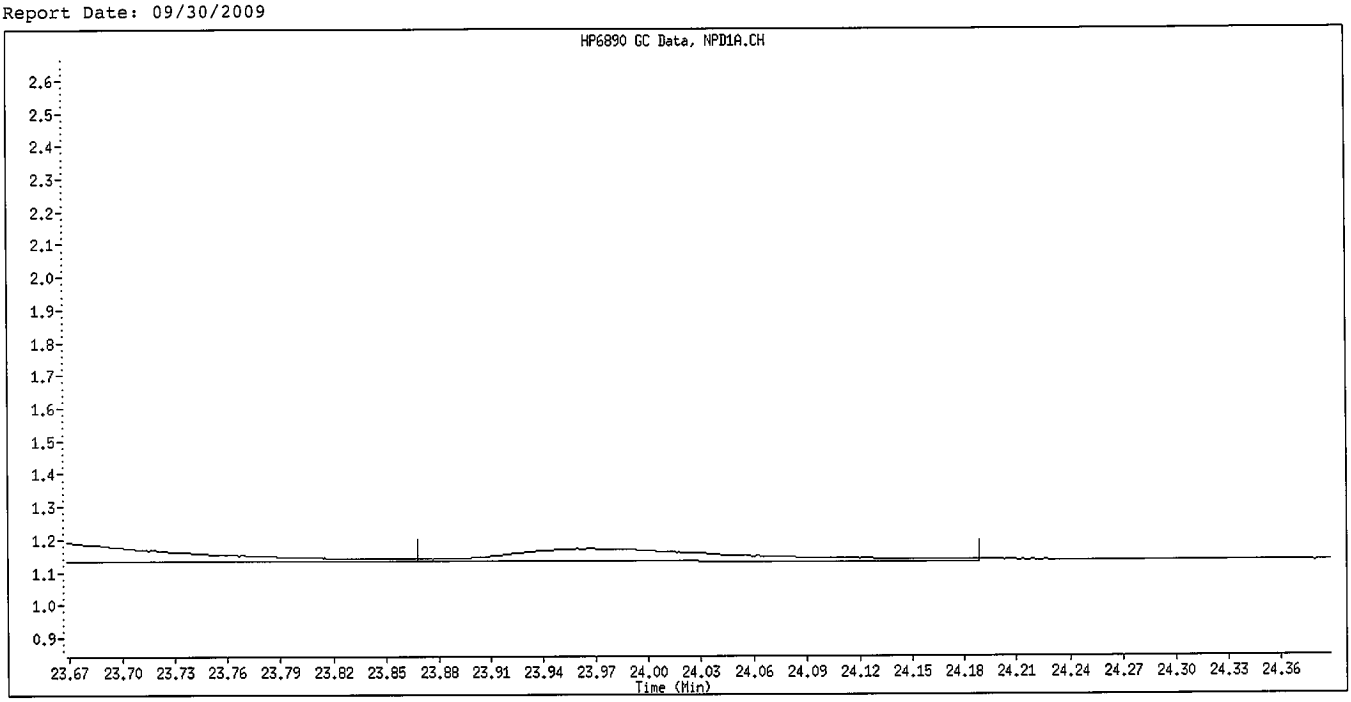


Manual Integration

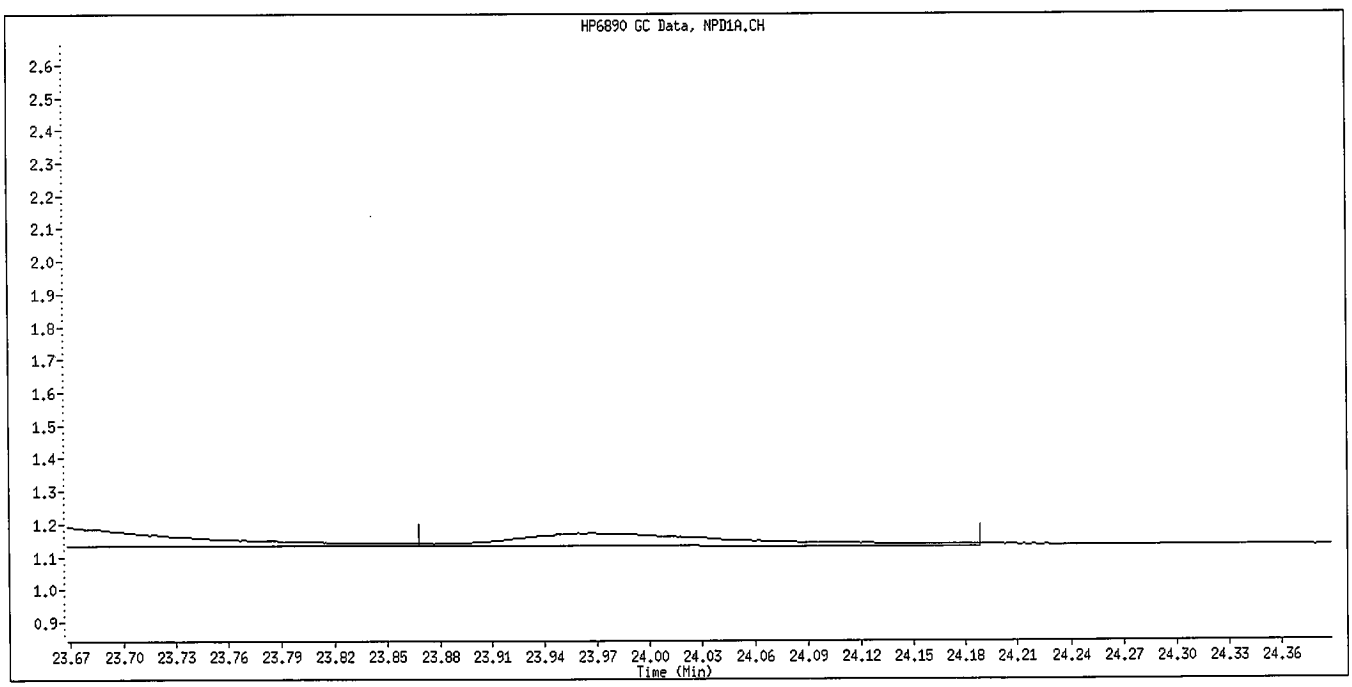
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

YL 9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Carbophenothion
CAS #:
Report Date: 09/30/2009



Original Integration

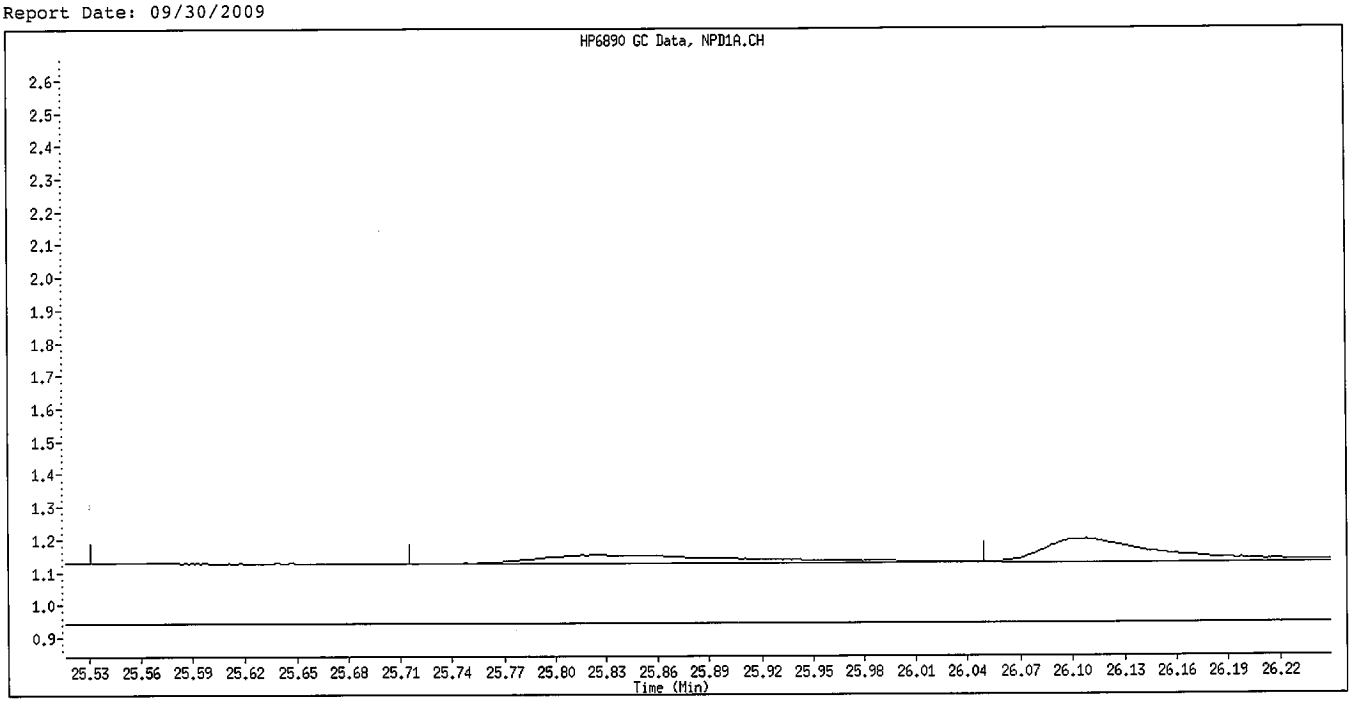


Manual Integration

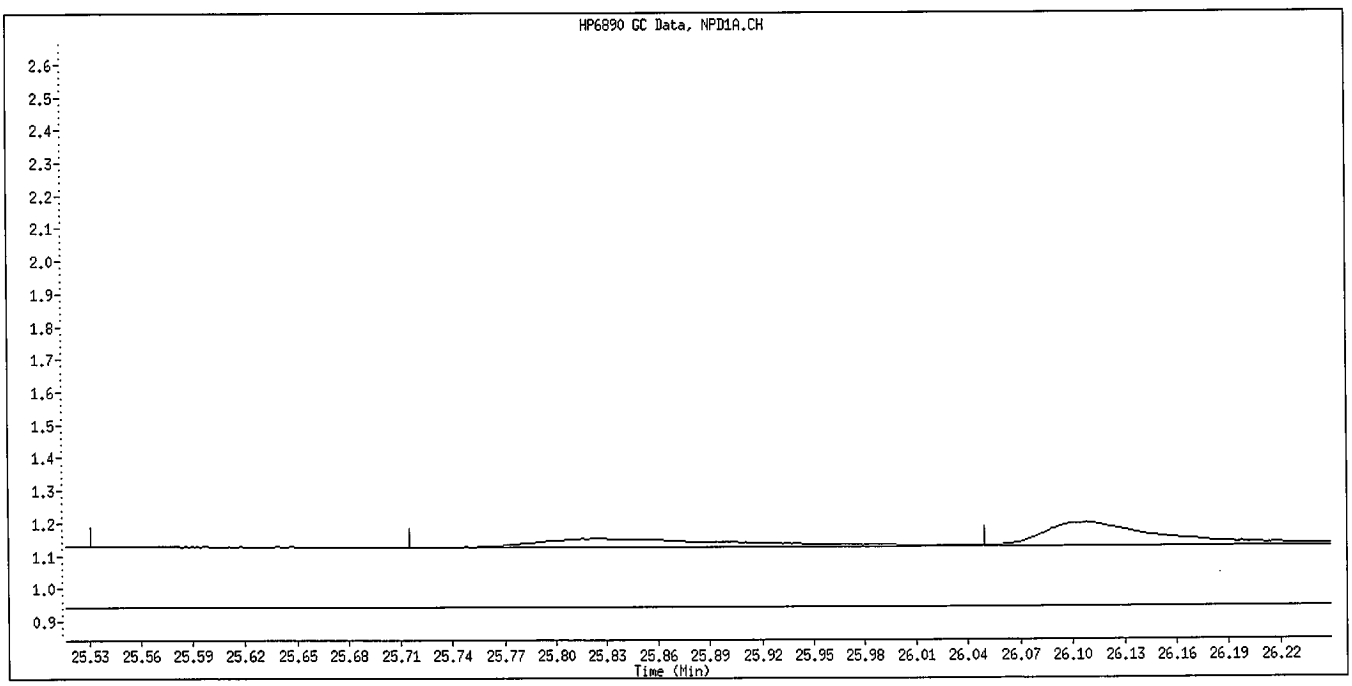
Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

YG 9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Phosmet
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Analyte Misidentified by the Data System

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\010F1001.D
Lab Smp Id: 8141 SS GSV1107 Client Smp ID: 8141 SS GSV1107
Inj Date : 29-SEP-2009 16:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 SS GSV1107
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Meth Date : 30-Sep-2009 08:47 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	4.263	4.260	(0.312)	662975	2.00000	2.028
	2 Dichlorvos	5.825	5.821	(0.427)	431366	2.00000	1.838
	3 Mevinphos	9.357	9.350	(0.685)	141564	2.00000	1.384
$	4 Chlormefos	9.465	9.466	(0.693)	586456	2.00000	1.930
	5 Thionazin	12.585	12.581	(0.922)	449061	2.00000	1.917
	6 Demeton-O	12.837	12.837	(0.940)	395623	0.65000	1.917
	7 Ethoprop	13.154	13.150	(0.964)	436594	2.00000	1.914
	8 Naled	13.435	13.431	(0.984)	143145	2.00000	1.874
*	9 Tributylphosphate	13.652	13.646	(1.000)	430831	2.00000	
	10 Sulfotepp	14.107	14.105	(1.033)	539115	2.00000	1.742
	11 Phorate	14.194	14.191	(1.040)	355210	2.00000	1.629
	12 Dimethoate	14.383	14.366	(1.054)	423508	2.00000	1.957
	13 Demeton-S	14.648	14.636	(1.073)	48550	1.36000	0.2011
	14 Simazine	14.764	14.756	(1.081)	143580	2.00000	1.940
	15 Atrazine	14.974	14.971	(1.097)	166856	2.00000	1.834
	16 propazine	15.154	15.152	(1.110)	171094	2.00000	1.817
	17 Disulfoton	15.838	15.835	(0.585)	333233	2.00000	1.903
	18 Diazinon	15.902	15.901	(0.588)	437524	2.00000	1.788
	19 Methyl Parathion	16.809	16.802	(0.621)	328271	2.00000	1.890
	20 Ronnel	17.427	17.422	(0.644)	354668	2.00000	1.910
	21 Malathion	18.097	18.094	(0.669)	239659	2.00000	1.758
	22 Fenthion	18.255	18.250	(0.675)	304926	2.00000	1.789
	23 Parathion	18.363	18.360	(0.679)	275293	2.00000	1.786
	24 Chlorpyrifos	18.417	18.416	(0.681)	487214	2.00000	1.876
	25 Trichloronate	18.923	18.921	(0.699)	376765	2.00000	1.702
	26 Anilazine	19.348	19.331	(0.715)	11249	2.00000	1.347(M)
	27 Merphos-A (Merphos)	19.769	19.763	(0.731)	24402	2.00000	1.051
	28 Tetrachlorvinphos (Stirophos)	20.492	20.483	(0.757)	213082	2.00000	1.708
	29 Tokuthion	21.242	21.237	(0.785)	364339	2.00000	1.859
	30 Merphos-B (Merphos Oxone)	21.491	21.486	(0.794)	328446	2.00000	2.168
	31 Carbophenothion-methyl	22.230	22.219	(0.822)	172645	2.00000	1.240
	32 Fensulfothion	22.419	22.401	(0.829)	269701	2.00000	1.734
	33 Bolstar / Famphur	23.585	23.575	(0.872)	644189	4.00000	3.966

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Carbophenothion	23.908	23.899	(0.884)	321039	2.00000	1.927
$	35 Triphenyl phosphate	25.230	25.226	(0.932)	277059	2.00000	2.050(A)
	36 Phosmet	25.759	25.748	(0.952)	261945	2.00000	2.060
	37 EPN	26.083	26.075	(0.964)	323485	2.00000	1.984
	38 Azinphos-methyl	26.581	26.574	(0.982)	231547	2.00000	1.769
*	39 TOCP	27.060	27.058	(1.000)	293002	2.00000	
	40 Azinphos-ethyl	27.166	27.159	(1.004)	280474	2.00000	1.876
	41 Coumaphos	27.693	27.686	(1.023)	241408	2.00000	1.852
M	42 Total Demeton				444173	2.00000	2.118
M	43 Merphos				352848	2.00000	1.816

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

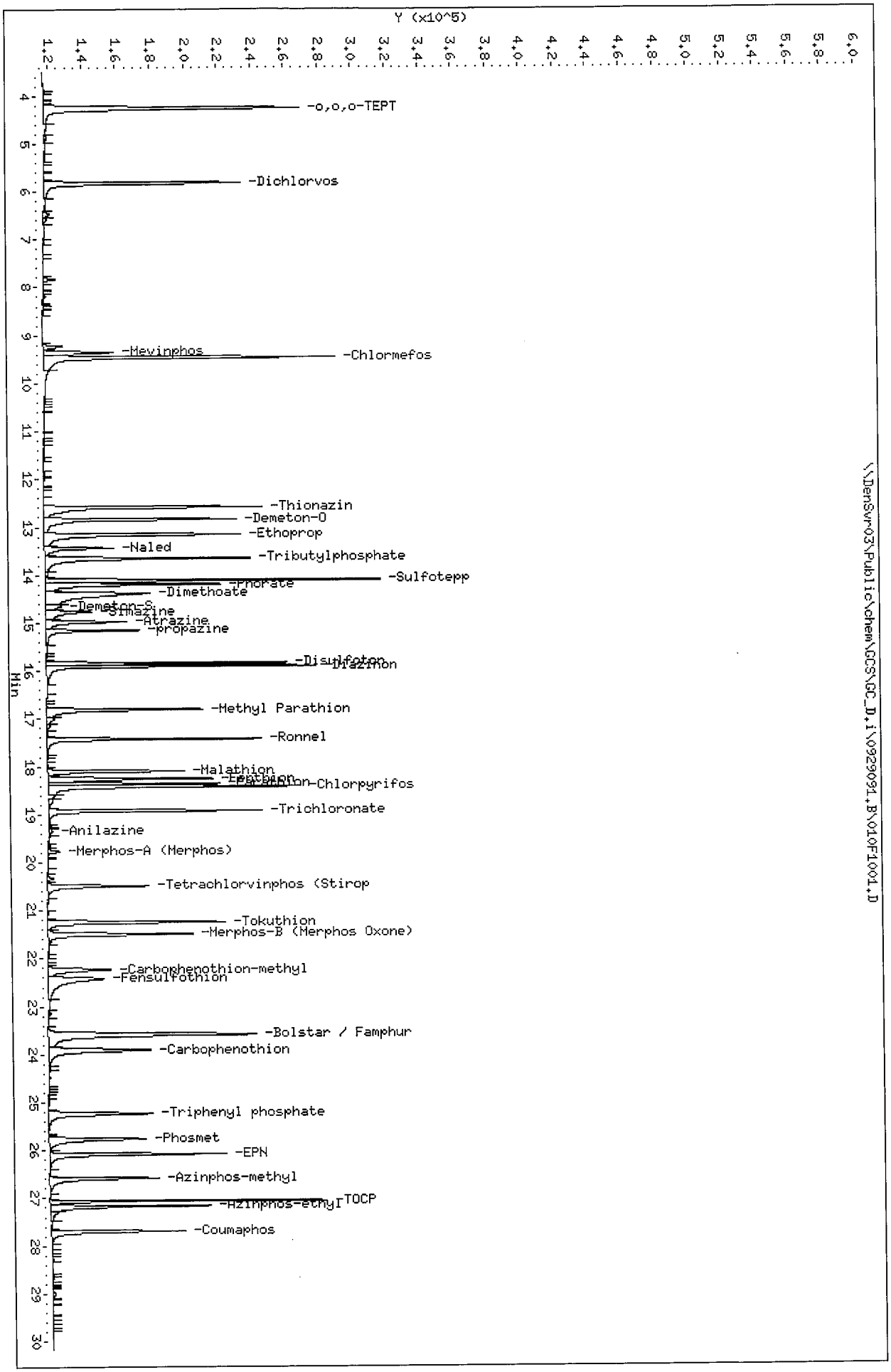
Instrument ID: GC_D.i
Lab File ID: 010F1001.D
Lab Smp Id: 8141 SS GSV1107
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929091.B\8141A-1.m
Misc Info: IS GSV1076-09

Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 SS GSV1107
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	744009	372005	1488018	430831	-42.09
39 TOCP	484260	242130	968520	293002	-39.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
9 Tributylphosphate	13.64	13.14	14.14	13.65	0.10
39 TOCP	27.06	26.56	27.56	27.06	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.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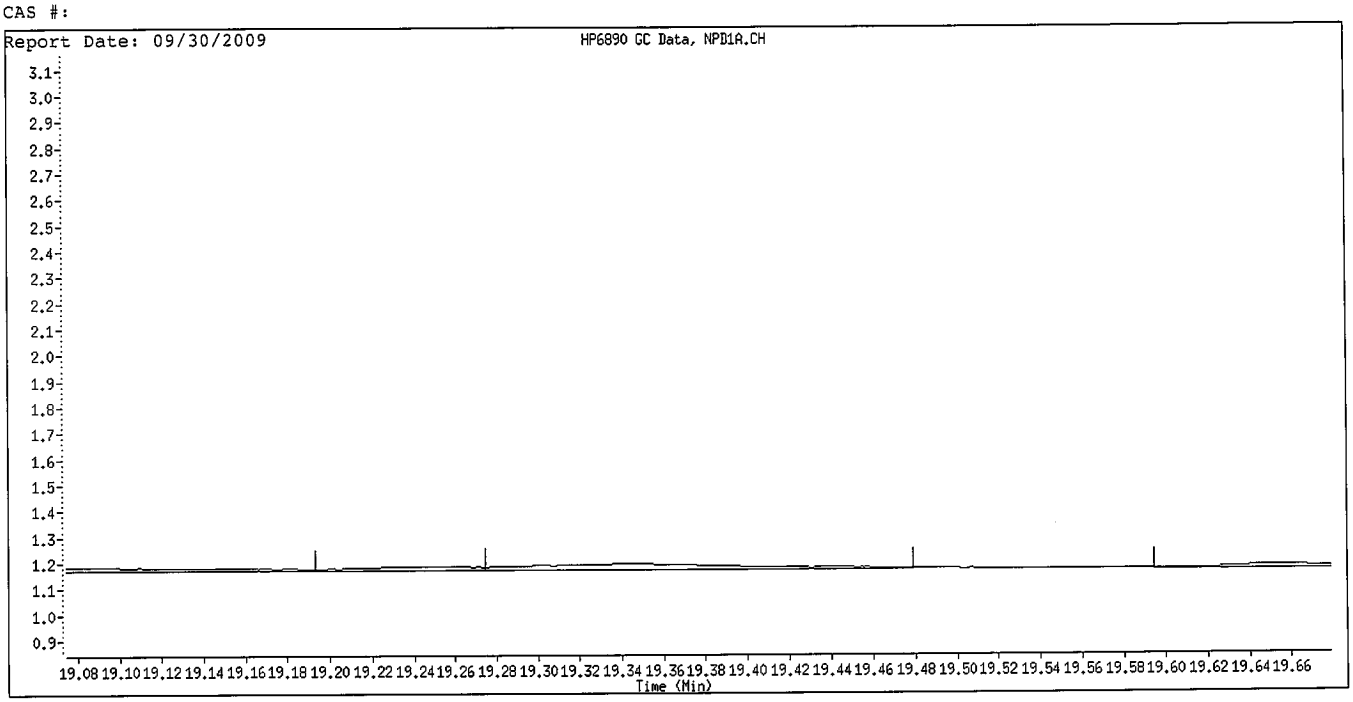
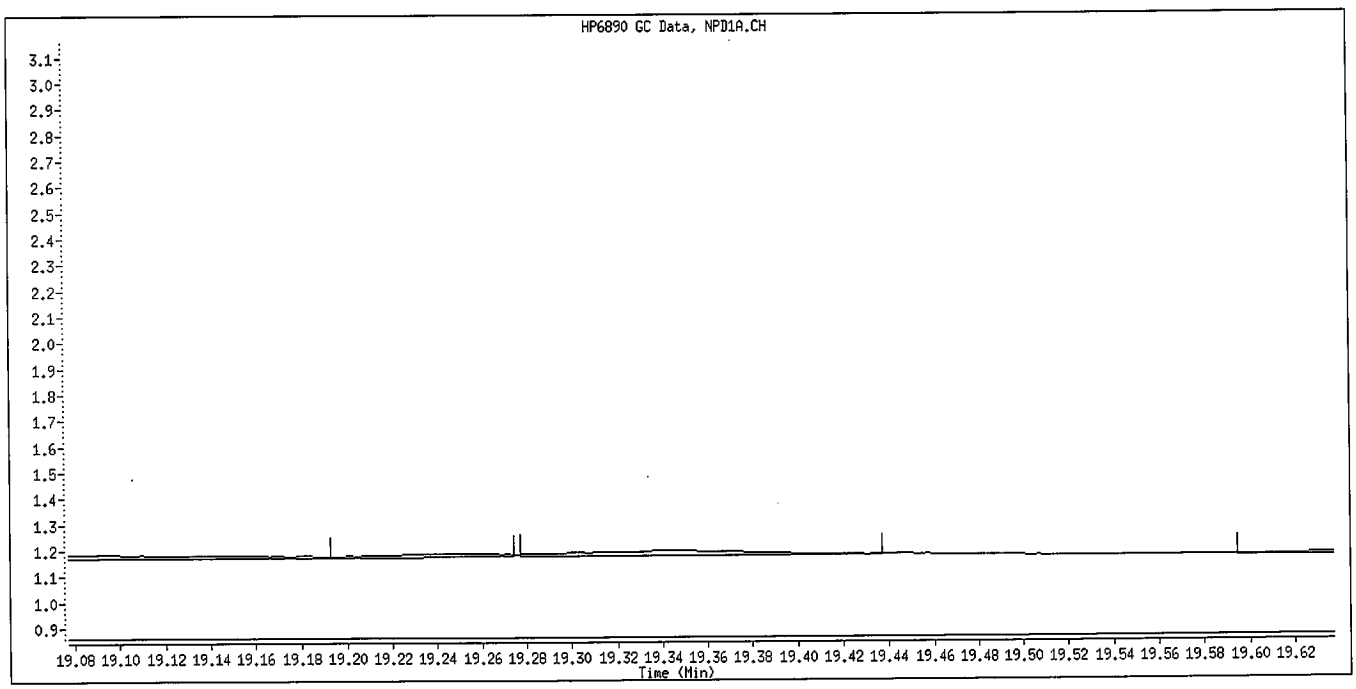
Date : 29-SEP-2009 16:49
Client ID: 8141 SS GSV1107
Sample Info: 8141 SS GSV1107
Column phase: RTx-1MS
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929091,B\010F1001,D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Thionazin
-Demeton-O
-Ethoprop
-Naled
-Tributylphosphate
-Sulfotepp
-Phorate
-Dimethoate
-Demeton-S
-Simazine
-Atrazine
-propazine
-Disulfoton
-Diazinon
-Methyl Parathion
-Ronnel
-Malathion
-Fenthion
-Parathion
-Chlorpyrifos
-Trichloronate
-Anilazine
-Merphos-A (Merphos)
-Tetrachlorvinphos (Stirop
-Tokuthion
-Merphos-B (Merphos Oxone)
-Carbophenothion-methyl
-Fensulfothion
-Bolstar / Famphur
-Carbophenothion
-Triphenyl phosphate
-Phosmet
-EPN
-Azinphos-methyl
-Azinphos-ethyl
TOCP
-Coumaphos

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Anilazine
CAS #:



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\003F0301.D
Lab Smp Id: 8141 L7 GSV1077 Client Smp ID: 8141 L7 GSV1077
Inj Date : 29-SEP-2009 12:33
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L7 GSV1077
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 Cal File: 009F0901.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.726	6.726	(0.417)	772865	5.00000	4.207
	2 Dichlorvos	8.901	8.903	(0.551)	609684	5.00000	4.660
$	3 Chlormefos	12.835	12.838	(0.795)	552249	5.00000	4.414
	4 Mevinphos	12.949	12.953	(0.802)	370427	5.00000	4.714
	5 Demeton-O	15.897	15.901	(0.985)	119414	1.62500	1.535
	6 Thionazin	16.023	16.027	(0.993)	518273	5.00000	4.580
*	7 Tributylphosphate	16.141	16.146	(1.000)	219381	2.00000	
	8 Ethoprop	16.286	16.290	(1.009)	585549	5.00000	4.599
	9 Naled	16.871	16.873	(1.045)	201383	5.00000	4.844
	10 Sulfotepp	17.187	17.189	(1.065)	695274	5.00000	4.740
	11 Phorate	17.223	17.225	(1.067)	457389	5.00000	4.552
	12 Demeton-S	17.908	17.914	(1.109)	292846	3.40000	3.250
	13 Simazine	18.321	18.324	(1.135)	107753	5.00000	4.955
	14 Atrazine / Propazine	18.387	18.391	(1.139)	421388	10.0000	10.02(A)
	15 Dimethoate	18.513	18.518	(1.147)	547217	5.00000	4.609
	16 Diazinon	18.915	18.919	(1.172)	476423	5.00000	4.385
	17 Disulfoton	19.177	19.182	(1.188)	484109	5.00000	4.393
	18 Methyl Parathion	21.077	21.081	(0.735)	409367	5.00000	4.938(A)
	19 Ronnel	21.166	21.170	(0.738)	498225	5.00000	5.024(A)
	20 Malathion	22.426	22.430	(0.782)	350626	5.00000	4.833
	21 Chlorpyrifos	22.581	22.586	(0.787)	473711	5.00000	5.058(A)
	22 Trichloronate	22.754	22.757	(0.793)	516721	5.00000	5.150(A)
	23 Parathion	22.803	22.810	(0.795)	432482	5.00000	4.741
	24 Fenthion	22.876	22.881	(0.798)	523921	5.00000	4.685
	25 Merphos-A (Merphos)	23.411	23.412	(0.816)	228536	5.00000	5.183(A)
	26 Anilazine	24.391	24.396	(0.850)	35306	5.00000	4.907
	27 Tetrachlorvinphos (stirophos)	25.825	25.828	(0.900)	330886	5.00000	4.981
	28 Tokuthion	26.007	26.009	(0.907)	494804	5.00000	5.179(A)
	29 Merphos-B (Merphos oxone)	26.139	26.142	(0.911)	303395	5.00000	3.617
	30 Carbophenothion methyl	26.975	26.976	(0.940)	352947	5.00000	4.892
	31 Fensulfothion	27.211	27.214	(0.949)	294034	5.00000	4.628
	32 Bolstar	27.324	27.326	(0.953)	377622	5.00000	4.498
	33 Carbophenothion	27.438	27.440	(0.957)	347667	5.00000	4.716

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.622	27.624	(0.963)	345194	5.00000	4.674
$	35 Triphenyl phosphate	27.913	27.914	(0.973)	289283	5.00000	4.632
	36 EPN	28.221	28.223	(0.984)	351202	5.00000	4.559
	37 Phosmet	28.346	28.348	(0.988)	305705	5.00000	4.606
*	38 TOCP	28.682	28.684	(1.000)	158977	2.00000	
	39 Azinphos-methyl	28.793	28.796	(1.004)	301398	5.00000	4.928
	40 Azinphos-ethyl	29.103	29.106	(1.015)	301170	5.00000	4.785
	41 Coumaphos	29.430	29.433	(1.026)	284996	5.00000	4.760
M	42 Total Demeton				412260	5.00000	4.786
M	43 Merphos				531931	5.00000	4.883(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

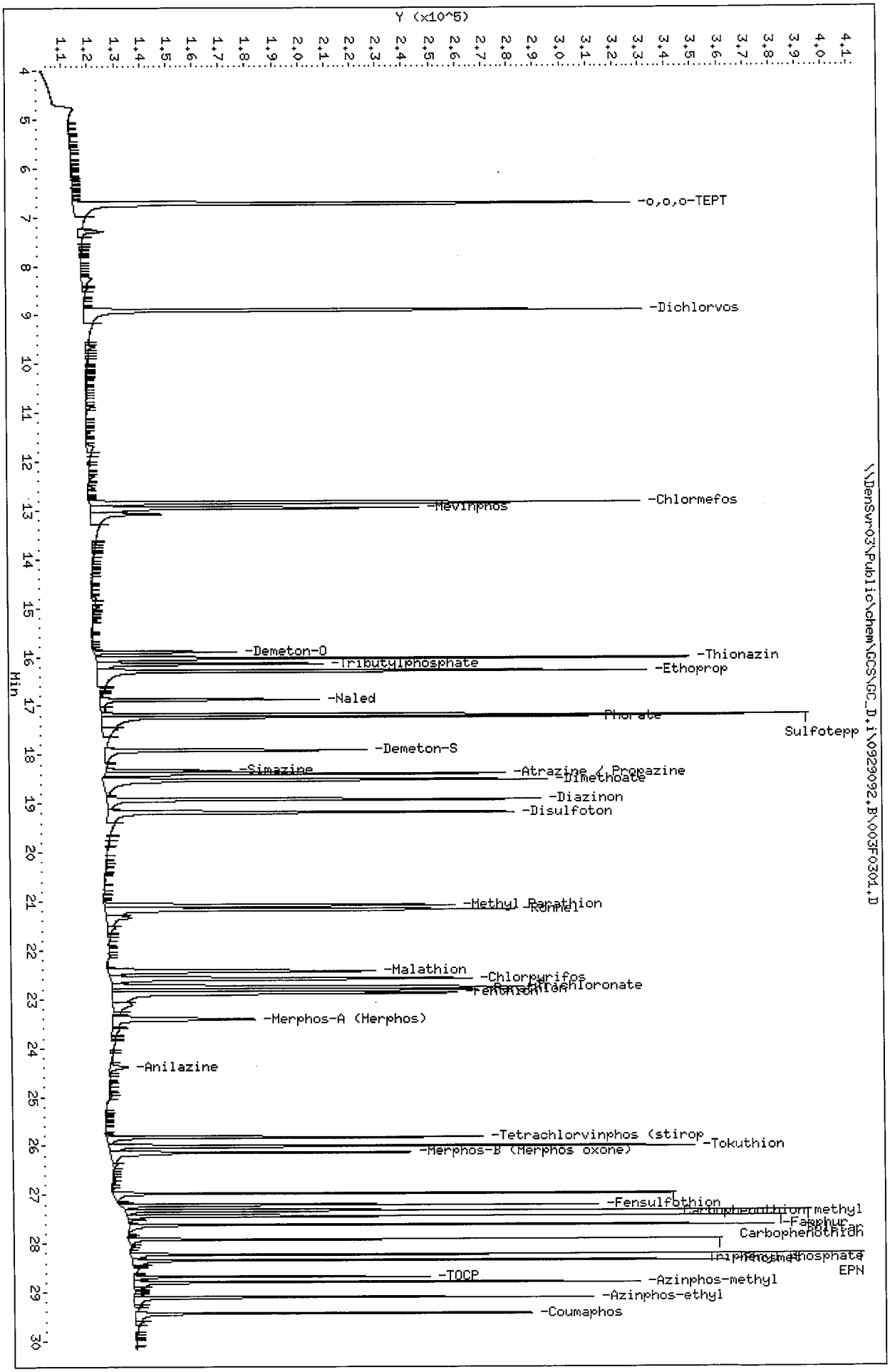
Instrument ID: GC_D.i
Lab File ID: 003F0301.D
Lab Smp Id: 8141 L7 GSV1077
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L7 GSV1077
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	219381	29.99
38 TOCP	129625	64813	259250	158977	22.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.14	-0.04
38 TOCP	28.68	28.18	29.18	28.68	-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\0929092,B\003F0301.D
Date : 29-SEP-2009 12:33
Client ID: 8141 L7 GSW1077
Sample Info: 8141 L7 GSW1077
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\003F0301.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Tributylphosphate
-Thionazin
-Ethoprop
-Naled
-Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Fensulfothion
-TOCP
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos
EPN

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D
Lab Smp Id: 8141 L6 GSV1078 Client Smp ID: 8141 L6 GSV1078
Inj Date : 29-SEP-2009 13:09
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L6 GSV1078
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 12:33 Cal File: 003F0301.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.726	6.726	(0.417)	619522	4.00000	3.787
	2 Dichlorvos	8.902	8.903	(0.551)	450663	4.00000	3.869
$	3 Chlormefos	12.836	12.838	(0.795)	420046	4.00000	3.771
	4 Mevinphos	12.950	12.953	(0.802)	281626	4.00000	4.025
	5 Demeton-O	15.898	15.901	(0.985)	90724	1.30000	1.310
	6 Thionazin	16.025	16.027	(0.993)	400261	4.00000	3.972
*	7 Tributylphosphate	16.142	16.146	(1.000)	195315	2.00000	
	8 Ethoprop	16.287	16.290	(1.009)	456780	4.00000	3.996
	9 Naled	16.873	16.873	(1.045)	153119	4.00000	4.153
	10 Sulfotepp	17.187	17.189	(1.065)	536170	4.00000	4.076
	11 Phorate	17.224	17.225	(1.067)	366311	4.00000	4.078
	12 Demeton-S	17.911	17.914	(1.110)	218626	2.72000	2.730
	13 Simazine	18.322	18.324	(1.135)	77526	4.00000	4.068
	14 Atrazine / Propazine	18.387	18.391	(1.139)	307271	8.00000	8.217(A)
	15 Dimethoate	18.514	18.518	(1.147)	414494	4.00000	3.939
	16 Diazinon	18.916	18.919	(1.172)	369629	4.00000	3.822
	17 Disulfoton	19.178	19.182	(1.188)	381324	4.00000	3.887
	18 Methyl Parathion	21.078	21.081	(0.735)	308584	4.00000	4.024(A)
	19 Ronnel	21.166	21.170	(0.738)	372879	4.00000	4.046
	20 Malathion	22.426	22.430	(0.782)	267260	4.00000	3.970
	21 Chlorpyrifos	22.582	22.586	(0.787)	349915	4.00000	4.030
	22 Trichloronate	22.755	22.757	(0.793)	378490	4.00000	4.072
	23 Parathion	22.806	22.810	(0.795)	341103	4.00000	4.032
	24 Fenthion	22.877	22.881	(0.798)	396533	4.00000	3.816
	25 Merphos-A (Merphos)	23.410	23.412	(0.816)	162051	4.00000	4.133
	26 Anilazine	24.392	24.396	(0.850)	26232	4.00000	3.954
	27 Tetrachlorvinphos (stirophos)	25.826	25.828	(0.900)	242093	4.00000	4.021
	28 Tokuthion	26.007	26.009	(0.907)	369539	4.00000	4.162
	29 Merphos-B (Merphos oxone)	26.142	26.142	(0.911)	239054	4.00000	3.067
	30 Carbophenothion methyl	26.975	26.976	(0.940)	269754	4.00000	4.030
	31 Fensulfothion	27.212	27.214	(0.949)	232294	4.00000	3.942
	32 Bolstar	27.325	27.326	(0.953)	304199	4.00000	3.899
	33 Carbophenothion	27.439	27.440	(0.957)	270609	4.00000	3.956

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.623	27.624	(0.963)	273389	4.00000	3.992
$	35 Triphenyl phosphate	27.913	27.914	(0.973)	230548	4.00000	3.973
	36 EPN	28.221	28.223	(0.984)	277935	4.00000	3.883
	37 Phosmet	28.346	28.348	(0.988)	262610	4.00000	4.258
*	38 TOCP	28.682	28.684	(1.000)	147725	2.00000	
	39 Azinphos-methyl	28.794	28.796	(1.004)	229899	4.00000	4.025
	40 Azinphos-ethyl	29.104	29.106	(1.015)	238500	4.00000	4.046
	41 Coumaphos	29.429	29.433	(1.026)	222813	4.00000	3.979
M	42 Total Demeton				309350	4.00000	4.040
M	43 Merphos				401105	4.00000	3.966(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

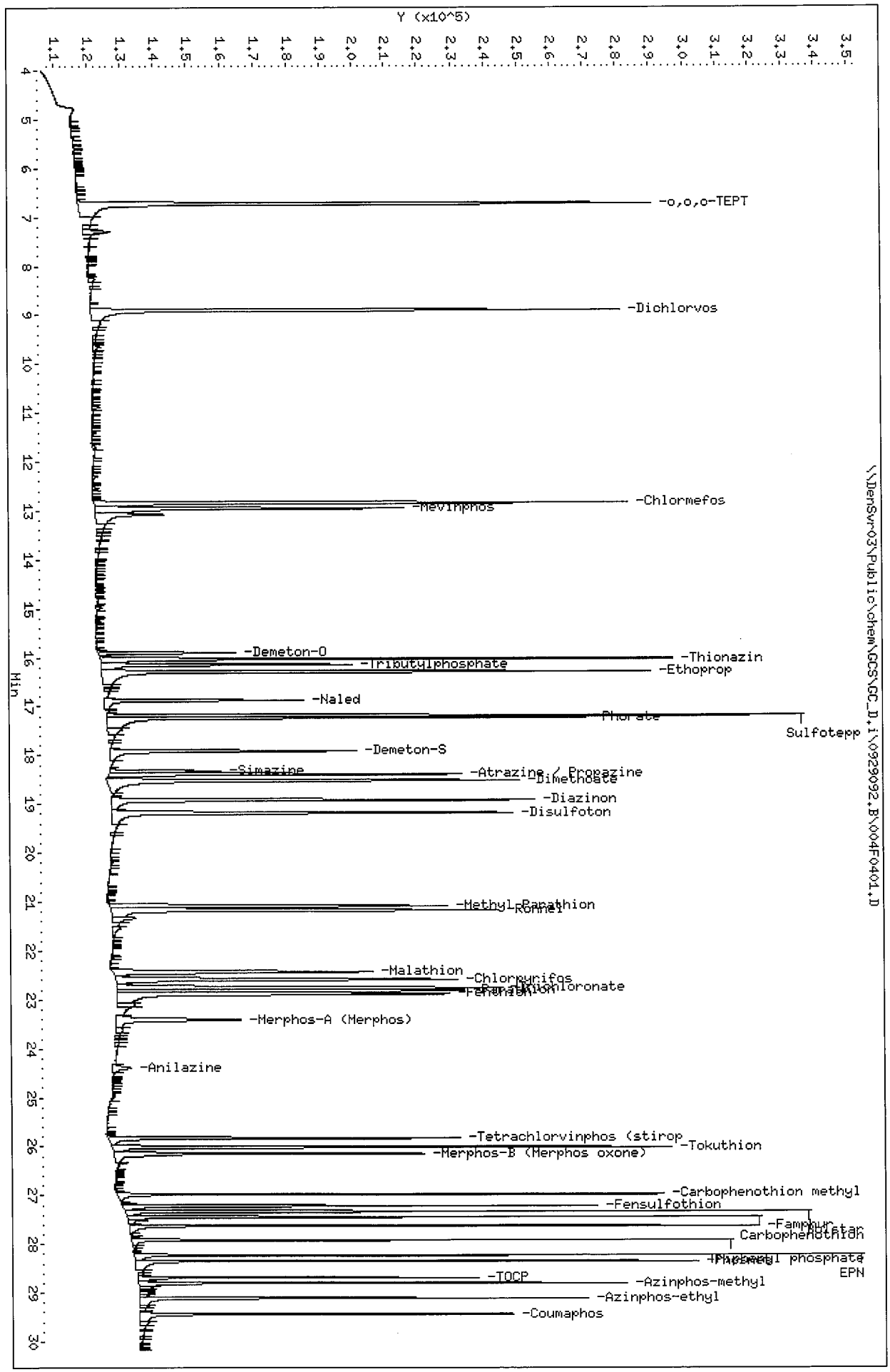
Instrument ID: GC_D.i
Lab File ID: 004F0401.D
Lab Smp Id: 8141 L6 GSV1078
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L6 GSV1078
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	195315	15.73
38 TOCP	129625	64813	259250	147725	13.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.14	-0.04
38 TOCP	28.68	28.18	29.18	28.68	-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 : 29-SEP-2009 13:09
Client ID: 8141 L6 GSV1078
Sample Info: 8141 L6 GSV1078
Column phase: RTx-OPPest

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\004F0401.D

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\005F0501.D
Lab Smp Id: 8141 L5 GSV1079 Client Smp ID: 8141 L5 GSV1079
Inj Date : 29-SEP-2009 13:46
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L5 GSV1079
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:09 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.725	6.726	(0.417)	440556	3.00000	2.924
	2 Dichlorvos	8.903	8.903	(0.551)	312239	3.00000	2.910
$	3 Chlormefos	12.838	12.838	(0.795)	298226	3.00000	2.906
	4 Mevinphos	12.953	12.953	(0.802)	200396	3.00000	3.109
	5 Demeton-O	15.900	15.901	(0.985)	63841	0.97500	1.001
	6 Thionazin	16.027	16.027	(0.993)	286900	3.00000	3.091
*	7 Tributylphosphate	16.145	16.146	(1.000)	179919	2.00000	
	8 Ethoprop	16.289	16.290	(1.009)	339190	3.00000	3.168
	9 Naled	16.873	16.873	(1.045)	104633	3.00000	3.108
	10 Sulfotepp	17.188	17.189	(1.065)	391784	3.00000	3.187
	11 Phorate	17.224	17.225	(1.067)	267547	3.00000	3.199
	12 Demeton-S	17.913	17.914	(1.110)	148807	2.04000	2.024
	13 Simazine	18.323	18.324	(1.135)	50934	3.00000	2.997
	14 Atrazine / Propazine	18.390	18.391	(1.139)	207143	6.00000	6.026(A)
	15 Dimethoate	18.518	18.518	(1.147)	296888	3.00000	3.088
	16 Diazinon	18.918	18.919	(1.172)	266007	3.00000	2.986
	17 Disulfoton	19.182	19.182	(1.188)	266889	3.00000	2.953
	18 Methyl Parathion	21.080	21.081	(0.735)	218781	3.00000	3.110(A)
	19 Ronnel	21.169	21.170	(0.738)	263521	3.00000	3.094
	20 Malathion	22.429	22.430	(0.782)	191342	3.00000	3.083
	21 Chlorpyrifos	22.585	22.586	(0.787)	244884	3.00000	3.063
	22 Trichloronate	22.757	22.757	(0.793)	261483	3.00000	3.058
	23 Parathion	22.809	22.810	(0.795)	239376	3.00000	3.075
	24 Fenthion	22.880	22.881	(0.798)	294303	3.00000	3.064
	25 Merphos-A (Merphos)	23.412	23.412	(0.816)	73838	3.00000	2.419
	26 Anilazine	24.395	24.396	(0.850)	19918	3.00000	3.275
	27 Tetrachlorvinphos (stirophos)	25.828	25.828	(0.900)	164289	3.00000	3.035
	28 Tokuthion	26.008	26.009	(0.907)	260483	3.00000	3.174
	29 Merphos-B (Merphos oxone)	26.142	26.142	(0.911)	209630	3.00000	2.910
	30 Carbophenothion methyl	26.975	26.976	(0.940)	192332	3.00000	3.118
	31 Fensulfothion	27.213	27.214	(0.949)	171184	3.00000	3.153
	32 Bolstar	27.325	27.326	(0.953)	225411	3.00000	3.126
	33 Carbophenothion	27.439	27.440	(0.957)	194237	3.00000	3.078

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.623	27.624	(0.963)	195770	3.00000	3.106
$	35 Triphenyl phosphate	27.913	27.914	(0.973)	167583	3.00000	3.124
	36 EPN	28.223	28.223	(0.984)	204647	3.00000	3.093
	37 Phosmet	28.348	28.348	(0.988)	182870	3.00000	3.208
*	38 TOCP	28.683	28.684	(1.000)	136544	2.00000	
	39 Azinphos-methyl	28.795	28.796	(1.004)	166083	3.00000	3.121
	40 Azinphos-ethyl	29.106	29.106	(1.015)	171561	3.00000	3.100
	41 Coumaphos	29.433	29.433	(1.026)	160902	3.00000	3.073
M	42 Total Demeton				212648	3.00000	3.025
M	43 Merphos				283468	3.00000	3.037(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

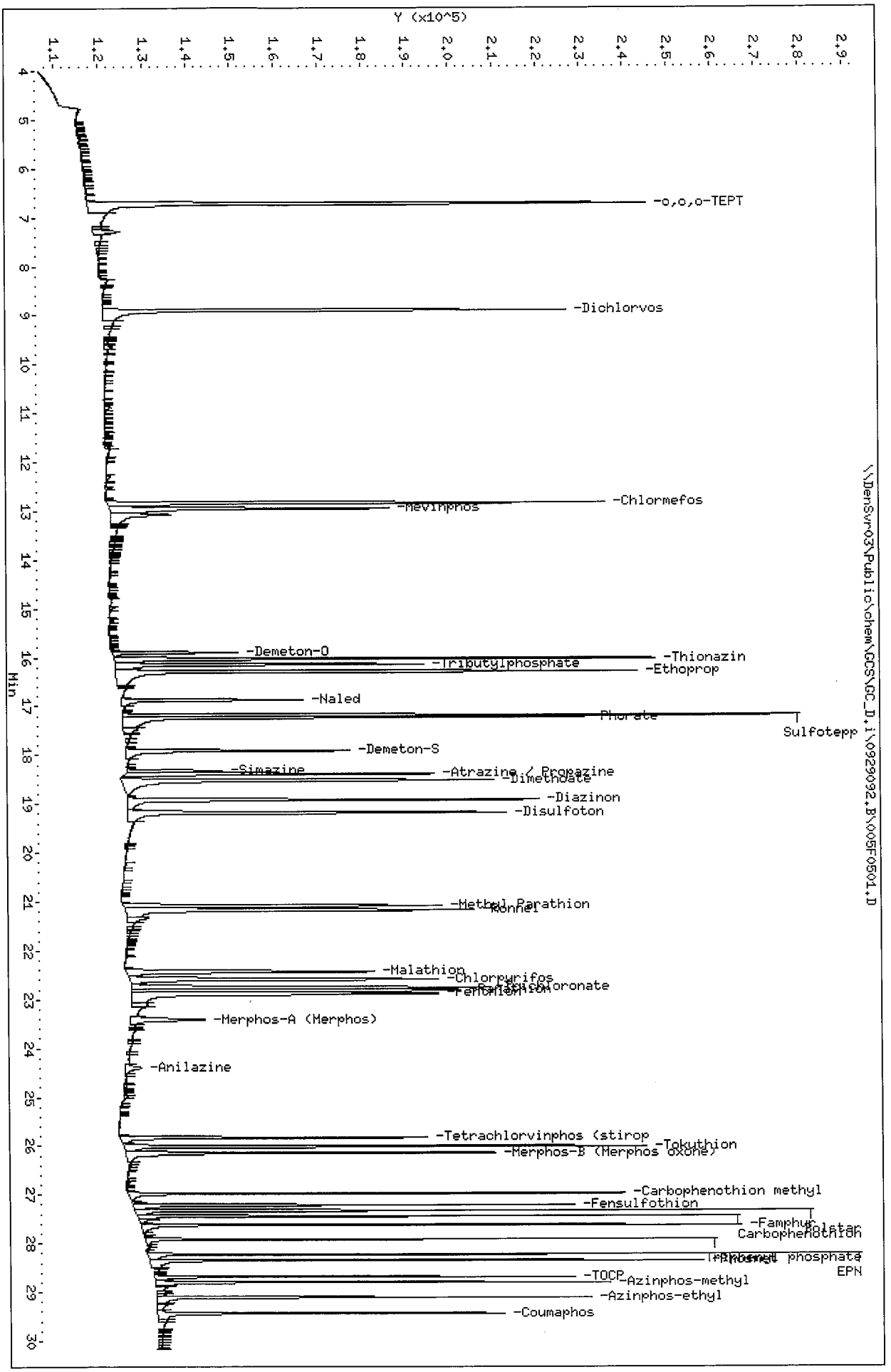
Instrument ID: GC_D.i
Lab File ID: 005F0501.D
Lab Smp Id: 8141 L5 GSV1079
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L5 GSV1079
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	179919	6.61
38 TOCP	129625	64813	259250	136544	5.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	-0.02
38 TOCP	28.68	28.18	29.18	28.68	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\0929092.B\005F0501.D
Date : 29-SEP-2009 13:46
Client ID: 8141 L5 GSV1079
Sample Info: 8141 L5 GSV1079
Column phase: RTx-OPPest

Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\006F0601.D
Lab Smp Id: 8141 L4 GSV1080 Client Smp ID: 8141 L4 GSV1080
Inj Date : 29-SEP-2009 14:22
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L4 GSV1080
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 13:46 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.725	6.726	(0.417)	310103	2.00000	1.964
	2 Dichlorvos	8.902	8.903	(0.551)	206350	2.00000	1.836
$	3 Chlormefos	12.835	12.838	(0.795)	206244	2.00000	1.918
	4 Mevinphos	12.952	12.953	(0.802)	136078	2.00000	2.015
	5 Demeton-O	15.899	15.901	(0.985)	42675	0.65000	0.6386
	6 Thionazin	16.025	16.027	(0.993)	196127	2.00000	2.017
*	7 Tributylphosphate	16.144	16.146	(1.000)	188507	2.00000	
	8 Ethoprop	16.289	16.290	(1.009)	231940	2.00000	1.972
	9 Naled	16.872	16.873	(1.045)	66048	2.00000	1.914
	10 Sulfotepp	17.187	17.189	(1.065)	278947	2.00000	2.095
	11 Phorate	17.225	17.225	(1.067)	186434	2.00000	2.071
	12 Demeton-S	17.914	17.914	(1.110)	105446	1.36000	1.377
	13 Simazine	18.323	18.324	(1.135)	32796	2.00000	1.970
	14 Atrazine / Propazine	18.387	18.391	(1.139)	137441	4.00000	3.833
	15 Dimethoate	18.519	18.518	(1.147)	200683	2.00000	2.033
	16 Diazinon	18.917	18.919	(1.172)	188199	2.00000	2.016
	17 Disulfoton	19.180	19.182	(1.188)	193559	2.00000	2.044
	18 Methyl Parathion	21.080	21.081	(0.735)	145647	2.00000	1.950
	19 Ronnel	21.166	21.170	(0.738)	177999	2.00000	1.929
	20 Malathion	22.430	22.430	(0.782)	132229	2.00000	1.979
	21 Chlorpyrifos	22.584	22.586	(0.787)	166943	2.00000	1.945
	22 Trichloronate	22.759	22.757	(0.793)	175644	2.00000	1.919
	23 Parathion	22.808	22.810	(0.795)	163192	2.00000	1.957
	24 Fenthion	22.879	22.881	(0.798)	204919	2.00000	1.970
	25 Merphos-A (Merphos)	23.409	23.412	(0.816)	43136	2.00000	1.651
	26 Anilazine	24.402	24.396	(0.851)	11478	2.00000	1.813
	27 Tetrachlorvinphos (stirophos)	25.828	25.828	(0.900)	110089	2.00000	1.953
	28 Tokuthion	26.010	26.009	(0.907)	179763	2.00000	2.023
	29 Merphos-B (Merphos oxone)	26.140	26.142	(0.911)	159237	2.00000	2.041
	30 Carbophenothion methyl	26.975	26.976	(0.940)	127195	2.00000	1.919
	31 Fensulfothion	27.214	27.214	(0.949)	117044	2.00000	2.009
	32 Bolstar	27.325	27.326	(0.953)	159586	2.00000	2.043
	33 Carbophenothion	27.439	27.440	(0.957)	133833	2.00000	1.970

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.623	27.624	(0.963)	137487	2.00000	2.035
$	35 Triphenyl phosphate	27.914	27.914	(0.973)	117620	2.00000	2.025
	36 EPN	28.221	28.223	(0.984)	143938	2.00000	2.009
	37 Phosmet	28.348	28.348	(0.988)	120409	2.00000	1.950
*	38 TOCP	28.683	28.684	(1.000)	147884	2.00000	
	39 Azinphos-methyl	28.796	28.796	(1.004)	115656	2.00000	1.967
	40 Azinphos-ethyl	29.106	29.106	(1.015)	126800	2.00000	2.047
	41 Coumaphos	29.432	29.433	(1.026)	114650	2.00000	1.965
M	42 Total Demeton				148121	2.00000	2.016
M	43 Merphos				202373	2.00000	2.008(A)

QC Flag Legend

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

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

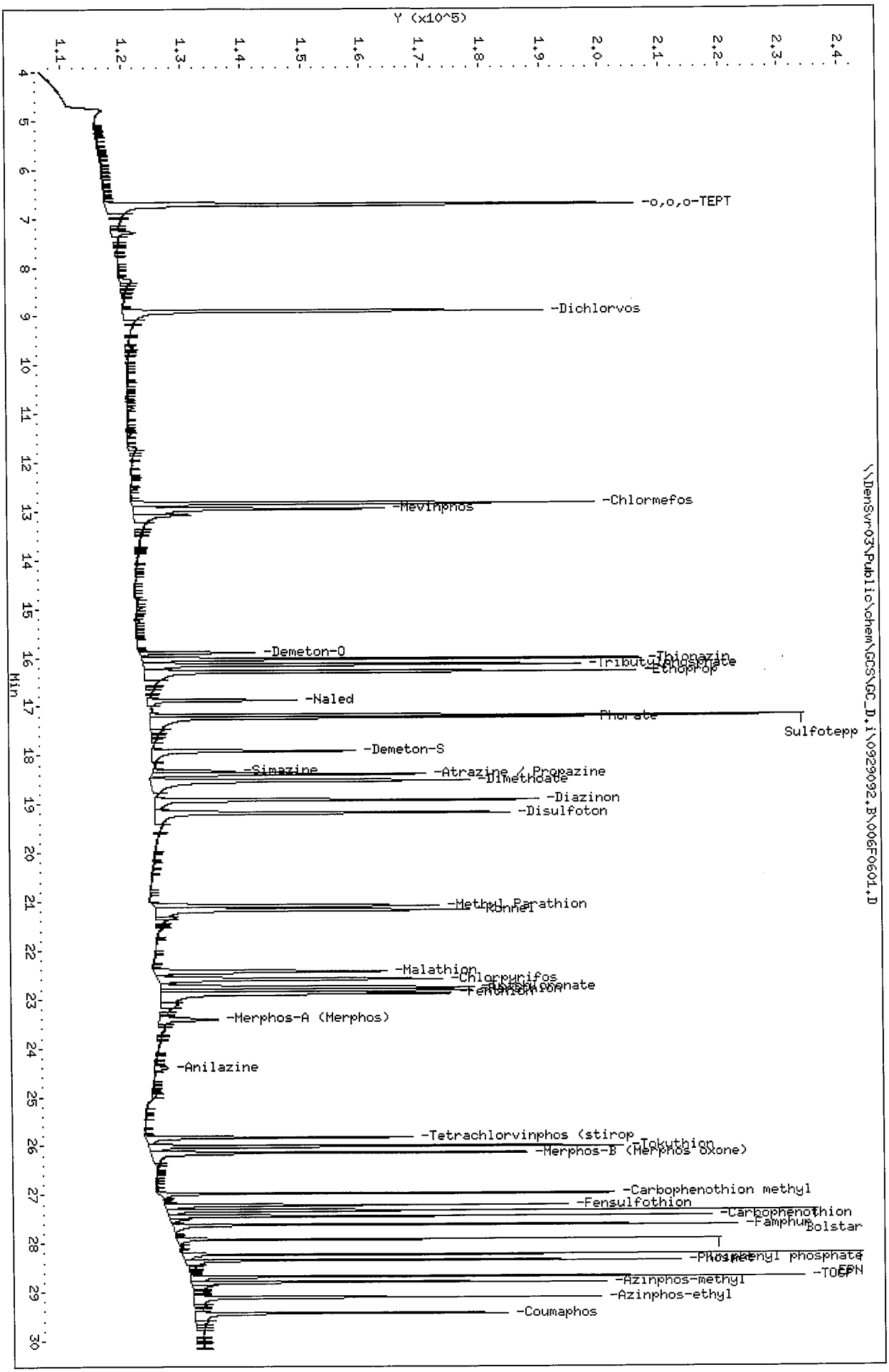
Instrument ID: GC_D.i
Lab File ID: 006F0601.D
Lab Smp Id: 8141 L4 GSV1080
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L4 GSV1080
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	188507	11.69
38 TOCP	129625	64813	259250	147884	14.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.14	-0.03
38 TOCP	28.68	28.18	29.18	28.68	-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\0929092,B\006F0601.D
Date : 29-SEP-2009 14:22
Client ID: 8141 L4 GSV1080
Sample Info: 8141 L4 GSV1080
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\006F0601.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Thionazin
-Tributyl phosphate
-Ethoprop
-Naled
-Phorate
Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Fenthion
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Merphos-B (Merphos Oxone)
-Carbophenothion methyl
-Fensulfothion
-Carbophenothion
-Famphur
Bolstar
-TOCP
EPN
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\007F0701.D
Lab Smp Id: 8141 L3 GSV1081 Client Smp ID: 8141 L3 GSV1081
Inj Date : 29-SEP-2009 14:59
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L3 GSV1081
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:22 Cal File: 006F0601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.726	6.726	(0.417)	161855	1.00000	1.146
	2 Dichlorvos	8.905	8.903	(0.551)	106503	1.00000	1.059
$	3 Chlormefos	12.838	12.838	(0.795)	108558	1.00000	1.129
	4 Mevinphos	12.955	12.953	(0.802)	69109	1.00000	1.144
	5 Demeton-O	15.903	15.901	(0.985)	21599	0.32500	0.3614
	6 Thionazin	16.029	16.027	(0.993)	99590	1.00000	1.145
*	7 Tributylphosphate	16.149	16.146	(1.000)	168604	2.00000	
	8 Ethoprop	16.292	16.290	(1.009)	117585	1.00000	0.9984
	9 Naled	16.877	16.873	(1.045)	27100	1.00000	0.9345
	10 Sulfotepp	17.191	17.189	(1.065)	147729	1.00000	1.150(M)
	11 Phorate	17.227	17.225	(1.067)	94044	1.00000	1.095(M)
	12 Demeton-S	17.920	17.914	(1.110)	48449	0.68000	0.7199
	13 Simazine	18.331	18.324	(1.135)	12318	1.00000	1.021
	14 Atrazine / Propazine	18.395	18.391	(1.139)	66367	2.00000	2.091
	15 Dimethoate	18.530	18.518	(1.147)	90330	1.00000	1.080
	16 Diazinon	18.922	18.919	(1.172)	94294	1.00000	1.129
	17 Disulfoton	19.185	19.182	(1.188)	94535	1.00000	1.116
	18 Methyl Parathion	21.086	21.081	(0.735)	72062	1.00000	1.039
	19 Ronnel	21.171	21.170	(0.738)	95255	1.00000	1.058
	20 Malathion	22.434	22.430	(0.782)	67405	1.00000	1.051
	21 Chlorpyrifos	22.590	22.586	(0.788)	83511	1.00000	1.020
	22 Trichloronate	22.761	22.757	(0.793)	87602	1.00000	1.010
	23 Parathion	22.814	22.810	(0.795)	83031	1.00000	1.048
	24 Fenthion	22.884	22.881	(0.798)	111052	1.00000	1.094
	25 Merphos-A (Merphos)	23.411	23.412	(0.816)	14025	1.00000	1.052
	26 Anilazine	24.407	24.396	(0.851)	5957	1.00000	1.035(M)
	27 Tetrachlorvinphos (stirophos)	25.832	25.828	(0.901)	50985	1.00000	0.9952
	28 Tokuthion	26.012	26.009	(0.907)	89595	1.00000	1.033
	29 Merphos-B (Merphos oxone)	26.145	26.142	(0.911)	87486	1.00000	1.150
	30 Carbophenothion methyl	26.979	26.976	(0.941)	66286	1.00000	1.043
	31 Fensulfothion	27.217	27.214	(0.949)	59611	1.00000	1.072
	32 Bolstar	27.328	27.326	(0.953)	84184	1.00000	1.105
	33 Carbophenothion	27.442	27.440	(0.957)	70538	1.00000	1.078

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.626	27.624	(0.963)	67281	1.00000	1.050
$	35 Triphenyl phosphate	27.916	27.914	(0.973)	62457	1.00000	1.102
	36 EPN	28.224	28.223	(0.984)	78570	1.00000	1.124
	37 Phosmet	28.351	28.348	(0.988)	65056	1.00000	1.080
*	38 TOCP	28.685	28.684	(1.000)	144252	2.00000	
	39 Azinphos-methyl	28.799	28.796	(1.004)	63061	1.00000	1.050
	40 Azinphos-ethyl	29.109	29.106	(1.015)	67533	1.00000	1.019
	41 Coumaphos	29.436	29.433	(1.026)	63215	1.00000	1.039
M	42 Total Demeton				70048	1.00000	1.081
M	43 Merphos				101511	1.00000	1.042

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

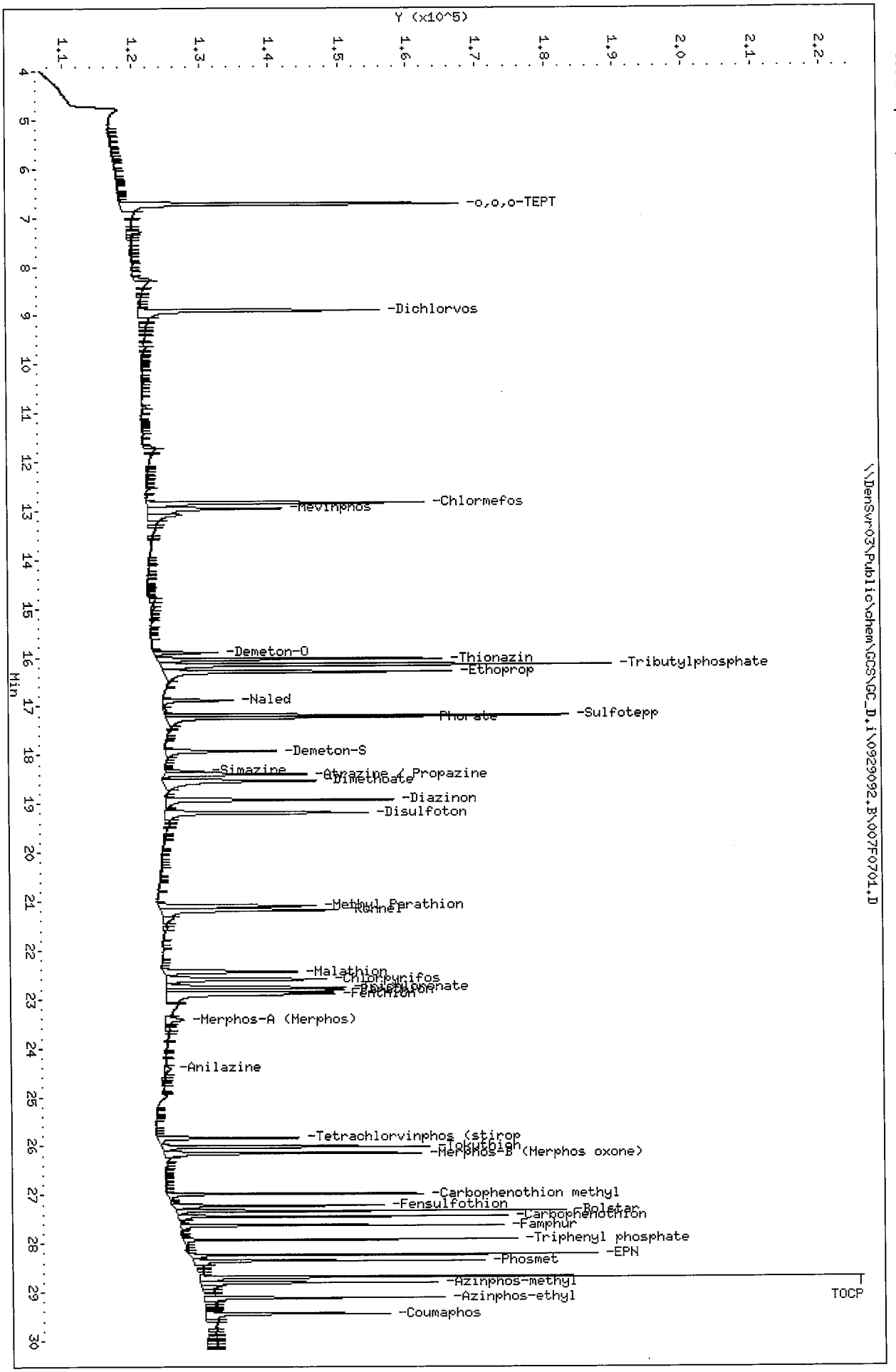
Instrument ID: GC_D.i
Lab File ID: 007F0701.D
Lab Smp Id: 8141 L3 GSV1081
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L3 GSV1081
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	168604	-0.10
38 TOCP	129625	64813	259250	144252	11.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	0.00
38 TOCP	28.68	28.18	29.18	28.69	0.01

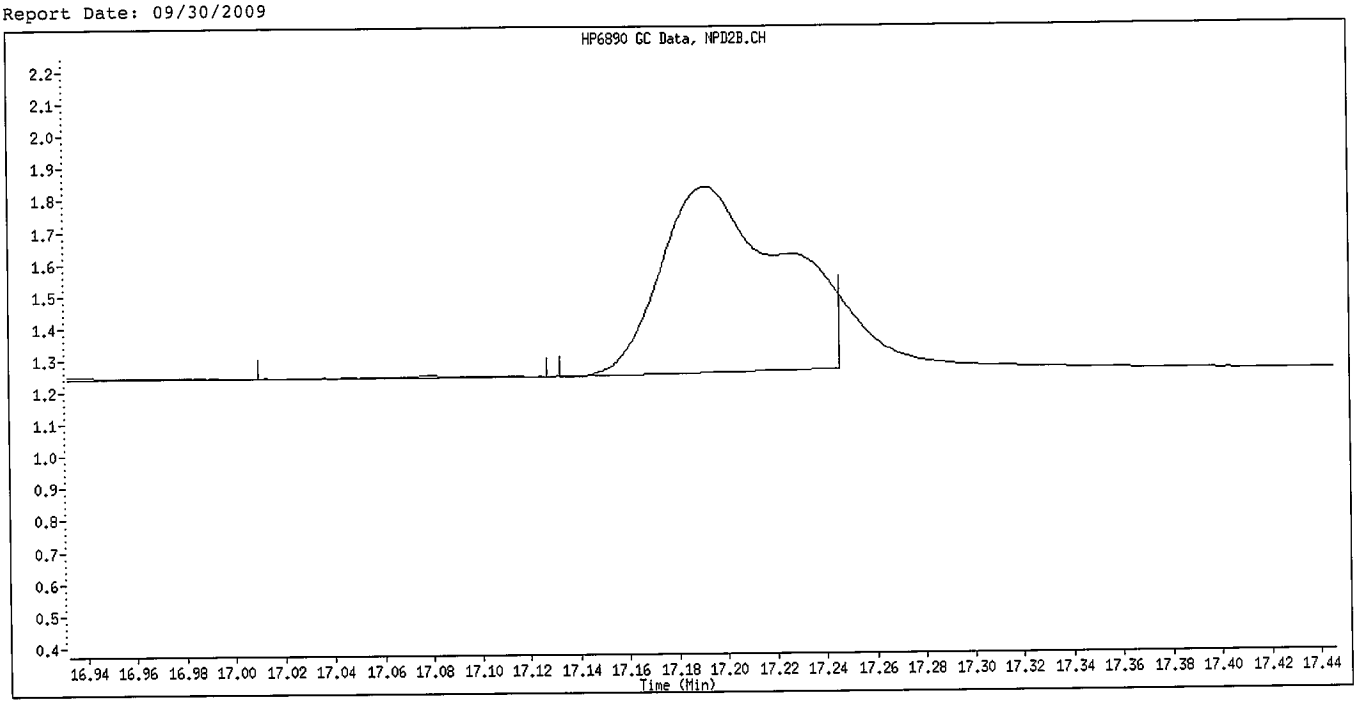
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



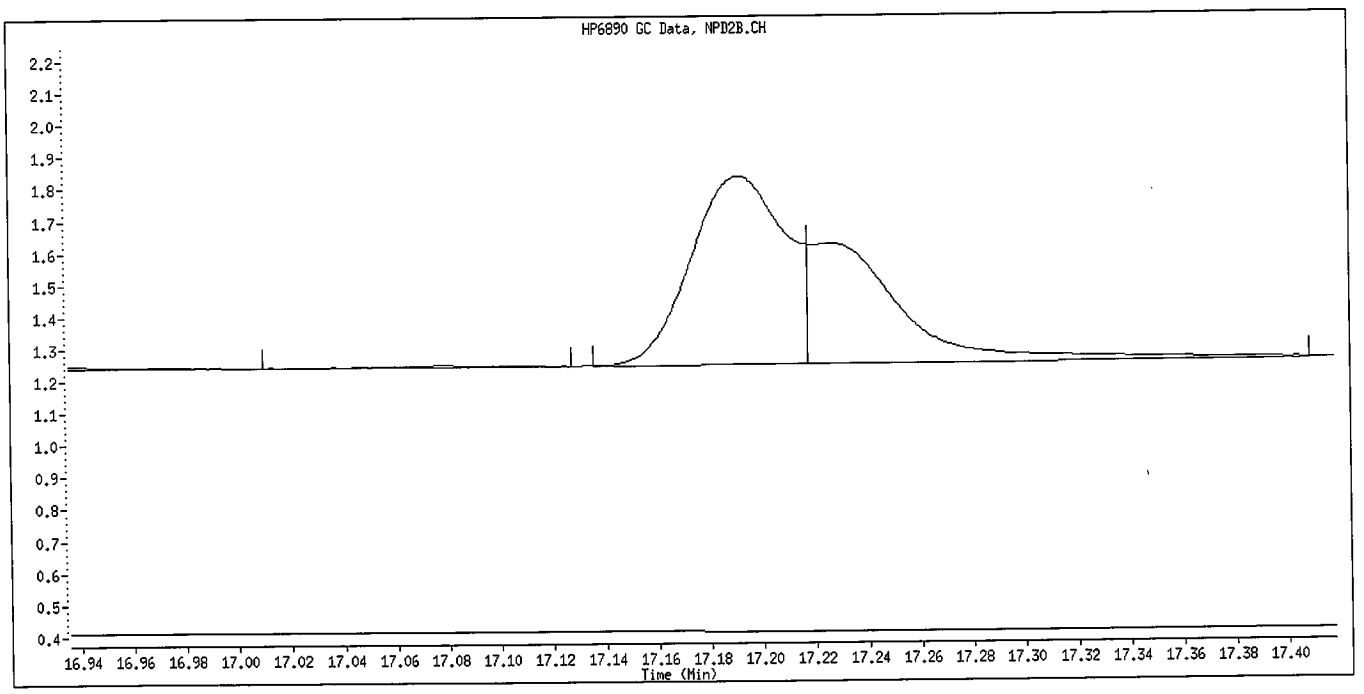
Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929092.B\007F0701.D
Date : 29-SEP-2009 14:59
Client ID: 8141 L3 GSV1081
Sample Info: 8141 L3 GSV1081
Column phase: RTx-OPPest

Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Sulfotepp
CAS #:
Report Date: 09/30/2009



Original Integration

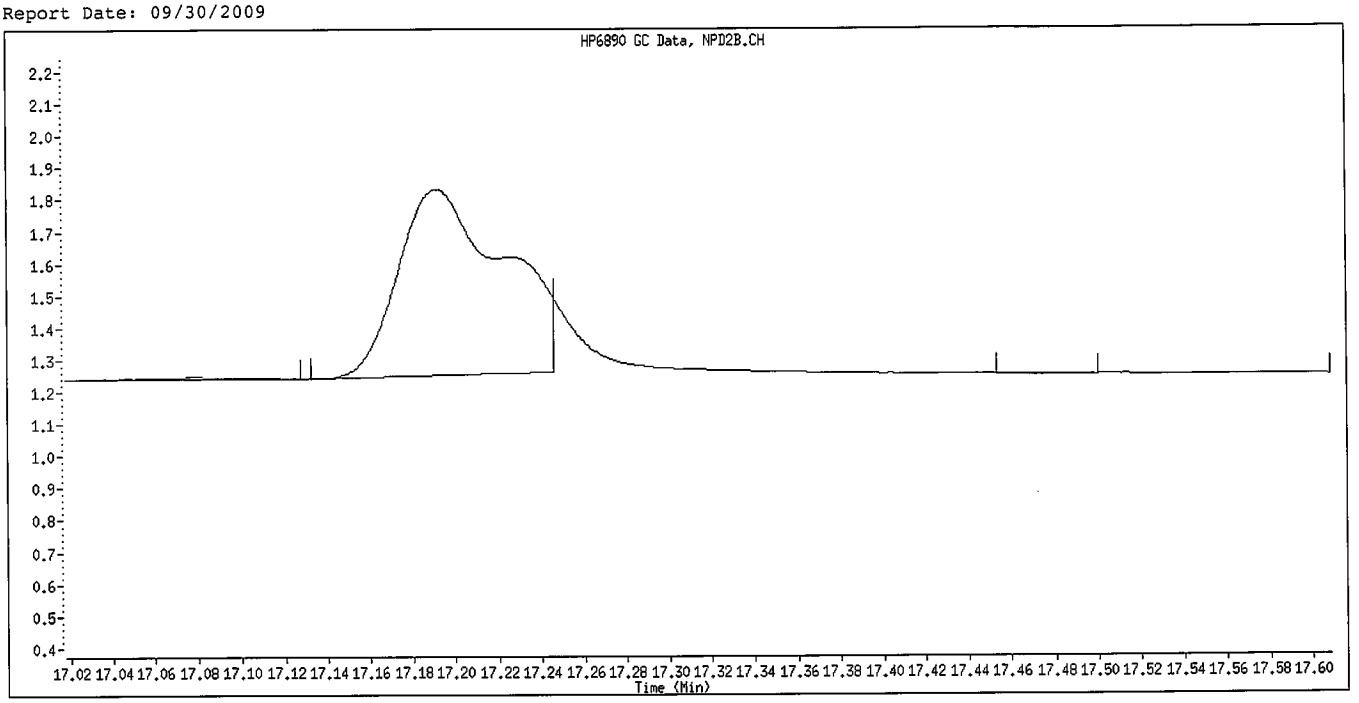


Manual Integration

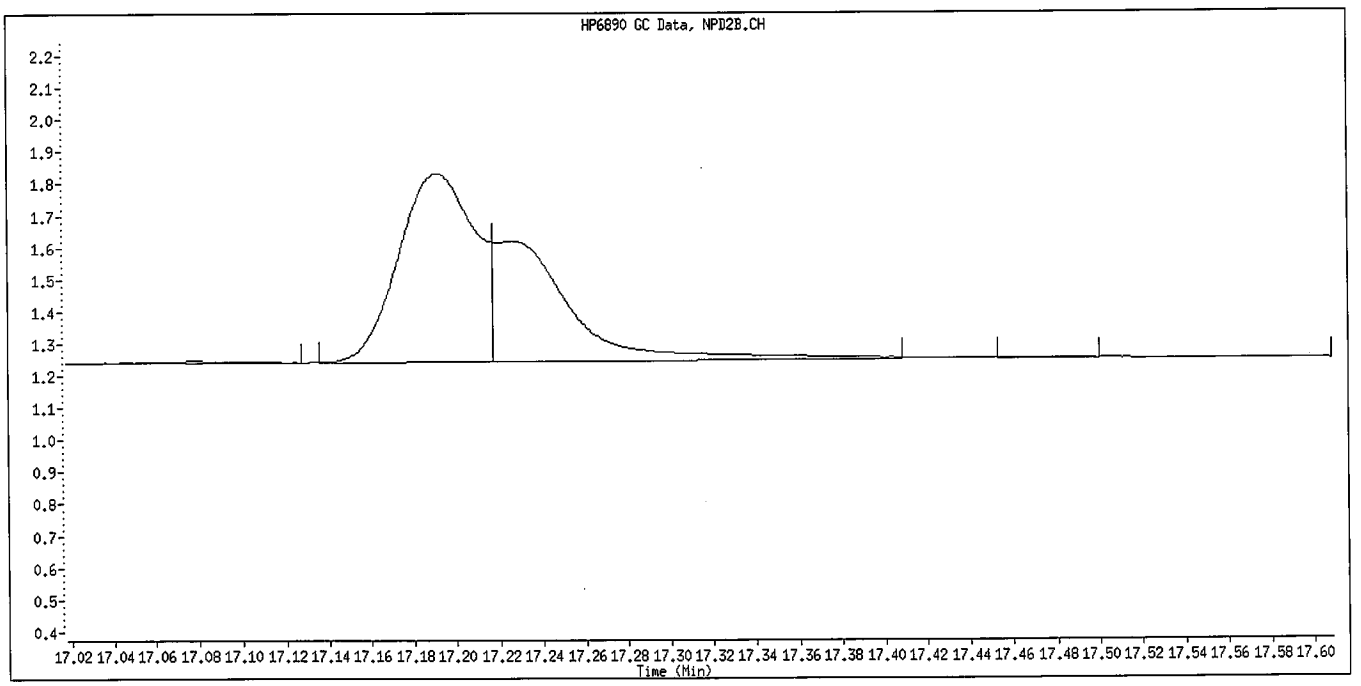
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

YE 9/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration

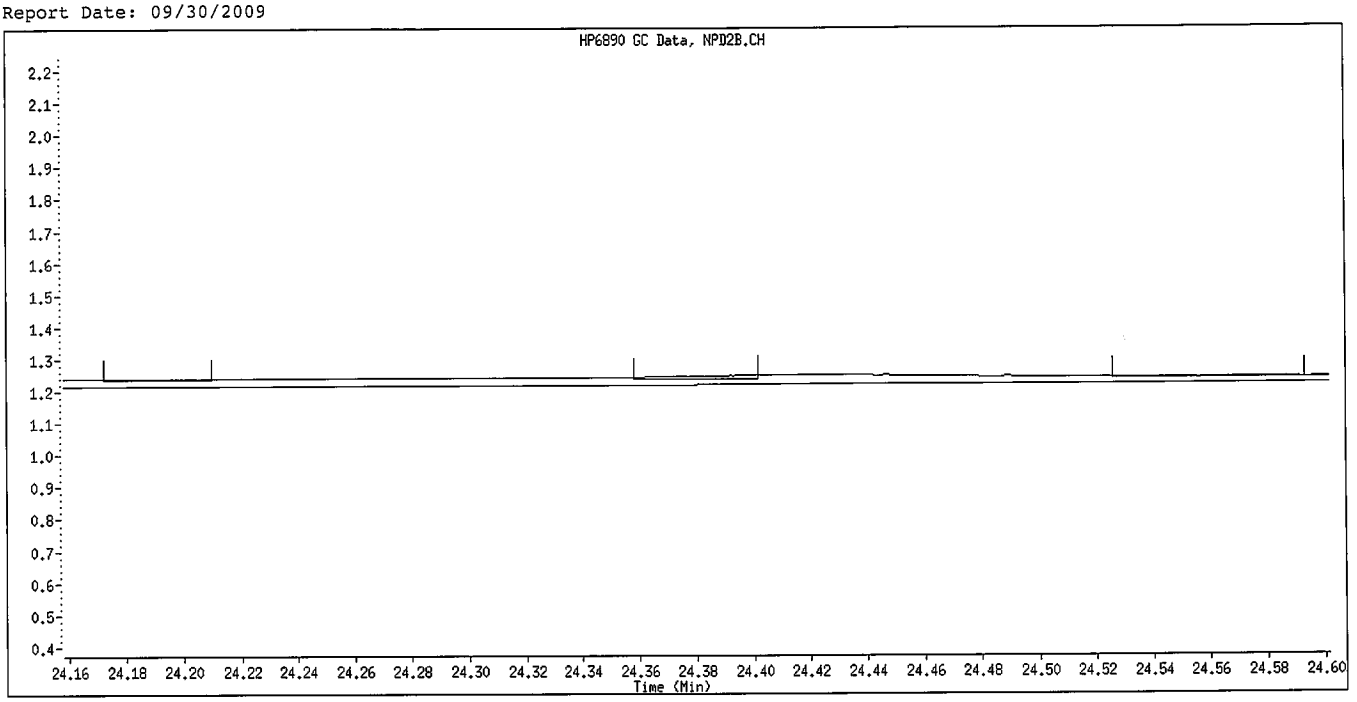


Manual Integration

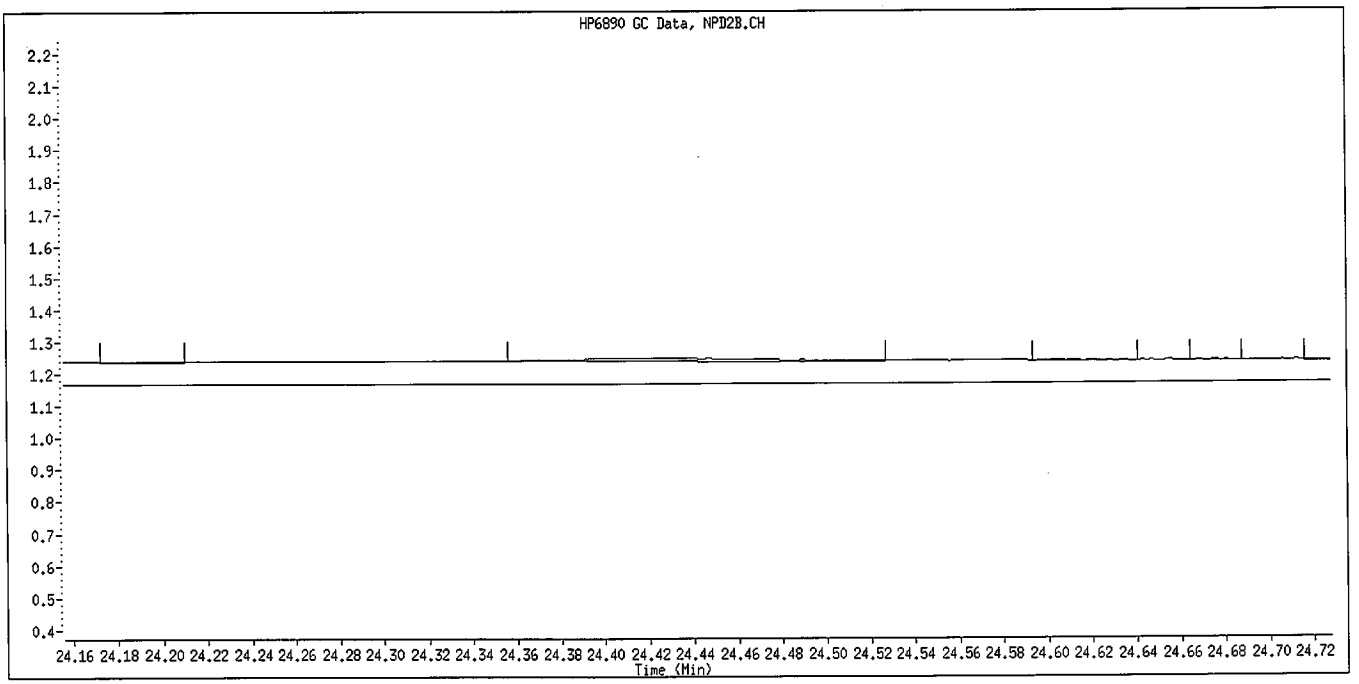
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

YL 9/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 29-SEP-2009 14:59
Instrument ID: GC_D.i
Client ID: 8141 L3 GSV1081
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

BAS - Baseline Event

DMT 9/30/09

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Lab Smp Id: 8141 L2 GSV1082 Client Smp ID: 8141 L2 GSV1082
Inj Date : 29-SEP-2009 15:35
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L2 GSV1082
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 14:59 Cal File: 007F0701.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.729	6.726	(0.417)	82035	0.50000	0.5441
	2 Dichlorvos	8.908	8.903	(0.551)	54251	0.50000	0.5054
$	3 Chlormefos	12.839	12.838	(0.795)	51707	0.50000	0.5036
	4 Mevinphos	12.960	12.953	(0.802)	31965	0.50000	0.4957
	5 Demeton-O	15.903	15.901	(0.985)	10143	0.16250	0.1589
	6 Thionazin	16.033	16.027	(0.993)	46840	0.50000	0.5044
*	7 Tributylphosphate	16.153	16.146	(1.000)	180030	2.00000	
	8 Ethoprop	16.295	16.290	(1.009)	78683	0.50000	0.5230
	9 Naled	16.880	16.873	(1.045)	10270	0.50000	0.3991
	10 Sulfotepp	17.191	17.189	(1.064)	72236	0.50000	0.4064(M)
	11 Phorate	17.228	17.225	(1.067)	46032	0.50000	0.4110(M)
	12 Demeton-S	17.928	17.914	(1.110)	22639	0.34000	0.3295
	13 Simazine	18.342	18.324	(1.136)	2982	0.50000	0.4893
	14 Atrazine / Propazine	18.401	18.391	(1.139)	30702	1.00000	0.9325
	15 Dimethoate	18.547	18.518	(1.148)	35698	0.50000	0.4719
	16 Diazinon	18.925	18.919	(1.172)	45379	0.50000	0.5090
	17 Disulfoton	19.190	19.182	(1.188)	45667	0.50000	0.5050
	18 Methyl Parathion	21.095	21.081	(0.735)	29837	0.50000	0.4606
	19 Ronnel	21.176	21.170	(0.738)	46165	0.50000	0.4758
	20 Malathion	22.441	22.430	(0.782)	31859	0.50000	0.4797
	21 Chlorpyrifos	22.595	22.586	(0.788)	39270	0.50000	0.4710
	22 Trichloronate	22.765	22.757	(0.794)	40109	0.50000	0.4625
	23 Parathion	22.820	22.810	(0.796)	39453	0.50000	0.4940
	24 Fenthion	22.888	22.881	(0.798)	56987	0.50000	0.5208
	25 Merphos-A (Merphos)	Compound Not Detected.					
	26 Anilazine	24.433	24.396	(0.852)	2028	0.50000	0.4297(M)
	27 Tetrachlorvinphos (stirophos)	25.839	25.828	(0.901)	22635	0.50000	0.4725
	28 Tokuthion	26.016	26.009	(0.907)	42802	0.50000	0.4579
	29 Merphos-B (Merphos oxone)	26.150	26.142	(0.912)	49545	0.50000	0.6037
	30 Carbophenothion methyl	26.984	26.976	(0.941)	31047	0.50000	0.4753
	31 Fensulfothion	27.224	27.214	(0.949)	26023	0.50000	0.4636
	32 Bolstar	27.330	27.326	(0.953)	40397	0.50000	0.4918
	33 Carbophenothion	27.445	27.440	(0.957)	32880	0.50000	0.4835

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.628	27.624	(0.963)	30107	0.50000	0.4700
$	35 Triphenyl phosphate	27.918	27.914	(0.973)	29573	0.50000	0.4840
	36 EPN	28.225	28.223	(0.984)	36289	0.50000	0.4815
	37 Phosmet	28.354	28.348	(0.988)	27887	0.50000	0.4295
*	38 TOCP	28.685	28.684	(1.000)	155539	2.00000	
	39 Azinphos-methyl	28.803	28.796	(1.004)	32051	0.50000	0.4351
	40 Azinphos-ethyl	29.113	29.106	(1.015)	39849	0.50000	0.4596
	41 Coumaphos	29.440	29.433	(1.026)	38014	0.50000	0.5065
M	42 Total Demeton				32782	0.50000	0.4884
M	43 Merphos				49545	0.50000	0.4819

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

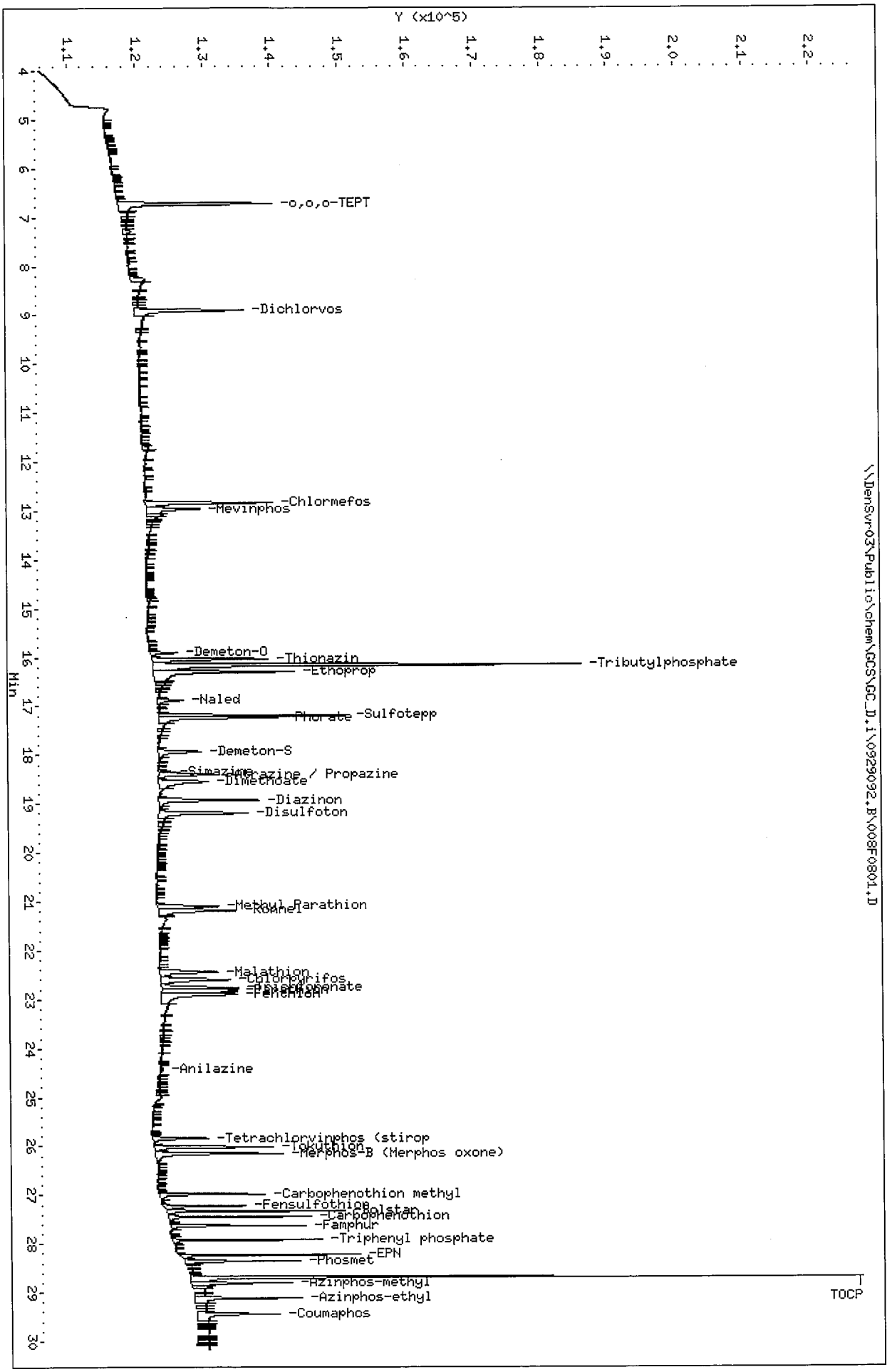
Instrument ID: GC_D.i
Lab File ID: 008F0801.D
Lab Smp Id: 8141 L2 GSV1082
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L2 GSV1082
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	180030	6.67
38 TOCP	129625	64813	259250	155539	19.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	0.03
38 TOCP	28.68	28.18	29.18	28.69	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.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1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
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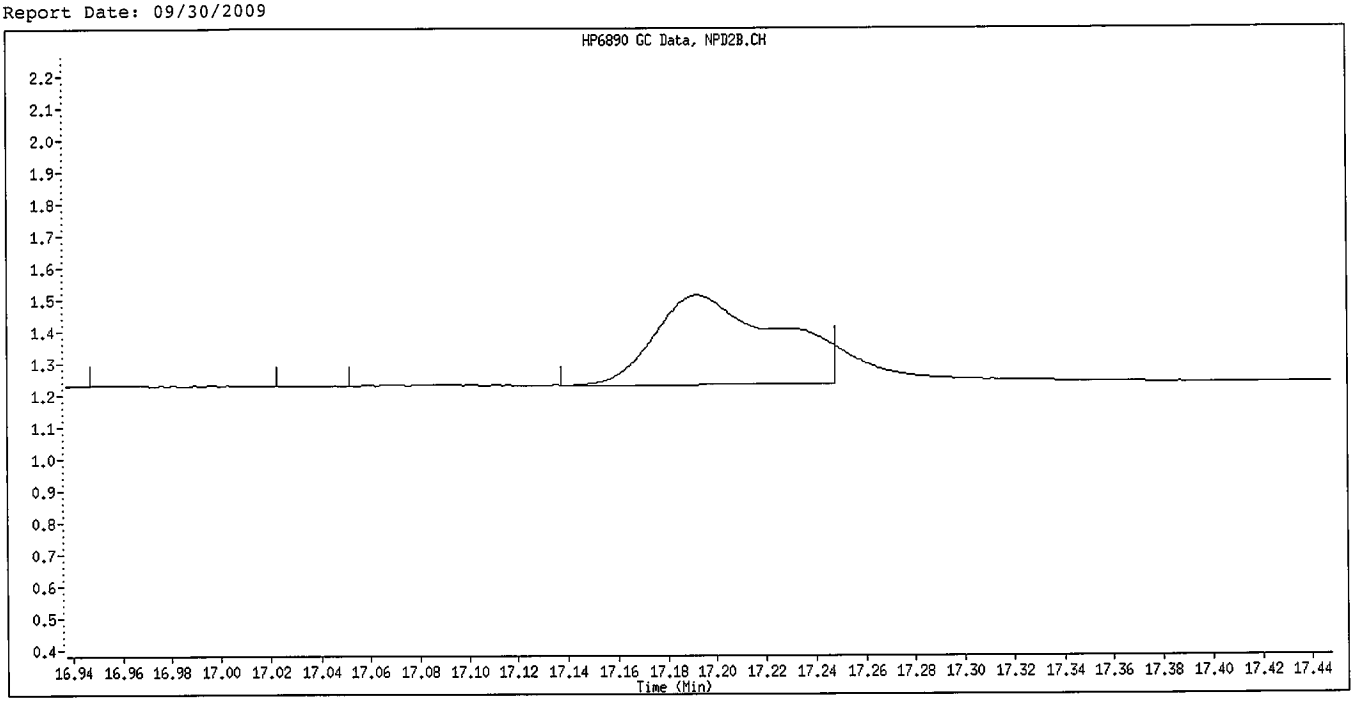
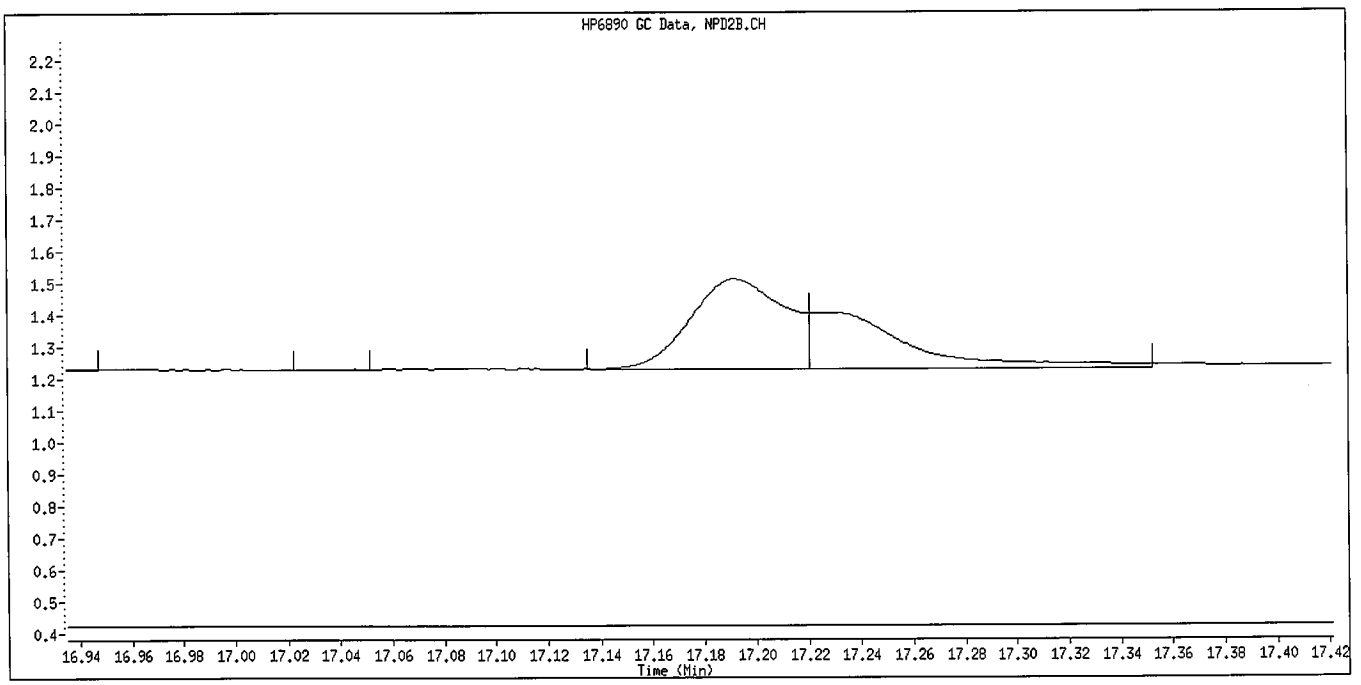
-o,o,o-TEPT
-Dichlorvos
-Chlormefos
-Mevinphos
-Demeton-O
-Thionazin
-Tributylphosphate
-Ethoprop
-Naled
-Phorate
-Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Ronnel
-Malathion
-Chlorpyrifos
-Fenchlorphos
-Fenthion
-Anilazine
-Tetrachlorvinphos (stirop
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Bolstar
-Carbophenothion
-Famphur
-Triphenyl phosphate
-EPN
-Phosmet
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos
TOCP
\\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Data File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\008F0801.D
Date : 29-SEP-2009 15:35
Client ID: 8141 L2 GSV1082
Sample Info: 8141 L2 GSV1082
Column phase: RTx-OPPest
Instrument: GC_D.i
Operator: TLW
Column diameter: 0.32
Page 4

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Sulfotepp
CAS #:
Report Date: 09/30/2009



Original Integration

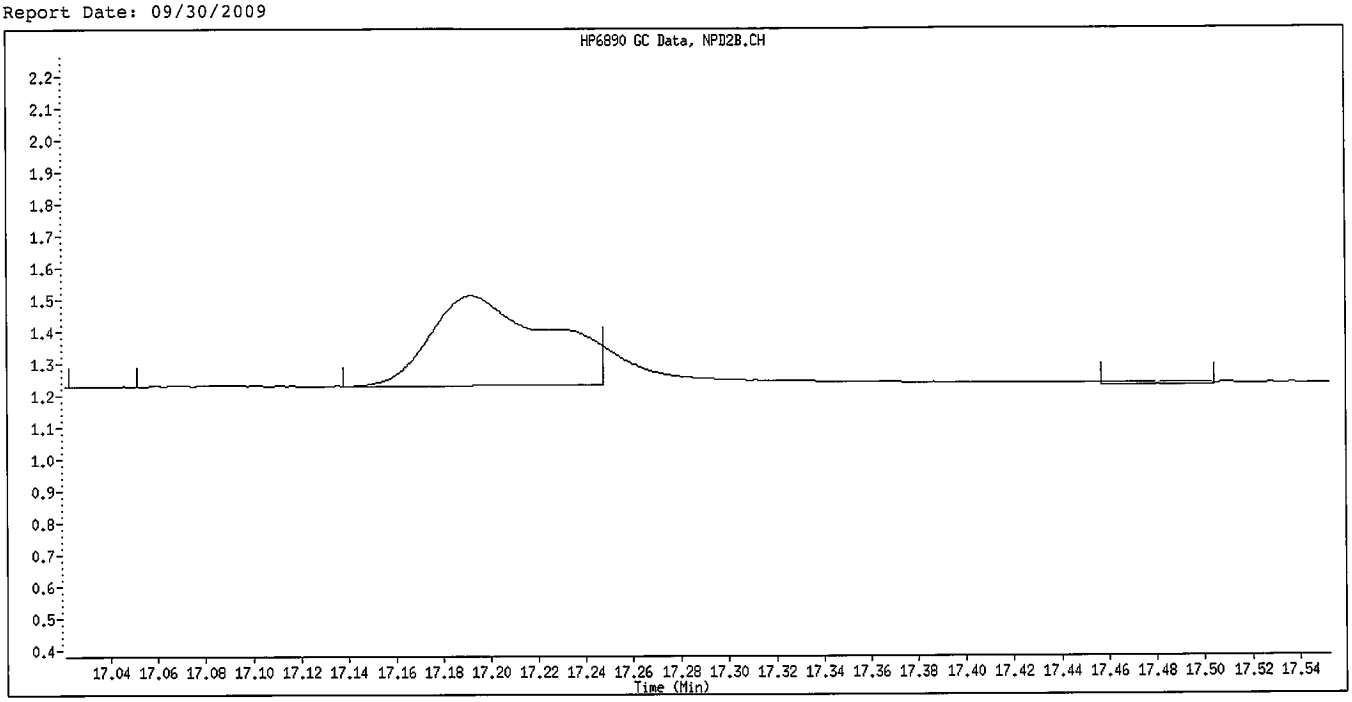


Manual Integration

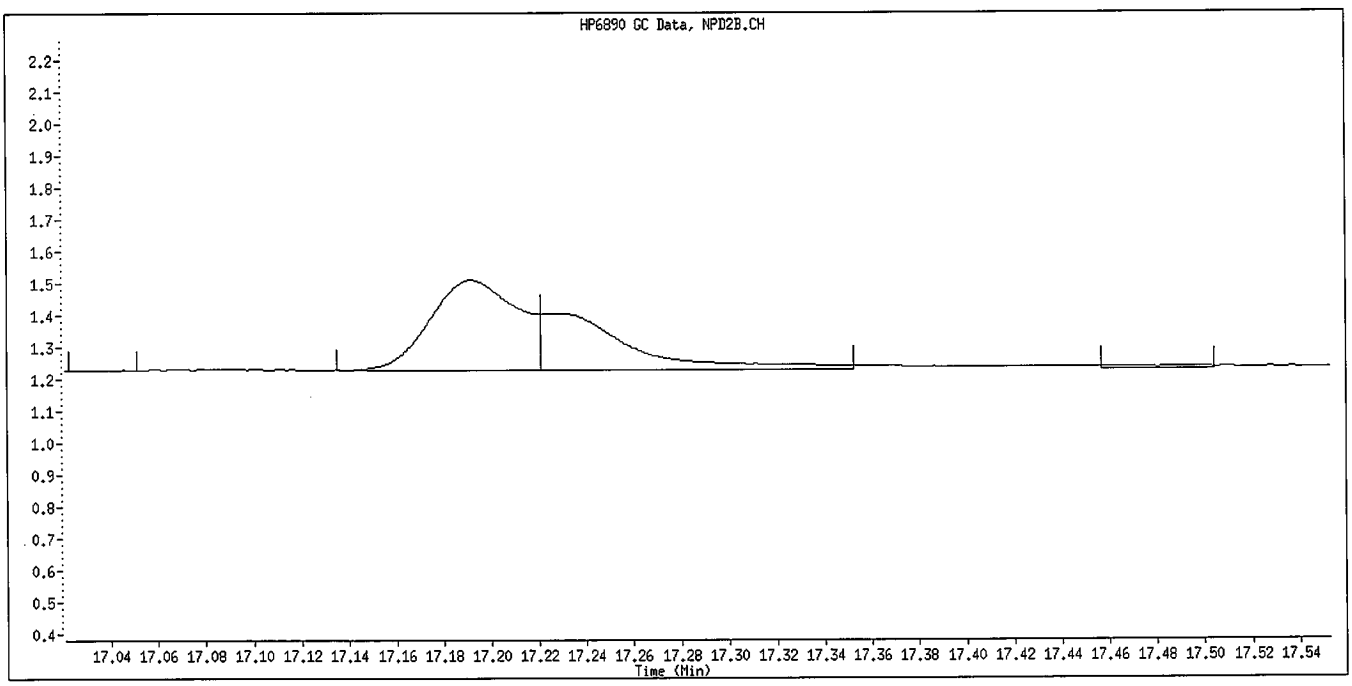
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration

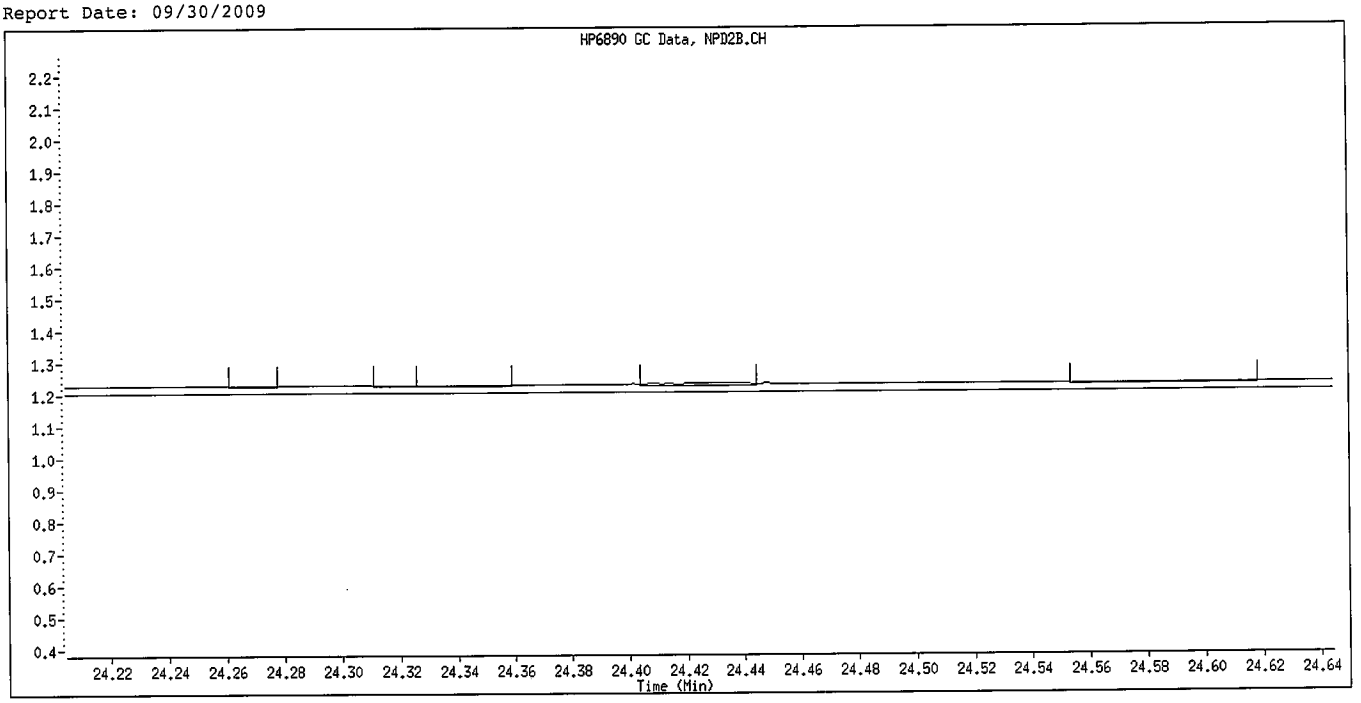


Manual Integration

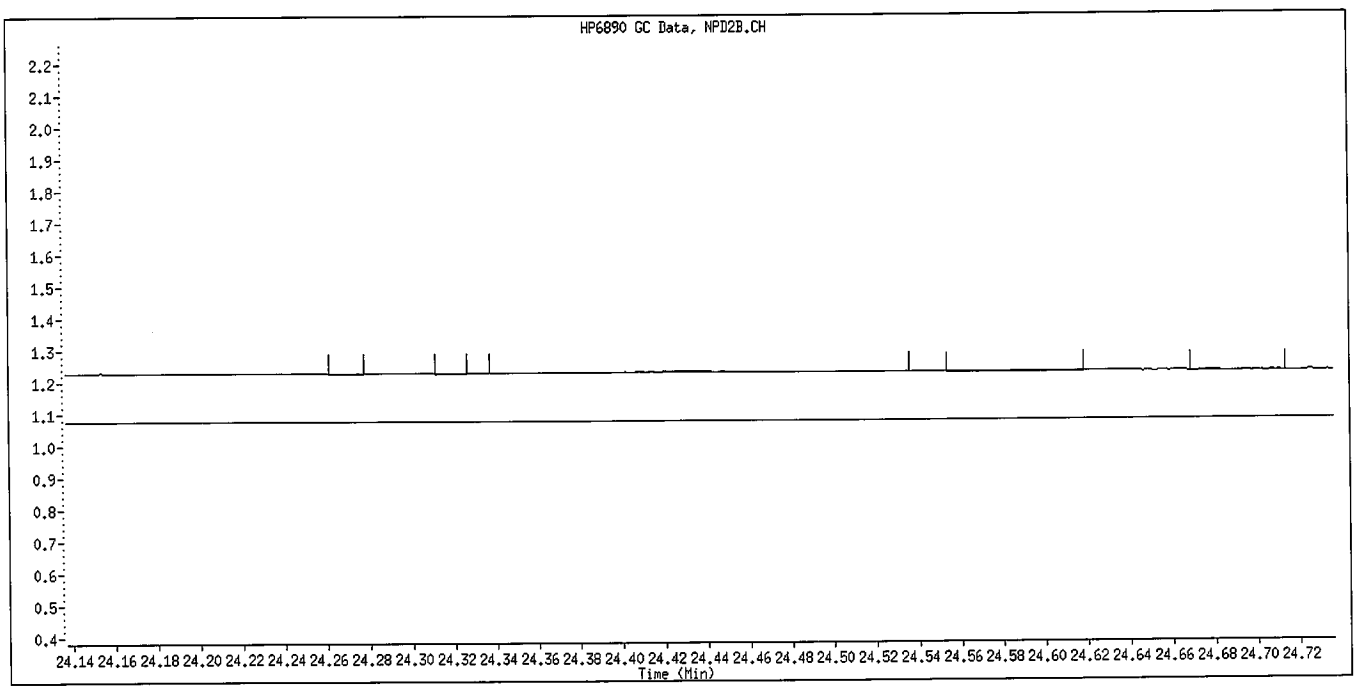
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

YL 9/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 29-SEP-2009 15:35
Instrument ID: GC_D.i
Client ID: 8141 L2 GSV1082
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\009F0901.D
Lab Smp Id: 8141 L1 GSV1083 Client Smp ID: 8141 L1 GSV1083
Inj Date : 29-SEP-2009 16:12
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 L1 GSV1083
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:44 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 15:35 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.729	6.726	(0.417)	28392	0.20000	0.2041
	2 Dichlorvos	8.909	8.903	(0.552)	22631	0.20000	0.2285
$	3 Chlormefos	12.839	12.838	(0.795)	21044	0.20000	0.2221
	4 Mevinphos	12.965	12.953	(0.803)	10365	0.20000	0.1742
	5 Demeton-O	15.905	15.901	(0.985)	3629	0.06500	0.06163
	6 Thionazin	16.034	16.027	(0.993)	15395	0.20000	0.1797
*	7 Tributylphosphate	16.154	16.146	(1.000)	166089	2.00000	
	8 Ethoprop	16.298	16.290	(1.009)	42901	0.20000	0.1966
	9 Naled	16.885	16.873	(1.045)	7830	0.20000	0.3479
	10 Sulfotepp	17.194	17.189	(1.064)	28344	0.20000	0.04546(M)
	11 Phorate	17.219	17.225	(1.066)	27735	0.20000	0.2102(M)
	12 Demeton-S	17.943	17.914	(1.111)	7597	0.13600	0.1362
	13 Simazine	18.319	18.324	(1.134)	103	0.20000	0.3393
	14 Atrazine / Propazine	18.418	18.391	(1.140)	11556	0.40000	0.4081
	15 Dimethoate	18.574	18.518	(1.150)	7995	0.20000	0.2014
	16 Diazinon	18.927	18.919	(1.172)	16730	0.20000	0.2034
	17 Disulfoton	19.198	19.182	(1.188)	16960	0.20000	0.2033
	18 Methyl Parathion	21.110	21.081	(0.736)	8492	0.20000	0.2048
	19 Ronnel	21.186	21.170	(0.739)	18613	0.20000	0.1955
	20 Malathion	22.447	22.430	(0.783)	11736	0.20000	0.2014
	21 Chlorpyrifos	22.604	22.586	(0.788)	14294	0.20000	0.2039
	22 Trichloronate	22.781	22.757	(0.794)	14331	0.20000	0.2057
	23 Parathion	22.833	22.810	(0.796)	12594	0.20000	0.1994
	24 Fenthion	22.896	22.881	(0.798)	20759	0.20000	0.1934
	25 Merphos-A (Merphos)	23.394	23.412	(0.816)	431	0.20000	0.7612
	26 Anilazine	24.401	24.396	(0.851)	550	0.20000	0.2276
	27 Tetrachlorvinphos (stirophos)	25.845	25.828	(0.901)	8356	0.20000	0.2414
	28 Tokuthion	26.021	26.009	(0.907)	16596	0.20000	0.1810
	29 Merphos-B (Merphos oxone)	26.154	26.142	(0.912)	18717	0.20000	0.2325
	30 Carbophenothion methyl	26.986	26.976	(0.941)	11420	0.20000	0.2026
	31 Fensulfothion	27.230	27.214	(0.949)	9459	0.20000	0.2029
	32 Bolstar	27.333	27.326	(0.953)	15694	0.20000	0.1947
	33 Carbophenothion	27.446	27.440	(0.957)	12072	0.20000	0.2000

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.630	27.624	(0.963)	10333	0.20000	0.2025
$	35 Triphenyl phosphate	27.919	27.914	(0.973)	11466	0.20000	0.1913
	36 EPN	28.227	28.223	(0.984)	14715	0.20000	0.1990
	37 Phosmet	28.357	28.348	(0.989)	13126	0.20000	0.2060
*	38 TOCP	28.686	28.684	(1.000)	152602	2.00000	
	39 Azinphos-methyl	28.807	28.796	(1.004)	18426	0.20000	0.2082
	40 Azinphos-ethyl	29.116	29.106	(1.015)	24380	0.20000	0.2050
	41 Coumaphos	29.443	29.433	(1.026)	20151	0.20000	0.1978
M	42 Total Demeton				11226	0.20000	0.1978
M	43 Merphos				19148	0.20000	0.2012

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

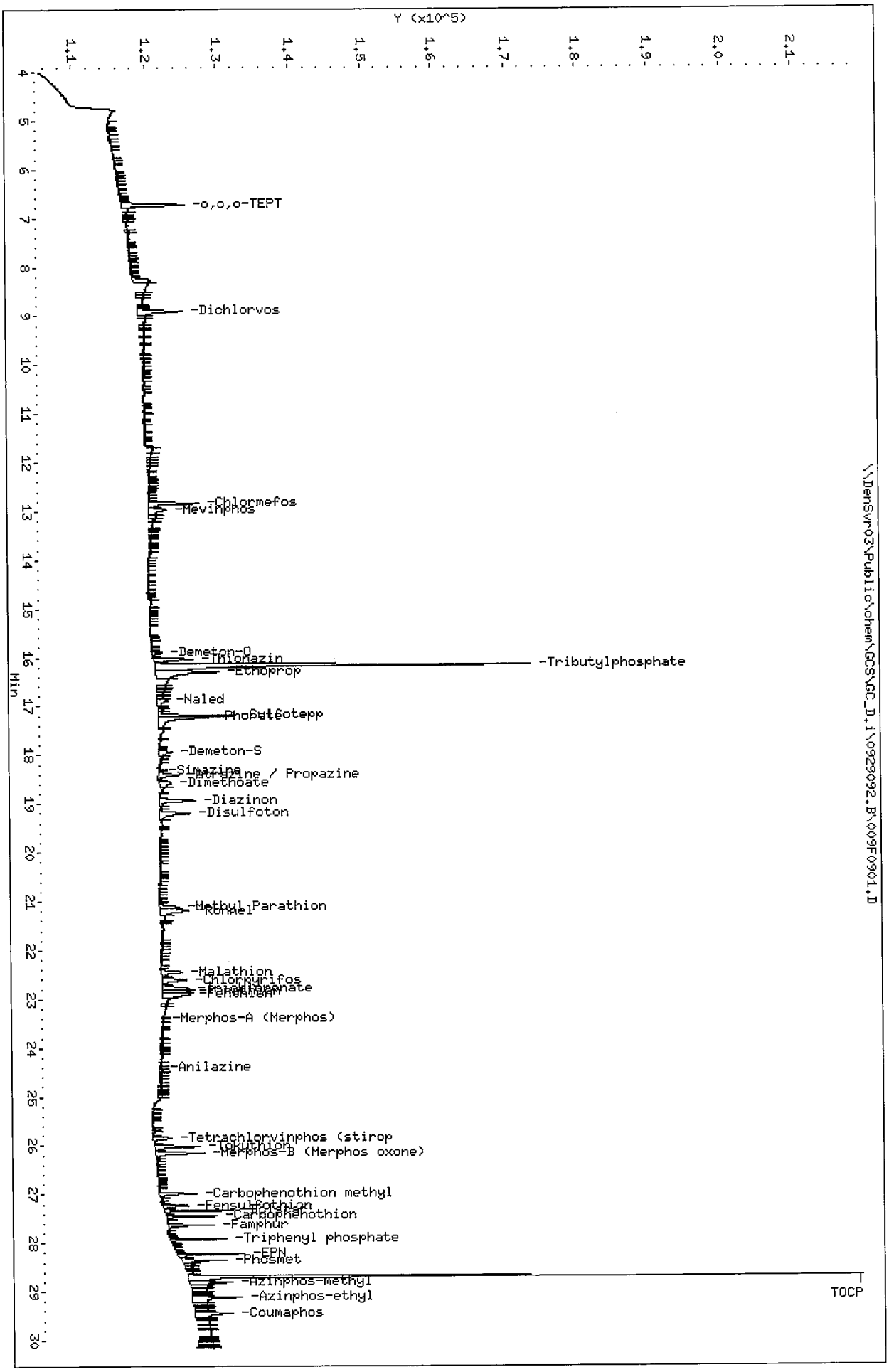
Instrument ID: GC_D.i
Lab File ID: 009F0901.D
Lab Smp Id: 8141 L1 GSV1083
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

Calibration Date: 29-SEP-2009
Calibration Time: 16:49
Client Smp ID: 8141 L1 GSV1083
Level:
Sample Type:

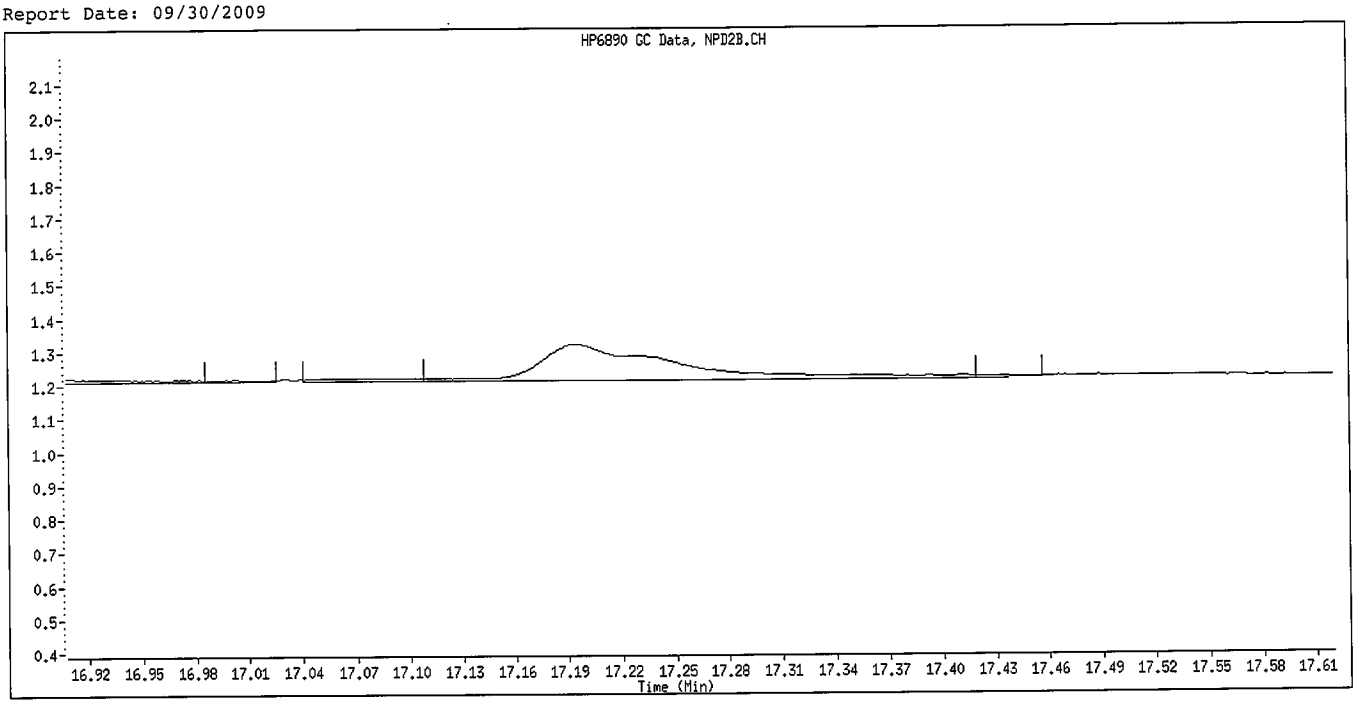
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	168771	84386	337542	166089	-1.59
38 TOCP	129625	64813	259250	152602	17.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.15	15.65	16.65	16.15	0.04
38 TOCP	28.68	28.18	29.18	28.69	0.01

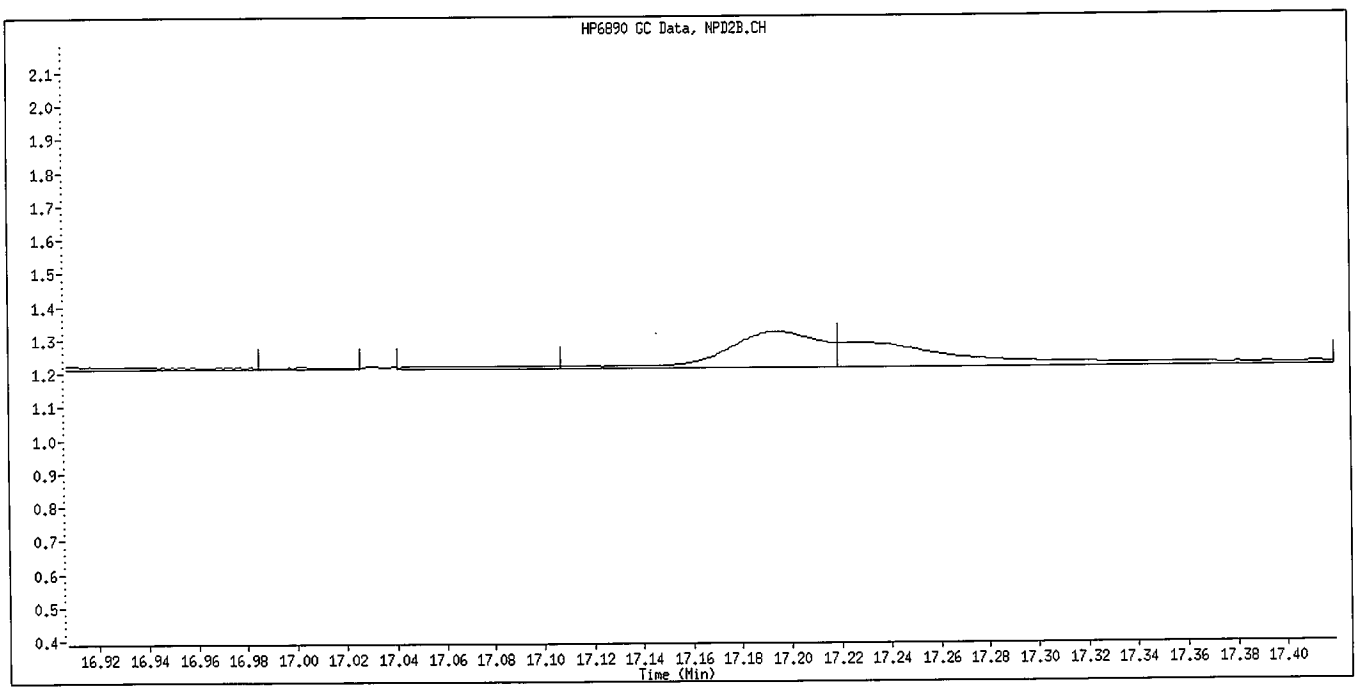
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\009F0901,D
Date : 29-SEP-2009 16:12
Client ID: 8141 L1 GSV1083
Sample Info: 8141 L1 GSV1083
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0,32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\009F0901,D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Tributylphosphate
-Naled
-Demeton-S
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Carbophenothion
-Famphur
-Triphenyl phosphate
-EPN
-Phosmet
-Azinphos-methyl
-Azinphos-ethyl
-Coumaphos
TOCP

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Sulfotepp
CAS #:
Report Date: 09/30/2009



Original Integration

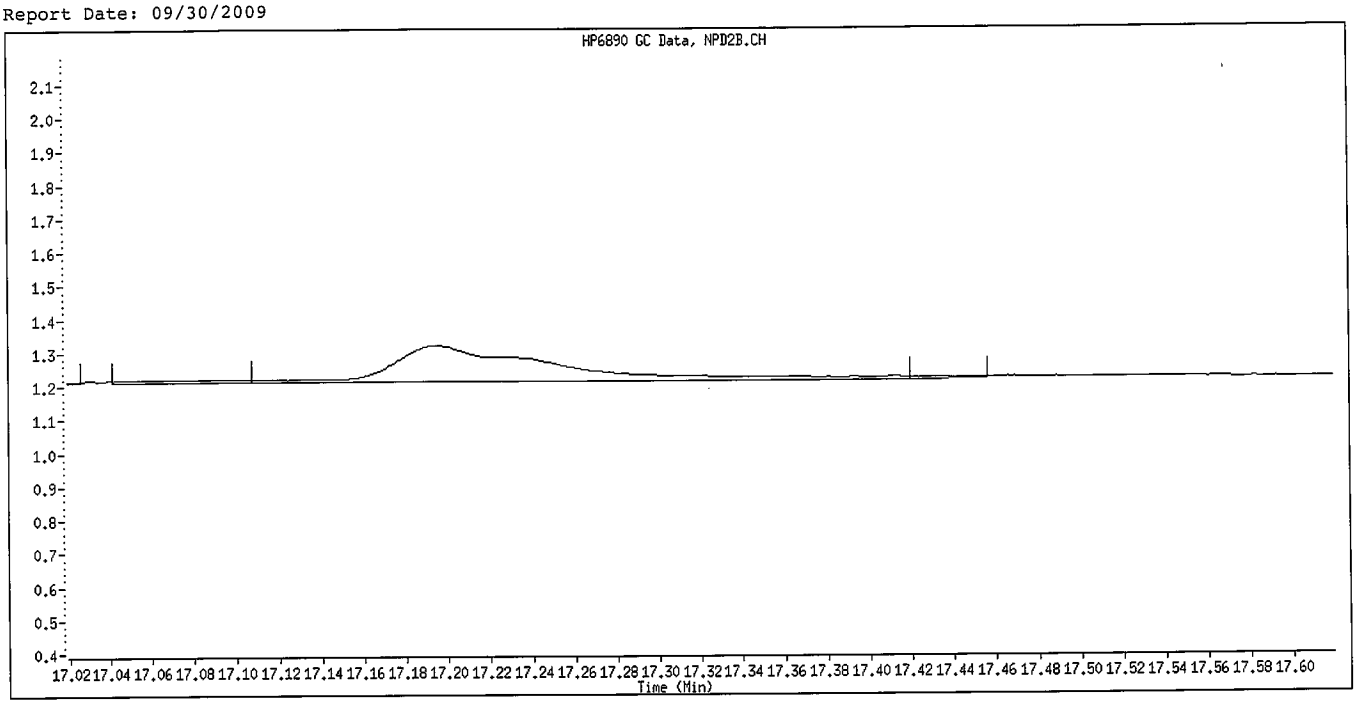


Manual Integration

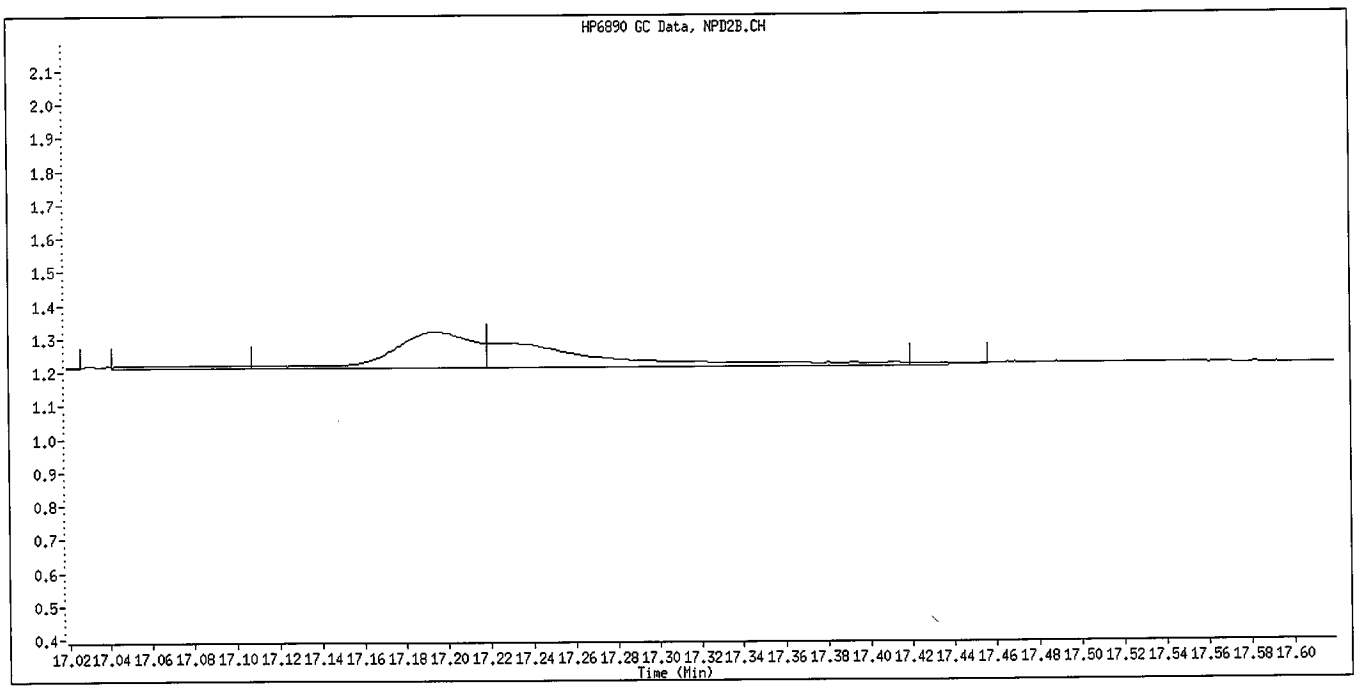
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 29-SEP-2009 16:12
Instrument ID: GC_D.i
Client ID: 8141 L1 GSV1083
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\010F1001.D
Lab Smp Id: 8141 SS GSV1107 Client Smp ID: 8141 SS GSV1107
Inj Date : 29-SEP-2009 16:49
Operator : TLW Inst ID: GC_D.i
Smp Info : 8141 SS GSV1107
Misc Info : IS GSV1076-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Meth Date : 30-Sep-2009 08:51 GC_D.i Quant Type: ISTD
Cal Date : 29-SEP-2009 16:12 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)	AMOUNTS ON-COL (ug/mL)
	1 o,o,o-TEPT	6.727	6.726	(0.417)	290395	2.00000	2.054
	2 Dichlorvos	8.904	8.903	(0.551)	182949	2.00000	1.818
$	3 Chlormefos	12.838	12.838	(0.795)	191110	2.00000	1.985
	4 Mevinphos	12.955	12.953	(0.802)	94676	2.00000	1.566
	5 Demeton-O	15.902	15.901	(0.985)	121900	0.65000	2.037
	6 Thionazin	16.028	16.027	(0.993)	178473	2.00000	2.050
*	7 Tributylphosphate	16.148	16.146	(1.000)	168771	2.00000	
	8 Ethoprop	16.291	16.290	(1.009)	197083	2.00000	1.857
	9 Naled	16.875	16.873	(1.045)	52510	2.00000	1.711
	10 Sulfotepp	17.190	17.189	(1.065)	212176	2.00000	1.746(M)
	11 Phorate	17.226	17.225	(1.067)	148292	2.00000	1.821(M)
	12 Demeton-S	17.922	17.914	(1.110)	4747	1.36000	0.09365
	13 Simazine	18.327	18.324	(1.135)	33861	2.00000	2.221
	14 Atrazine / Propazine	18.391	18.391	(1.139)	115761	4.00000	3.609
	15 Dimethoate	18.523	18.518	(1.147)	168267	2.00000	1.911
	16 Diazinon	18.921	18.919	(1.172)	144694	2.00000	1.731
	17 Disulfoton	19.183	19.182	(1.188)	160206	2.00000	1.890
	18 Methyl Parathion	21.083	21.081	(0.735)	123385	2.00000	1.888
	19 Ronnel	21.168	21.170	(0.738)	162555	2.00000	2.010
	20 Malathion	22.432	22.430	(0.782)	99352	2.00000	1.702
	21 Chlorpyrifos	22.586	22.586	(0.787)	140613	2.00000	1.871
	22 Trichloronate	22.760	22.757	(0.793)	137983	2.00000	1.726
	23 Parathion	22.812	22.810	(0.795)	143683	2.00000	1.966
	24 Fenthion	22.881	22.881	(0.798)	173970	2.00000	1.908
	25 Merphos-A (Merphos)	23.411	23.412	(0.816)	18424	2.00000	1.190
	26 Anilazine	24.410	24.396	(0.851)	6094	2.00000	1.157(M)
	27 Tetrachlorvinphos (stirophos)	25.831	25.828	(0.901)	83138	2.00000	1.704
	28 Tokuthion	26.012	26.009	(0.907)	149222	2.00000	1.916
	29 Merphos-B (Merphos oxone)	26.143	26.142	(0.911)	141233	2.00000	2.065
	30 Carbophenothion methyl	26.977	26.976	(0.941)	72868	2.00000	1.268
	31 Fensulfothion	27.215	27.214	(0.949)	99452	2.00000	1.949
	32 Bolstar	27.326	27.326	(0.953)	138340	2.00000	2.021
	33 Carbophenothion	27.440	27.440	(0.957)	117933	2.00000	1.980

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 Famphur	27.624	27.624	(0.963)	117070	2.00000	1.978
$	35 Triphenyl phosphate	27.914	27.914	(0.973)	106386	2.00000	2.089
	36 EPN	28.222	28.223	(0.984)	127684	2.00000	2.033
	37 Phosmet	28.349	28.348	(0.988)	111795	2.00000	2.066
*	38 TOCP	28.683	28.684	(1.000)	129625	2.00000	
	39 Azinphos-methyl	28.797	28.796	(1.004)	92557	2.00000	1.786
	40 Azinphos-ethyl	29.107	29.106	(1.015)	107007	2.00000	1.963
	41 Coumaphos	29.433	29.433	(1.026)	98544	2.00000	1.924
M	42 Total Demeton				126647	2.00000	2.131
M	43 Merphos				159657	2.00000	1.809

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

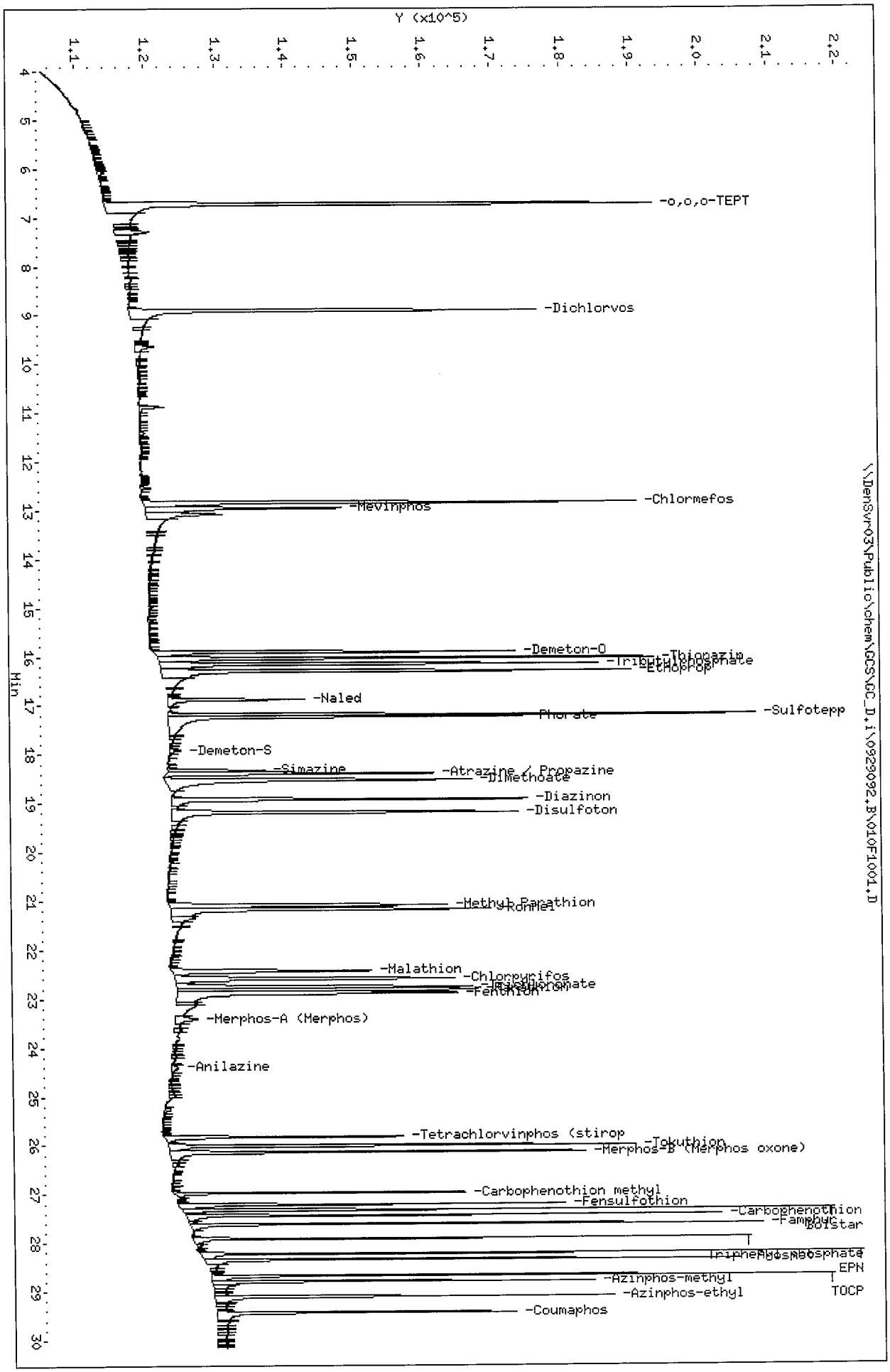
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D.i
Lab File ID: 010F1001.D
Lab Smp Id: 8141 SS GSV1107
Analysis Type: SV
Quant Type: ISTD
Operator: TLW
Calibration Date: 30-SEP-2009
Calibration Time: 03:08
Client Smp ID: 8141 SS GSV1107
Level:
Sample Type:
Method File: \\DenSvr03\Public\chem\GCS\GC_D.i\0929092.B\8141A-2.m
Misc Info: IS GSV1076-09

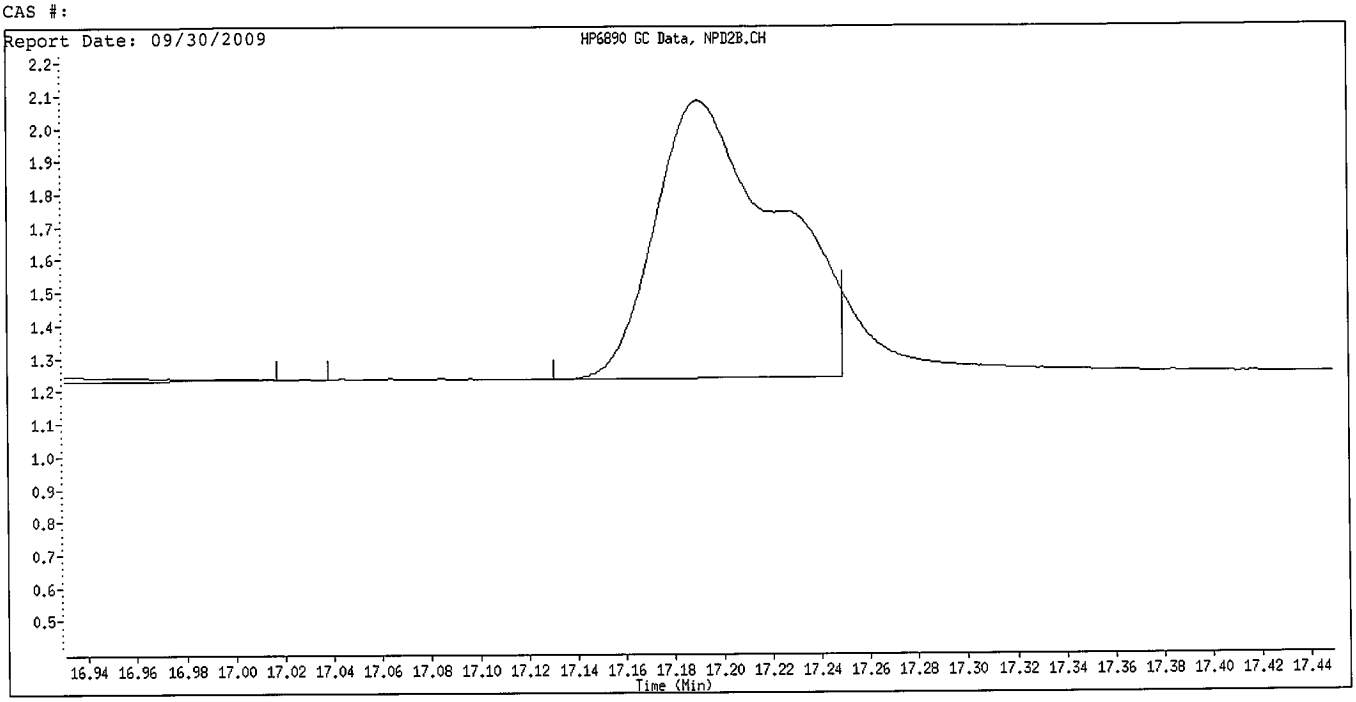
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	301065	150533	602130	168771	-43.94
38 TOCP	232028	116014	464056	129625	-44.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 Tributylphosphate	16.14	15.64	16.64	16.15	0.05
38 TOCP	28.68	28.18	29.18	28.68	0.01

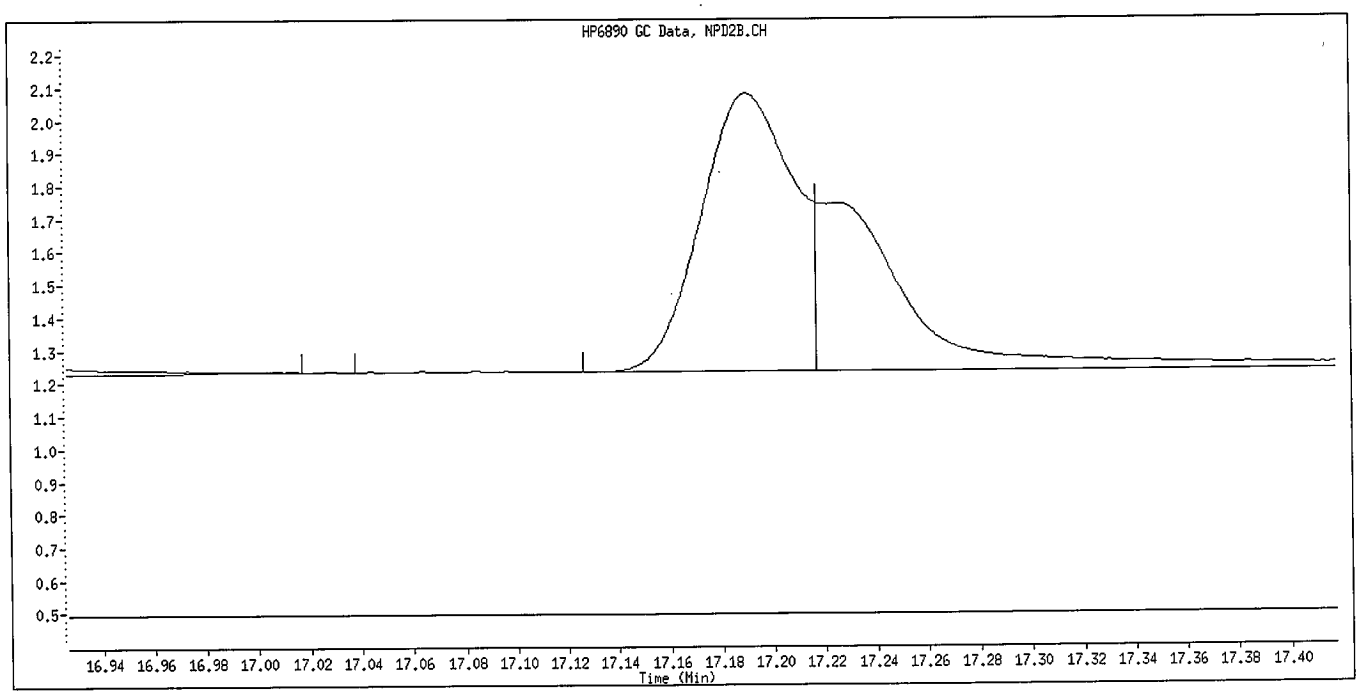
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\010F1001.D
Date : 29-SEP-2009 16:49
Client ID: 8141 SS GSV107
Sample Info: 8141 SS GSV107
Column phase: RTx-OPPest
Instrument: GC_D,i
Operator: TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D,i\0929092,B\010F1001.D
Y (x10^5)
Min
-o,o,o-TEPT
-Dichlorvos
-Mevinphos
-Chlormefos
-Demeton-O
-Thionazin
-Tributylphosphate
-Ethoprop
-Naled
-Phorate
-Sulfotepp
-Demeton-S
-Simazine
-Atrazine / Propazine
-Dimethoate
-Diazinon
-Disulfoton
-Methyl Parathion
-Malathion
-Chlorpyrifos
-Fenchlorphos
-Merphos-A (Merphos)
-Anilazine
-Tetrachlorvinphos (stirop
-Tokuthion
-Merphos-B (Merphos oxone)
-Carbophenothion methyl
-Fensulfothion
-Carbophenothion
-Famphur
-Triphenylphosphate
EPN
-Azinphos-methyl
TOCP
-Azinphos-ethyl
-Coumaphos

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Sulfotepp
CAS #:



Original Integration

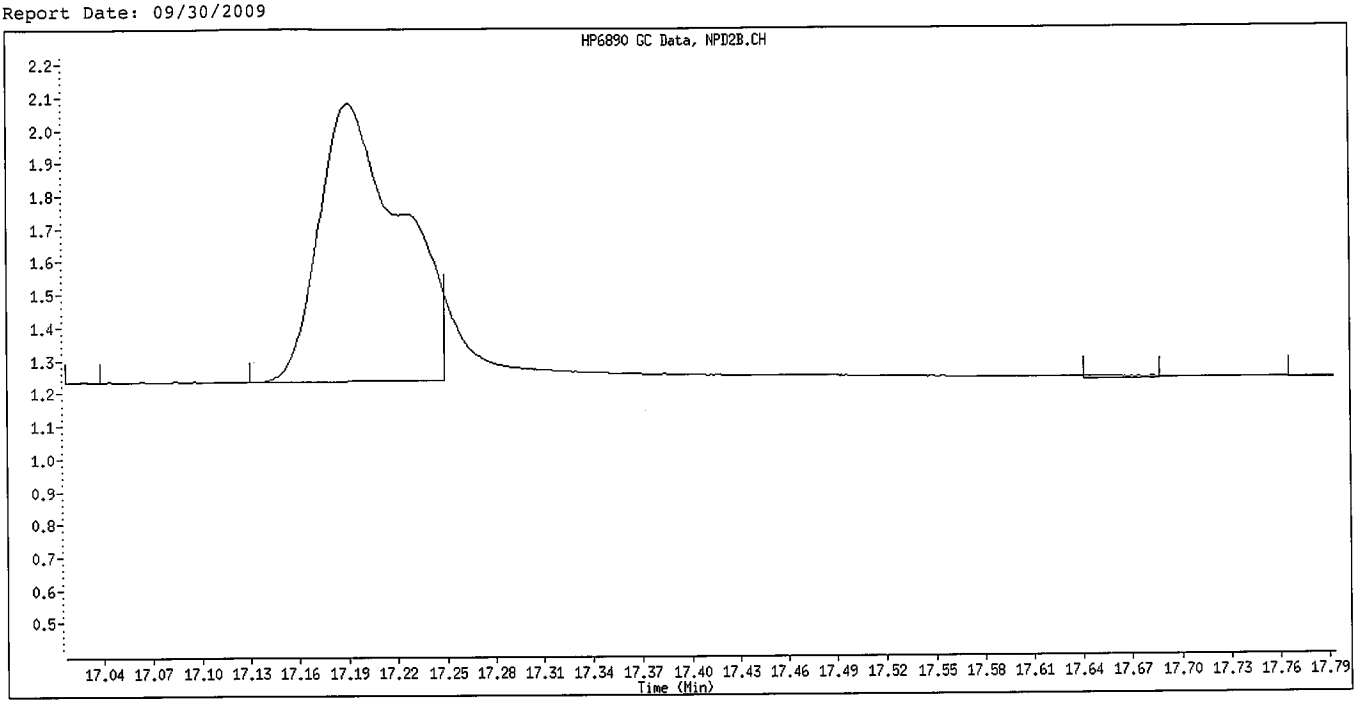


Manual Integration

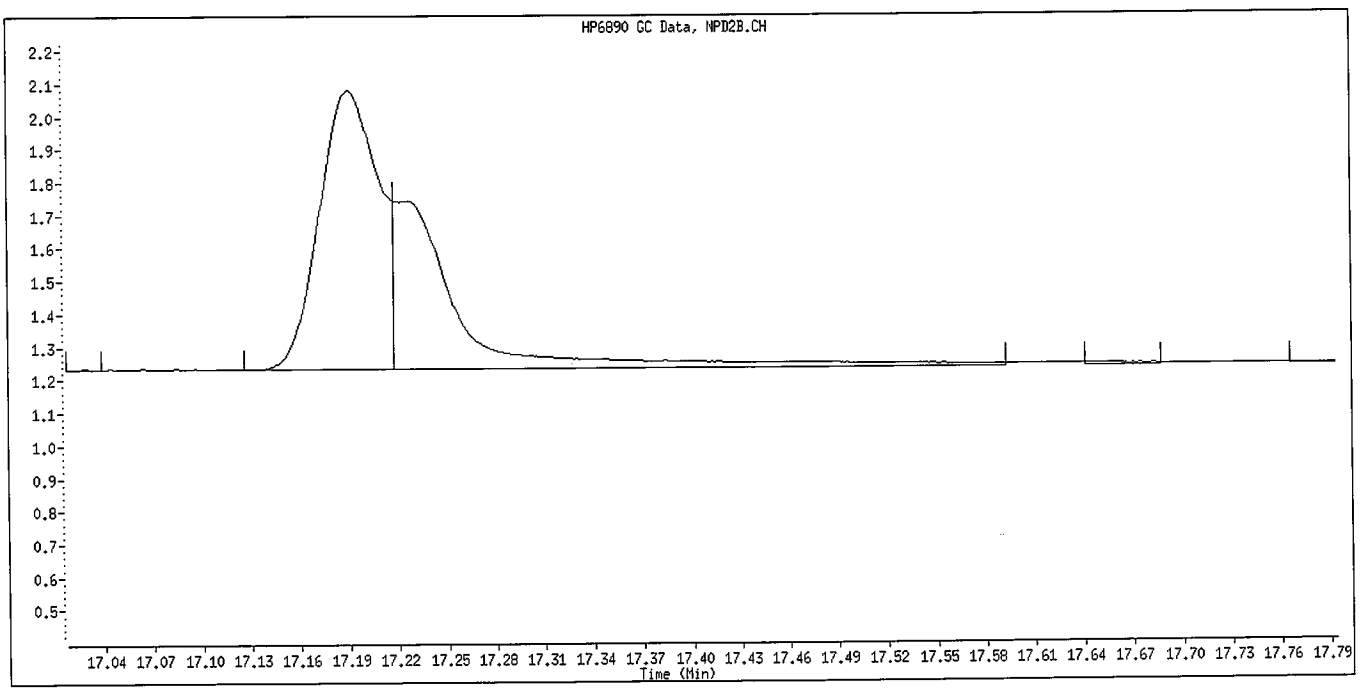
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Phorate
CAS #:
Report Date: 09/30/2009



Original Integration

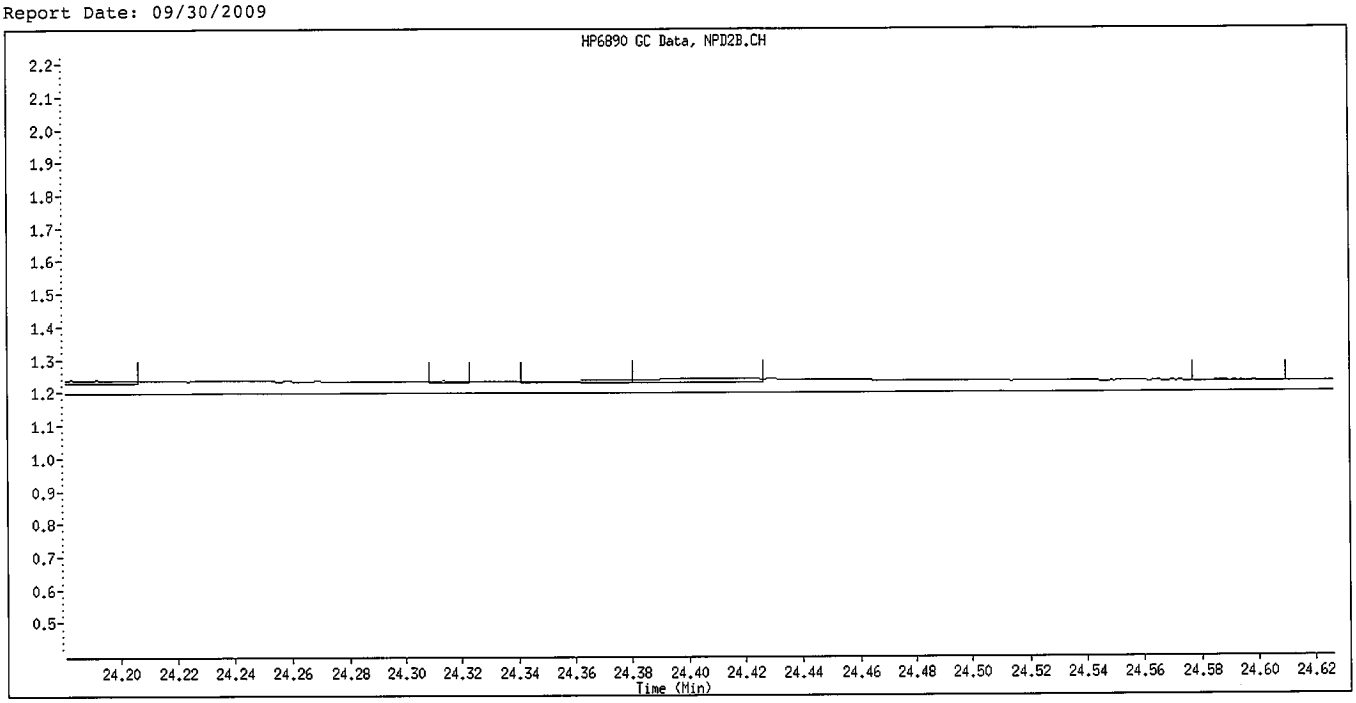


Manual Integration

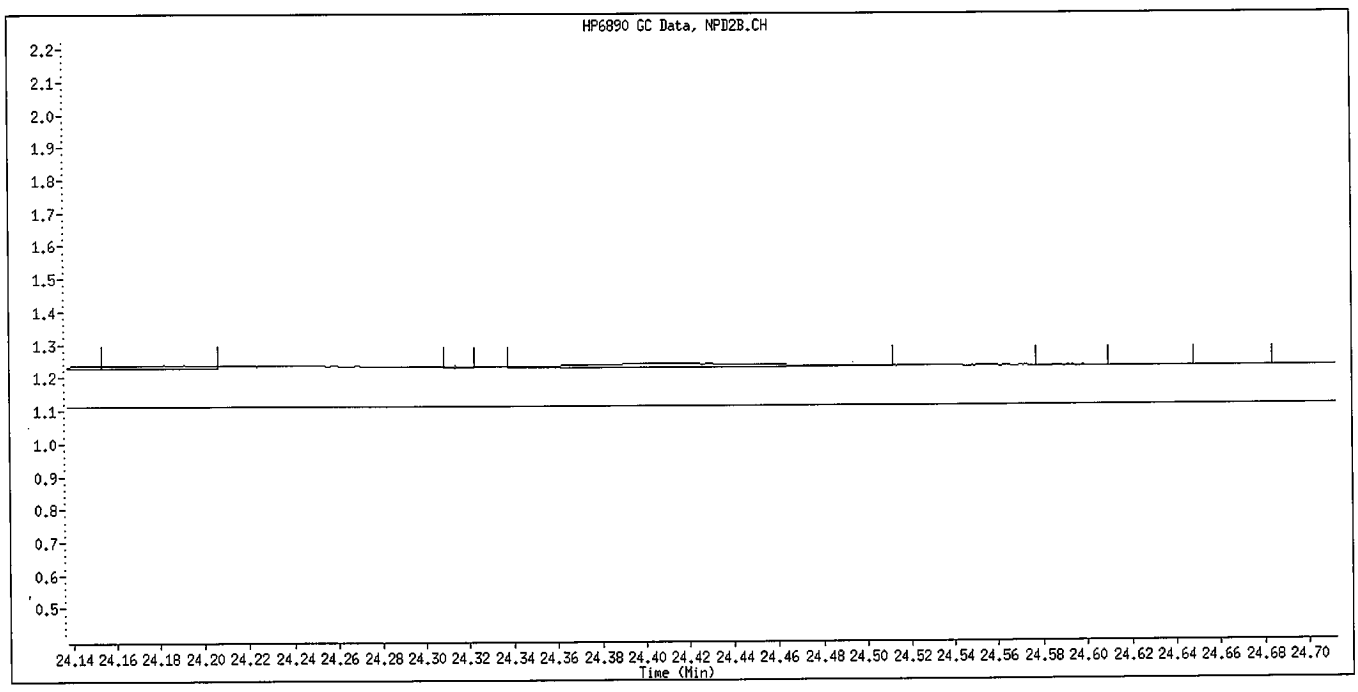
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Data File Name: 010F1001.D
Inj. Date and Time: 29-SEP-2009 16:49
Instrument ID: GC_D.i
Client ID: 8141 SS GSV1107
Compound Name: Anilazine
CAS #:
Report Date: 09/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

9/30/09

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: 09J030137

Client: Northgate Environmental

Batch(es) #: 9278251

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: 10/7/09

Metals Raw Data RoadMap

LotID	*Metal*	*WorkOrder*	*Anal Date*	*TestDesc*	*Batch*	*File Id*	*Instr*
D9J030137 1 D	SE	LL0FG1AH	20091007	6020TOTA	9278251	AG100609	024
D9J030137 1 S	SE	LL0FG1AG	20091007	6020TOTA	9278251	AG100609	024
D9J030137 1 D	AS	LL0FG1AF	20091007	6020TOTA	9278251	AG100609	024
D9J030137 1 S	AS	LL0FG1AE	20091007	6020TOTA	9278251	AG100609	024
D9J030137 1	SE	LL0FG1AC	20091007	6020TOTA	9278251	AG100609	024
D9J030137 1	AS	LL0FG1AA	20091007	6020TOTA	9278251	AG100609	024

METALS
PREPARATION LOGS
ICP-MS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Batch Number: **9278251**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Katie Stoltz

Prep Date: 10/06/09
Due Date: 10/15/09

Lot	Work Order			Initial Weight/Volume
D9J050000 Water	**LL1J7**	B	Due Date: SDG:	50 mL
D9J050000 Water	**LL1J7**	C	Due Date: SDG:	50 mL
D9J030137 Water	**LL0FG** Total		Due Date: 10/15/09 SDG:	50 mL
D9J030137 Water	**LL0FG** Total	S	Due Date: 10/15/09 SDG:	50 mL
D9J030137 Water	**LL0FG** Total	D	Due Date: 10/15/09 SDG:	50 mL
D9J030138 Water	**LL0FJ** Total		Due Date: 10/15/09 SDG:	50 mL
D9J030138 Water	**LL0FK** Total		Due Date: 10/15/09 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 10/6/09

METALS PREP SHEET
SOP: DEN-IP-0014

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH #	9278251	**ALLIQUOTTED BY:**	JRW
PREP DATE:	10.6.2009	**DIGESTED BY:**	KS

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: KS

STANDARDS USED

Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-5353-09	8/28/10	100uL	15
2008Cal-2	STD-4452-09	7/28/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO_3	JT Baker	H14024	3

TEMPERATURE CYCLES

Thermometer ID: 25894 Block & Cup # : 2; 32

Cycle	Start Time	Temperature (°C)	End Time KS	Temperature (°C)
HNO3	7:00	94	11:~~30~~20 10/6/09	94
HNO3	11:30	94	12:00	94
HNO3				

Samples and QC revolumed to: 50 mL Analyst's Initials KS

COMMENTS:

I certify that all information above is correct and complete.

Signature: Katie Orr ***Date:*** 10.6.09

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)
CCV = Continuing Calibration Verification
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank

TestAmerica Denver

Standards Preparation Logbook Record

Oct-06-2009

Logbook: \\Densvr06\StdsLog\metals.std

STD6653-08, 1000 Se

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SE02003 Vendor's Expiration Date: 12-01-2009
Solvent: 2% HNO3
Date Prep./Opened: 11-25-2008 Date Received: 11-25-2008
Date Expires(1): 12-01-2009 (None)
Date Expires(2): 12-01-2009 (None)
(METALS)-Inventory ID: 803

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1,000.0	1,000.0

STD1198-09, 1000 mg/L Sn

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SN02016 Vendor's Expiration Date: 03-01-2010
Solvent: 1% HNO3
Date Prep./Opened: 03-02-2009 Date Received: 03-02-2009
Date Expires(1): 03-01-2010 (None)
Date Expires(2): 03-01-2010 (None)
(METALS)-Inventory ID: 833

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

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026 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

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

STD2483-09, 1000 Zn (Inorganic Ventures)

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: C2-ZN02051 Vendor's Expiration Date: 05-01-2010
Solvent: 2% HNO3
Date Prep./Opened: 04-28-2009 Date Received: 04-28-2009
Date Expires(1): 05-01-2010 (None)
Date Expires(2): 05-01-2010 (None)
(METALS)-Inventory ID: 856

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	1,000.0	1,000.0

STD5446-09, ICP-MS 1ppm Sn/Zn

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 100.00
Date Prep./Opened: 09-10-2009
Date Expires(1): 03-01-2010 (1 Year)

Parent Std No.: STD1198-09, 1000 mg/L Sn Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	1.0000

Parent Std No.: STD2483-09, 1000 Zn (Inorganic Ventures) Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	1,000.0	1.0000

STD5512-09, ICP-MS (024) INT STD BRC

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 250.00
Date Prep./Opened: 09-14-2009
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ho	1,000.0	1,000.0

STD6045-09, ICP-MS BLANK — Analyst: DIAZL

Solvent: Water — Volume (ml): 1,000.0
Date Prep./Opened: 10-06-2009
Date Expires(1): 11-06-2009 (1 Month)
Date Expires(2): 11-06-2009 (1 Month)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD6044-09, NITRIC ACID — Aliquot Amount (ml): 50.000

Component	Initial Conc (%)	Final Conc (%)
HNO3	100.00	5.0000

STD6051-09, ICP-MS ICSA — Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 — Volume (ml): 50.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 11-06-2009 (1 Month)
Date Expires(2): 08-01-2010 (None)
pipettes: Met 8

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

STD6055-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 50.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)
pipettes: Met 21 and Met 8

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

STD6056-09, ICP-MS HIGH CAL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 100.00
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.1000
As	20.000	0.1000
Ba	20.000	0.1000
Be	20.000	0.1000
Cd	20.000	0.1000
Co	20.000	0.1000
Cr	20.000	0.1000
Cu	20.000	0.1000
Mn	20.000	0.1000
Ni	20.000	0.1000
Pb	20.000	0.1000
Se	20.000	0.1000
Th	20.000	0.1000
Tl	20.000	0.1000
U	20.000	0.1000
V	20.000	0.1000
Zn	20.000	0.1000

Parent Std No.: STD3110-09, ICP-MS CALSTD 2
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	0.1000
Sb	20.000	0.1000
Sn	20.000	0.1000

Parent Std No.: STD3111-09, ICP-MS CALSTD 3
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)

Al	2,000.0	10.000
Ca	2,000.0	10.000
Fe	2,000.0	10.000
K	2,000.0	10.000
Mg	2,000.0	10.000
Na	2,000.0	10.000

STD6057-09, ICP-MS HIGH CCV STD Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 100.00
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1 Aliquot Amount (ml): 0.2500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.0500
As	20.000	0.0500
Ba	20.000	0.0500
Be	20.000	0.0500
Cd	20.000	0.0500
Co	20.000	0.0500
Cr	20.000	0.0500
Cu	20.000	0.0500
Mn	20.000	0.0500
Ni	20.000	0.0500
Pb	20.000	0.0500
Se	20.000	0.0500
Th	20.000	0.0500
Tl	20.000	0.0500
U	20.000	0.0500
V	20.000	0.0500
Zn	20.000	0.0500

Parent Std No.: STD3110-09, ICP-MS CALSTD 2 Aliquot Amount (ml): 0.2500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	0.0500
Sb	20.000	0.0500
Sn	20.000	0.0500

Parent Std No.: STD3111-09, ICP-MS CALSTD 3 Aliquot Amount (ml): 0.2500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	5.0000
Ca	2,000.0	5.0000
Fe	2,000.0	5.0000
K	2,000.0	5.0000
Mg	2,000.0	5.0000
Na	2,000.0	5.0000

STD6058-09, ICP-MS HIGH RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD5446-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

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

Parent Std No.: STD6056-09, ICP-MS HIGH CAL STD Aliquot Amount (ml): 0.1000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	0.1000	0.0010
As	0.1000	0.0010
Ba	0.1000	0.0010
Be	0.1000	0.0010
Cd	0.1000	0.0010
Co	0.1000	0.0010
Cr	0.1000	0.0010
Cu	0.1000	0.0010
Mn	0.1000	0.0010
Ni	0.1000	0.0010
Pb	0.1000	0.0010
Se	0.1000	0.0010
Th	0.1000	0.0010
Tl	0.1000	0.0010
U	0.1000	0.0010
V	0.1000	0.0010
Zn	0.1000	0.0010
Mo	0.1000	0.0010
Sb	0.1000	0.0010
Sn	0.1000	0.0010
Al	10.000	0.1000
Ca	10.000	0.1000
Fe	10.000	0.1000
K	10.000	0.1000
Mg	10.000	0.1000
Na	10.000	0.1000

STD6059-09, ICP-MS HIGH AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD6058-09, ICP-MS HIGH RL STD

Aliquot Amount (ml): 2.0000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	0.0090	0.0018
Sn	0.0090	0.0018
Ag	0.0010	0.0002
As	0.0010	0.0002
Ba	0.0010	0.0002
Be	0.0010	0.0002
Cd	0.0010	0.0002
Co	0.0010	0.0002
Cr	0.0010	0.0002
Cu	0.0010	0.0002
Mn	0.0010	0.0002
Ni	0.0010	0.0002
Pb	0.0010	0.0002
Se	0.0010	0.0002
Th	0.0010	0.0002
Tl	0.0010	0.0002
U	0.0010	0.0002
V	0.0010	0.0002
Zn	0.0010	0.0002
Mo	0.0010	0.0002
Sb	0.0010	0.0002
Sn	0.0010	0.0002
Al	0.1000	0.0200
Ca	0.1000	0.0200
Fe	0.1000	0.0200
K	0.1000	0.0200
Mg	0.1000	0.0200
Na	0.1000	0.0200

STD6060-09, ICP-MS HIGH ICSAB

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024

Volume (ml): 10.000

Date Prep./Opened: 10-06-2009

Date Expires(1): 10-07-2009 (1 Day)

Date Expires(2): 08-01-2010 (None)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1

Aliquot Amount (ml): 0.0500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.1000
As	20.000	0.1000
Ba	20.000	0.1000
Be	20.000	0.1000
Cd	20.000	0.1000
Co	20.000	0.1000
Cr	20.000	0.1000
Cu	20.000	0.1000

Mn	20.000	0.1000
Ni	20.000	0.1000
Pb	20.000	0.1000
Se	20.000	0.1000
Th	20.000	0.1000
Tl	20.000	0.1000
U	20.000	0.1000
V	20.000	0.1000
Zn	20.000	0.1000

Parent Std No.: STD3110-09, ICP-MS CALSTD 2 Aliquot Amount (ml): 0.0500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	0.1000
Sb	20.000	0.1000
Sn	20.000	0.1000

Parent Std No.: STD3111-09, ICP-MS CALSTD 3 Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	100.00
Ca	2,000.0	100.00
Fe	2,000.0	100.00
K	2,000.0	100.00
Mg	2,000.0	100.00
Na	2,000.0	100.00

Parent Std No.: STD3112-09, ICP-MS BRC CALSTD 1 Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Nb	40.000	2.0000
Pd	20.000	1.0000
Pt	20.000	1.0000
W	20.000	1.0000

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

Component	Initial Conc (ug/ml)	Final Conc (mg/L)
Mo	20.000	2.0000
Na	1,000.0	100.00
P	1,000.0	100.00
S	1,000.0	100.00
Ti	20.000	2.0000
Al	1,000.0	100.00
C	2,000.0	200.00
Ca	1,000.0	100.00
Cl	10,000	1,000.0
Fe	1,000.0	100.00
K	1,000.0	100.00
Mg	1,000.0	100.00

STD6061-09, ICP-MS HIGH LR STD1

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	1.0000
As	20.000	1.0000
Ba	20.000	1.0000
Be	20.000	1.0000
Cd	20.000	1.0000
Co	20.000	1.0000
Cr	20.000	1.0000
Cu	20.000	1.0000
Mn	20.000	1.0000
Ni	20.000	1.0000
Pb	20.000	1.0000
Se	20.000	1.0000
Th	20.000	1.0000
Tl	20.000	1.0000
U	20.000	1.0000
V	20.000	1.0000
Zn	20.000	1.0000

Parent Std No.: STD3110-09, ICP-MS CALSTD 2
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	1.0000
Sb	20.000	1.0000
Sn	20.000	1.0000

STD6062-09, ICP-MS HIGH LR STD2

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3111-09, ICP-MS CALSTD 3
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	100.00
Ca	2,000.0	100.00
Fe	2,000.0	100.00
K	2,000.0	100.00
Mg	2,000.0	100.00
Na	2,000.0	100.00

Parent Std No.: STD3112-09, ICP-MS BRC CALSTD 1 Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Nb	40.000	2.0000
Pd	20.000	1.0000
Pt	20.000	1.0000
W	20.000	1.0000

STD6063-09, ICP-MS HIGH ICV STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 50.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)
Date Expires(2): 04-21-2010 (None)

Parent Std No.: STD3113-09, ICP-MS TA ICV A Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
As	20.000	0.0400
Ba	20.000	0.0400
Be	20.000	0.0400
Cd	20.000	0.0400
Co	20.000	0.0400
Cr	20.000	0.0400
Cu	20.000	0.0400
Mn	20.000	0.0400
Ni	20.000	0.0400
Pb	20.000	0.0400
Se	20.000	0.0400
Th	20.000	0.0400
Tl	20.000	0.0400
U	20.000	0.0400
V	20.000	0.0400
Zn	20.000	0.0400

Parent Std No.: STD3114-09, ICP-MS TA ICV B Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.0400
Mo	20.000	0.0400
Sb	20.000	0.0400
Sn	20.000	0.0400

Parent Std No.: STD3115-09, ICP-MS TA ICV Alt Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	4.0000
Ca	2,000.0	4.0000
Fe	2,000.0	4.0000
K	2,000.0	4.0000

Mg	2,000.0	4.0000
Na	2,000.0	4.0000

Parent Std No.: STD3116-09, ICP-MS TA ICV BRC — Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Nb	40.000	0.0800
Pd	20.000	0.0400
Pt	20.000	0.0400
W	20.000	0.0400

STD6064-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 100.00

Date Prep./Opened: 10-06-2009

Date Expires(1): 10-07-2009 (1 Day)

Date Expires(2): 05-01-2010 (None)

pipettes: Met 20

Parent Std No.: STD3106-09, ICP-MS LLCCV 1 — Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	0.5000	5.0000
Al	3.0000	30.000
As	0.5000	5.0000
Ba	0.1000	1.0000
Be	0.1000	1.0000
Ca	5.0000	50.000
Cd	0.1000	1.0000
Co	0.1000	1.0000
Cr	0.2000	2.0000
Cu	0.2000	2.0000
Fe	5.0000	50.000
K	10.000	100.00
Mg	5.0000	50.000
Mn	0.1000	1.0000
Na	5.0000	50.000
Ni	0.2000	2.0000
Pb	0.1000	1.0000
Se	0.5000	5.0000
Th	0.2000	2.0000
Tl	0.1000	1.0000
U	0.1000	1.0000
V	0.5000	5.0000
Zn	1.0000	10.000

Parent Std No.: STD3107-09, ICP-MS LLCCV 2 — Aliquot Amount (ml): 1.0000

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	0.2000	2.0000
Sb	0.2000	2.0000

Sn	1.0000	10.000

Parent Std No.: STD3108-09, ICP-MS BRC LLCCV 1 Aliquot Amount (ml): 1.0000

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

File
AG100609

Reviewed By: LRD 10/06/2009

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst: TEL**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
3	Cal Blank				1.0	10/06/09 17:32		☐
4	100 ppb				1.0	10/06/09 17:35		☐
5	ICV				1.0	10/06/09 17:38		☐
6	RLIV				1.0	10/06/09 17:41	Alt RL Al, Fe, W. RT 10/7/09	☐
7	ICB				1.0	10/06/09 17:44		☐
8	RL STD				1.0	10/06/09 17:47		☐
9	AFCEE RL				1.0	10/06/09 17:49		☐
10	ALTSe				1.0	10/06/09 17:52		☐
11	ICSA				1.0	10/06/09 17:55		☐
12	ICSAB				1.0	10/06/09 17:58		☐
13	RINSE				1.0	10/06/09 18:01		☐
14	LR1				1.0	10/06/09 18:04	-All but Al, Fe, W. RT 10/7/09	☐
15	RINSE				1.0	10/06/09 18:07		☐
16	LR2				1.0	10/06/09 18:10	-Al, Fe, W only. RT 10/7/09	☐
17	RINSE				1.0	10/06/09 18:13		☐
18	CCV				1.0	10/06/09 18:16		☐
19	CCB				1.0	10/06/09 18:18		☐
20	RLCV				1.0	10/06/09 18:21		☐
21	~~IDL 1~~				~~1.0~~	~~10/06/09 18:24~~		☐
22	IDL 2				1.0	10/06/09 18:27		☐
23	IDL 3				1.0	10/06/09 18:30		☐
24	~~Cal Blank~~				~~1.0~~	~~10/06/09 18:33~~	RT 10/7/09 Did not use.	☐
25	Cal Blank				1.0	10/06/09 18:36		☐
26	100 ppb				1.0	10/06/09 18:39		☐
27	CCV				1.0	10/06/09 18:42		☐
28	CCB				1.0	10/06/09 18:45		☐
29	RLCV				1.0	10/06/09 18:48		☐
30	~~IDL 1~~				~~1.0~~	~~10/06/09 18:50~~		☐
31	IDL 2				1.0	10/06/09 18:53		☐
32	IDL 3				1.0	10/06/09 18:56		☐
33	IDL 4				1.0	10/06/09 18:59		☐
34	IDL 5				1.0	10/06/09 19:02		☐
35	IDL 6				1.0	10/06/09 19:05		☐
36	~~IDL 7~~				~~1.0~~	~~10/06/09 19:08~~	RT 10/7/09 did not use.	☐
37	CCV				1.0	10/06/09 19:11		☐
38	CCB				1.0	10/06/09 19:14		☐
39	RLCV				1.0	10/06/09 19:17		☐
40	LLJ4J	F9I260143-1	9271316	MS	1.0	10/06/09 19:20		☐
41	CCV				1.0	10/06/09 19:23		☐
42	CCB				1.0	10/06/09 19:26		☐
43	RLCV				1.0	10/06/09 19:28		☐
44	LLAPGF 2X	D9I230165-5	9267352	MD	2.0	10/06/09 19:31		☐
45	LLAPJF 2X	D9I230165-6	9267352	MD	2.0	10/06/09 19:34		☐
46	LLAPJP10F	D9I230165	9267352		10.0	10/06/09 19:37		☐
47	LLAPJZF	D9I230165-6	9267352		1.0	10/06/09 19:40		☐
48	LLAPJSF 2X	D9I230165-6	9267352	MD	2.0	10/06/09 19:43		☐

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	LLAPJDF 2X	D9I230165-6	9267352	MD	2.0	10/06/09 19:46		☐
50	CCV				1.0	10/06/09 19:49		☐
51	CCB				1.0	10/06/09 19:52		☐
52	RLCV				1.0	10/06/09 19:55		☐
53	~~LLMPTBF~~	~~D9I290000~~	~~9272101~~	~~MD~~	~~1.0~~	~~10/06/09 19:58~~		☐
54	LLMPTCF	D9I290000	9272101	MD	1.0	10/06/09 20:01		☐
55	LLD23F	D9I240174-1	9272101	MD	1.0	10/06/09 20:03		☐
56	LLD4VF	D9I240174-2	9272101	MD	1.0	10/06/09 20:06		☐
57	LLD4VP5F	D9I240174	9272101		5.0	10/06/09 20:09		☐
58	LLD4VZF	D9I240174-2	9272101		1.0	10/06/09 20:12		☐
59	LLD4VSF	D9I240174-2	9272101	MD	1.0	10/06/09 20:15		☐
60	LLD4VDF	D9I240174-2	9272101	MD	1.0	10/06/09 20:18		☐
61	CCV				1.0	10/06/09 20:21		☐
62	CCB				1.0	10/06/09 20:24		☐
63	RLCV				1.0	10/06/09 20:27		☐
64	LLRNEB	D9J010000	9274113	MS	1.0	10/06/09 20:30		☐
65	LLRNEC	D9J010000	9274113	MS	1.0	10/06/09 20:33		☐
66	LLP3G 100X	F9I300170-1	9274113	MS	100	10/06/09 20:36		☐
67	LLP3P 40X	F9I300170-3	9274113	MS	40.0	10/06/09 20:39		☐
68	LLP3V 40X	F9I300170-5	9274113	MS	40.0	10/06/09 20:42		☐
69	~~Cal Blank~~				~~1.0~~	~~10/06/09 20:46~~	VF 10/7/09 Did not use.	☐
70	Cal Blank				1.0	10/06/09 20:48		☐
71	100 ppb				1.0	10/06/09 20:51		☐
72	CCV				1.0	10/06/09 20:54		☐
73	CCB				1.0	10/06/09 20:57		☐
74	RLCV				1.0	10/06/09 21:00		☐
75	LLMPTBF	D9I290000	9272101	MD	1.0	10/06/09 21:03		☐
76	LLMPTCF	D9I290000	9272101	MD	1.0	10/06/09 21:06		☐
77	LLD23F	D9I240174-1	9272101	MD	1.0	10/06/09 21:09		☐
78	LLD4VF	D9I240174-2	9272101	MD	1.0	10/06/09 21:12		☐
79	LLD4VP5F	D9I240174	9272101		5.0	10/06/09 21:15		☐
80	LLD4VZF	D9I240174-2	9272101		1.0	10/06/09 21:18		☐
81	LLD4VSF	D9I240174-2	9272101	MD	1.0	10/06/09 21:21		☐
82	LLD4VDF	D9I240174-2	9272101	MD	1.0	10/06/09 21:24		☐
83	CCV				1.0	10/06/09 21:26		☐
84	CCB				1.0	10/06/09 21:29		☐
85	RLCV				1.0	10/06/09 21:32		☐
86	LLRNEB	D9J010000	9274113	MS	1.0	10/06/09 21:35		☐
87	LLRNEC	D9J010000	9274113	MS	1.0	10/06/09 21:38		☐
88	LLP3G 100X	F9I300170-1	9274113	MS	100	10/06/09 21:41		☐
89	LLP3P 40X	F9I300170-3	9274113	MS	40.0	10/06/09 21:44		☐
90	LLP3V 40X	F9I300170-5	9274113	MS	40.0	10/06/09 21:47		☐
91	CCV				1.0	10/06/09 21:50		☐
92	CCB				1.0	10/06/09 21:53		☐
93	RLCV				1.0	10/06/09 21:56		☐
94	ICSA				1.0	10/06/09 21:59		☐

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
95	ICSAB				1.0	10/06/09 22:02		☐
96	WASH				1.0	10/06/09 22:05		☐
97	CCV				1.0	10/06/09 22:08		☐
98	CCB				1.0	10/06/09 22:11		☐
99	RLCV				1.0	10/06/09 22:14		☐
100	LLP30 5X	F9I300170-7	9274113	MS	5.0	10/06/09 22:17		☐
101	LLP38 100X	F9I300170-9	9274113	MS	100	10/06/09 22:20		☐
102	LLP4D 5X	F9I300170-11	9274113	MS	5.0	10/06/09 22:23		☐
103	LLP4DP25	F9I300170	9274113		25.0	10/06/09 22:26		☐
104	CCV				1.0	10/06/09 22:28		☐
105	CCB				1.0	10/06/09 22:31		☐
106	RLCV				1.0	10/06/09 22:34		☐
107	LLP4DZ	F9I300170-11	9274113		1.0	10/06/09 22:37		☐
108	LLP4DS 5X	F9I300170-11	9274113	MS	5.0	10/06/09 22:40		☐
109	LLP4DD 5X	F9I300170-11	9274113	MS	5.0	10/06/09 22:43		☐
110	LLP4L 5X	F9I300170-13	9274113	MS	5.0	10/06/09 22:46		☐
111	LLP52 5X	F9I300170-15	9274113	MS	5.0	10/06/09 22:49		☐
112	LLP57 2X	F9I300170-17	9274113	MS	2.0	10/06/09 22:52		☐
113	LLP6D 100X	F9I300170-19	9274113	MS	100	10/06/09 22:55		☐
114	LLP6J 2X	F9I300170-21	9274113	MS	2.0	10/06/09 22:58		☐
115	CCV				1.0	10/06/09 23:01		☐
116	CCB				1.0	10/06/09 23:04		☐
117	RLCV				1.0	10/06/09 23:07		☐
118	~~LL1HAB~~	~~D9J050000~~	~~9278227~~	~~MS~~	~~1.0~~	~~10/06/09 23:11~~		☐
119	LL1HAC	D9J050000	9278227	MS	1.0	10/06/09 23:14		☐
120	LLTHA	D9J010197-1	9278227	MS	1.0	10/06/09 23:17		☐
121	LLV5F 10X	D9J020142-1	9278227	MS	10.0	10/06/09 23:20		☐
122	LLV52 5X	D9J020142-2	9278227	MS	5.0	10/06/09 23:22		☐
123	LLV55 10X	D9J020142-3	9278227	MS	10.0	10/06/09 23:25		☐
124	CCV				1.0	10/06/09 23:28		☐
125	CCB				1.0	10/06/09 23:31		☐
126	RLCV				1.0	10/06/09 23:34		☐
127	LLV55P50	D9J020142	9278227		50.0	10/06/09 23:37		☐
128	LLV55Z	D9J020142-3	9278227		1.0	10/06/09 23:40		☐
129	LLV55S 10X	D9J020142-3	9278227	MS	10.0	10/06/09 23:43		☐
130	LLV55D 10X	D9J020142-3	9278227	MS	10.0	10/06/09 23:46		☐
131	LLV57	D9J020142-4	9278227	MS	1.0	10/06/09 23:49		☐
132	CCV				1.0	10/06/09 23:52		☐
133	CCB				1.0	10/06/09 23:55		☐
134	RLCV				1.0	10/06/09 23:58		☐
135	LL1G1B	D9J050000	9278222	04	1.0	10/07/09 00:01		☐
136	LL1G1C	D9J050000	9278222	04	1.0	10/07/09 00:04		☐
137	LLV71	D9J020155-1	9278222	04	1.0	10/07/09 00:07		☐
138	LLV8Q 2X	D9J020155-2	9278222	04	2.0	10/07/09 00:10		☐
139	LLV8W	D9J020155-3	9278222	04	1.0	10/07/09 00:13		☐
140	~~LLV8WP5~~	~~D9J020155~~	~~9278222~~		~~5.0~~	~~10/07/09 00:16~~	RF 10/7/09 Did not use.	☐

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
141	~~LLV8WZ~~	~~D9J020155-3~~	~~9278222~~		~~1.0~~	~~10/07/09 00:18~~		
142	LLV8WS	D9J020155-3	9278222	04	1.0	10/07/09 00:21		
143	CCV				1.0	10/07/09 00:24		
144	CCB				1.0	10/07/09 00:27		
145	RLCV				1.0	10/07/09 00:30		
146	LLV8WD	D9J020155-3	9278222	04	1.0	10/07/09 00:33		
147	LLV8X	D9J020155-4	9278222	04	1.0	10/07/09 00:36		
148	LLV80	D9J020155-5	9278222	04	1.0	10/07/09 00:39		
149	LLV81	D9J020155-6	9278222	04	1.0	10/07/09 00:42		
150	LLV82	D9J020155-7	9278222	04	1.0	10/07/09 00:45		
151	LLV84	D9J020155-8	9278222	04	1.0	10/07/09 00:48		
152	LLV86	D9J020155-9	9278222	04	1.0	10/07/09 00:51		
153	CCV				1.0	10/07/09 00:54		
154	CCB				1.0	10/07/09 00:57		
155	RLCV				1.0	10/07/09 01:00		
156	RINSE				1.0	10/07/09 01:03		
157	RINSE				1.0	10/07/09 01:06		
158	RINSE				1.0	10/07/09 01:09		
159	RINSE				1.0	10/07/09 01:11		
160	RINSE				1.0	10/07/09 01:14		
161	RINSE				1.0	10/07/09 01:17		
162	RINSE				1.0	10/07/09 01:20		
163	~~Cal Blank~~				~~1.0~~	~~10/07/09 01:23~~	KF 10/7/09 Did not use.	
164	Cal Blank				1.0	10/07/09 01:26		
165	100 ppb				1.0	10/07/09 01:29		
166	CCV				1.0	10/07/09 01:32		
167	CCB				1.0	10/07/09 01:35		
168	RLCV				1.0	10/07/09 01:38		
169	LLXQ4B	D9J020000	9275428	MS	1.0	10/07/09 01:41		
170	LLXQ4C	D9J020000	9275428	MS	1.0	10/07/09 01:44		
171	LLR0V 20X	F9J010134-1	9275428	MS	20.0	10/07/09 01:47		
172	LLR0VP100	F9J010134	9275428		100	10/07/09 01:50		
173	LLR0VZ	F9J010134-1	9275428		1.0	10/07/09 01:53	-Se, Cu only. KF 10/7/09	
174	LLR0VS 20X	F9J010134-1	9275428	MS	20.0	10/07/09 01:56		
175	LLR0VD 20X	F9J010134-1	9275428	MS	20.0	10/07/09 01:59		
176	CCV				1.0	10/07/09 02:02		
177	CCB				1.0	10/07/09 02:05		
178	RLCV				1.0	10/07/09 02:08		
179	LLR05 5X	F9J010134-3	9275428	MS	5.0	10/07/09 02:11		
180	LLR1N 5X	F9J010134-5	9275428	MS	5.0	10/07/09 02:14		
181	LLR16 5X	F9J010137-1	9275428	MS	5.0	10/07/09 02:17		
182	LLWNQ 10X	F9J020195-1	9275428	MS	10.0	10/07/09 02:20		
183	LLWPF 10X	F9J020195-3	9275428	MS	10.0	10/07/09 02:23		
184	LLWPT 10X	F9J020195-5	9275428	MS	10.0	10/07/09 02:25		
185	CCV				1.0	10/07/09 02:29		
186	CCB				1.0	10/07/09 02:31		

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
187	RLCV				1.0	10/07/09 02:34		
188	LL1TVBF	D9J050000	9278349	MD	1.0	10/07/09 02:37		
189	LL1TVCF	D9J050000	9278349	MD	1.0	10/07/09 02:40		
190	LLXVXF	D9J020307-2	9278349	MD	1.0	10/07/09 02:43		
191	LLXV3F	D9J020307-3	9278349	MD	1.0	10/07/09 02:46		
192	LLXV3P5F	D9J020307	9278349		5.0	10/07/09 02:49		
193	LLXV3ZF	D9J020307-3	9278349		1.0	10/07/09 02:52		
194	LLXV3SF	D9J020307-3	9278349	MD	1.0	10/07/09 02:55		
195	LLXV3DF	D9J020307-3	9278349	MD	1.0	10/07/09 02:58		
196	LLXWQF	D9J020307-15	9278349	MD	1.0	10/07/09 03:01		
197	LLXWRF	D9J020307-16	9278349	MD	1.0	10/07/09 03:04		
198	CCV				1.0	10/07/09 03:07		
199	CCB				1.0	10/07/09 03:10		
200	RLCV				1.0	10/07/09 03:13		
201	~~RINSE~~				~~1.0~~	~~10/07/09 03:16~~		
202	RINSE				1.0	10/07/09 03:18		
203	RINSE				1.0	10/07/09 03:21		
204	RINSE				1.0	10/07/09 03:24		
205	RINSE				1.0	10/07/09 03:27		
206	RINSE				1.0	10/07/09 03:30		
207	RINSE				1.0	10/07/09 03:33		
208	~~Cal Blank~~				~~1.0~~	~~10/07/09 03:36~~	NF 10/7/09	
209	Cal Blank				1.0	10/07/09 03:39		
210	100 ppb				1.0	10/07/09 03:42		
211	CCV				1.0	10/07/09 03:45		
212	CCB				1.0	10/07/09 03:48		
213	RLCV				1.0	10/07/09 03:51		
214	LL1QXB	D9J050000	9278310	MS	1.0	10/07/09 03:54		
215	LL1QXC	D9J050000	9278310	MS	1.0	10/07/09 03:57		
216	LLM9W	D9I290162-2	9278310	MS	1.0	10/07/09 04:00		
217	LLQPH	D9I300226-1	9278310	MS	1.0	10/07/09 04:03		
218	LLQPHP5	D9I300226	9278310		5.0	10/07/09 04:06		
219	LLQPHZ	D9I300226-1	9278310		1.0	10/07/09 04:09		
220	LLQPHS	D9I300226-1	9278310	MS	1.0	10/07/09 04:11		
221	LLQPHD	D9I300226-1	9278310	MS	1.0	10/07/09 04:14		
222	LLQQX	D9I300226-8	9278310	MS	1.0	10/07/09 04:17		
223	CCV				1.0	10/07/09 04:20		
224	CCB				1.0	10/07/09 04:23		
225	RLCV				1.0	10/07/09 04:26		
226	LL1J7B	D9J050000	9278251	MS	1.0	10/07/09 04:29		
227	LL1J7C	D9J050000	9278251	MS	1.0	10/07/09 04:32		
228	LL0FG	D9J030137-1	9278251	MS	1.0	10/07/09 04:35		
229	LL0FGP5	D9J030137	9278251		5.0	10/07/09 04:38		
230	LL0FGZ	D9J030137-1	9278251		1.0	10/07/09 04:41		
231	LL0FGS	D9J030137-1	9278251	MS	1.0	10/07/09 04:44		
232	LL0FGD	D9J030137-1	9278251	MS	1.0	10/07/09 04:47		

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
233	LL0FJ	D9J030138-1	9278251	MS	1.0	10/07/09 04:50		☐
234	LL0FK	D9J030138-2	9278251	MS	1.0	10/07/09 04:53		☐
235	CCV				1.0	10/07/09 04:56		☐
236	CCB				1.0	10/07/09 04:59		☐
237	RLCV				1.0	10/07/09 05:02		☐
238	LL1WMB	D9J050000	9278373	04	1.0	10/07/09 05:05		☐
239	LL1WMC	D9J050000	9278373	04	1.0	10/07/09 05:08		☐
240	LLR1J	D9J010136-1	9278373	04	1.0	10/07/09 05:11		☐
241	LLR1L	D9J010136-2	9278373	04	1.0	10/07/09 05:14		☐
242	LLR1M	D9J010136-3	9278373	04	1.0	10/07/09 05:17		☐
243	LLR1P	D9J010136-4	9278373	04	1.0	10/07/09 05:20		☐
244	LLR1PP5	D9J010136	9278373		5.0	10/07/09 05:23		☐
245	LLR1PZ	D9J010136-4	9278373		1.0	10/07/09 05:26		☐
246	CCV				1.0	10/07/09 05:28		☐
247	CCB				1.0	10/07/09 05:31		☐
248	RLCV				1.0	10/07/09 05:34		☐
249	LLR1PS	D9J010136-4	9278373	04	1.0	10/07/09 05:37		☐
250	LLR1PD	D9J010136-4	9278373	04	1.0	10/07/09 05:40		☐
251	LLR1Q	D9J010136-5	9278373	04	1.0	10/07/09 05:43		☐
252	LLR1R	D9J010136-6	9278373	04	1.0	10/07/09 05:46		☐
253	LLR1T	D9J010136-7	9278373	04	1.0	10/07/09 05:49		☐
254	LLTF1	D9J010188-1	9278373	04	1.0	10/07/09 05:52		☐
255	LLV66	D9J020147-2	9278373	04	1.0	10/07/09 05:55		☐
256	LLX9K	D9J030121-4	9278373	04	1.0	10/07/09 05:58		☐
257	CCV				1.0	10/07/09 06:01		☐
258	CCB				1.0	10/07/09 06:04		☐
259	RLCV				1.0	10/07/09 06:07		☐
260	~~RINSE~~				1.0	~~10/07/09 06:10~~		☐
261	RINSE				1.0	10/07/09 06:13		☐
262	RINSE				1.0	10/07/09 06:16		☐
263	RINSE				1.0	10/07/09 06:19		☐
264	RINSE				1.0	10/07/09 06:21		☐
265	RINSE				1.0	10/07/09 06:24		☐
266	RINSE				1.0	10/07/09 06:27		☐
267	~~Cal Blank~~				1.0	~~10/07/09 06:30~~	VF 10/7/09	☐
268	Cal Blank				1.0	10/07/09 06:33		☐
269	100 ppb				1.0	10/07/09 06:36		☐
270	CCV				1.0	10/07/09 06:39		☐
271	CCB				1.0	10/07/09 06:42		☐
272	RLCV				1.0	10/07/09 06:45		☐
273	LL2CGBF	D9J060000	9279104	MD	1.0	10/07/09 06:48		☐
274	LL2CGCF	D9J060000	9279104	MD	1.0	10/07/09 06:51		☐
275	LLV66F	D9J020147-2	9279104	MD	1.0	10/07/09 06:54		☐
276	LLV66P5F	D9J020147	9279104		5.0	10/07/09 06:57		☐
277	LLV66ZF	D9J020147-2	9279104		1.0	10/07/09 07:00		☐
278	LLV66SF	D9J020147-2	9279104	MD	1.0	10/07/09 07:03		☐

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RUN SUMMARY

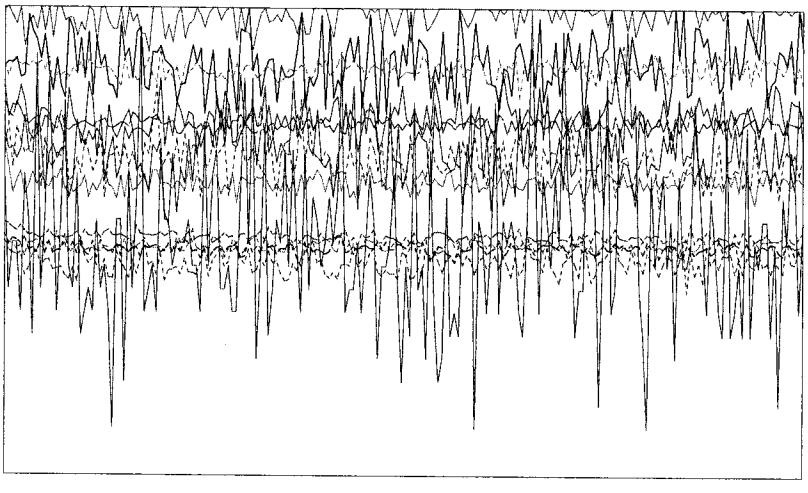
Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
279	LLV66DF	D9J020147-2	9279104	MD	1.0	10/07/09 07:06		☐
280	LLX9KF	D9J030121-4	9279104	MD	1.0	10/07/09 07:09		☐
281	CCV				1.0	10/07/09 07:12		☐
282	CCB				1.0	10/07/09 07:15		☐
283	RLCV				1.0	10/07/09 07:18		☐
284	LL1TLB	D9J050000	9278342	MS	1.0	10/07/09 07:21		☐
285	LL1TLC	D9J050000	9278342	MS	1.0	10/07/09 07:23		☐
286	LLXVM	D9J020307-1	9278342	MS	1.0	10/07/09 07:26		☐
287	LLXVX	D9J020307-2	9278342	MS	1.0	10/07/09 07:29		☐
288	LLXV3	D9J020307-3	9278342	MS	1.0	10/07/09 07:32		☐
289	LLXV7	D9J020307-4	9278342	MS	1.0	10/07/09 07:35		☐
290	LLXWC	D9J020307-5	9278342	MS	1.0	10/07/09 07:38		☐
291	LLXWD	D9J020307-6	9278342	MS	1.0	10/07/09 07:41		☐
292	LLXWG	D9J020307-8	9278342	MS	1.0	10/07/09 07:44		☐
293	CCV				1.0	10/07/09 07:47		☐
294	CCB				1.0	10/07/09 07:50		☐
295	RLCV				1.0	10/07/09 07:53		☐
296	LLXWJ	D9J020307-9	9278342	MS	1.0	10/07/09 07:56		☐
297	LLXWK	D9J020307-10	9278342	MS	1.0	10/07/09 07:59		☐
298	LLXWL	D9J020307-11	9278342	MS	1.0	10/07/09 08:02		☐
299	LLXWM	D9J020307-12	9278342	MS	1.0	10/07/09 08:05		☐
300	LLXWN	D9J020307-13	9278342	MS	1.0	10/07/09 08:08		☐
301	LLXWP	D9J020307-14	9278342	MS	1.0	10/07/09 08:11		☐
302	LLXWQ	D9J020307-15	9278342	MS	1.0	10/07/09 08:14		☐
303	LLXWR	D9J020307-16	9278342	MS	1.0	10/07/09 08:17		☐
304	CCV				1.0	10/07/09 08:20		☐
305	CCB				1.0	10/07/09 08:23		☐
306	RLCV				1.0	10/07/09 08:26		☐
307	LLXWV	D9J020307-17	9278342	MS	1.0	10/07/09 08:29		☐
308	LLXWW	D9J020307-18	9278342	MS	1.0	10/07/09 08:32		☐
309	LLXWWP5	D9J020307	9278342		5.0	10/07/09 08:34		☐
310	LLXWWZ	D9J020307-18	9278342		1.0	10/07/09 08:37		☐
311	LLXWWS	D9J020307-18	9278342	MS	1.0	10/07/09 08:40		☐
312	LLXWWD	D9J020307-18	9278342	MS	1.0	10/07/09 08:43		☐
313	LLXXA	D9J020307-19	9278342	MS	1.0	10/07/09 08:46		☐
314	LLXXF	D9J020307-20	9278342	MS	1.0	10/07/09 08:49		☐
315	CCV				1.0	10/07/09 08:52		☐
316	CCB				1.0	10/07/09 08:55		☐
317	RLCV				1.0	10/07/09 08:58		☐
318	~~RINSE~~				~~1.0~~	~~10/07/09 09:01~~		☐
319	~~RINSE~~				~~1.0~~	~~10/07/09 09:04~~	VL 10/7/09	☐

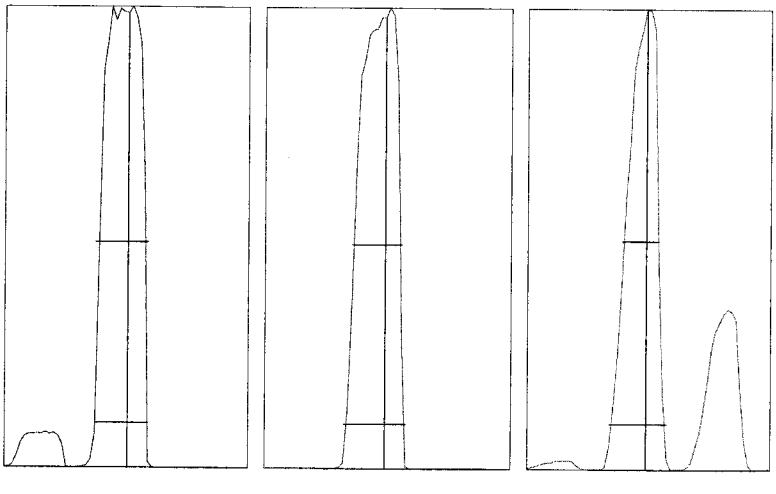
Tune Report

Tune File : NORM.U
Comment :



Integration Time:	0.1000 sec	
Sampling Period:	1.5300 sec	
n:	200	
Oxide:	156/140	1.285%
Doubly Charged:	70/140	0.975%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1538.0	1533.7	4.40	0.70
7	20,000	19152.0	19974.3	4.19	0.90
59	50,000	31704.0	31696.2	3.08	1.50
63	200	141.0	141.2	9.05	1.50
70	500	456.0	441.8	6.88	1.20
75	20	11.0	10.1	36.53	1.10
78	1,000	462.0	458.0	5.23	1.20
89	100,000	48065.0	49473.3	2.42	1.80
115	50,000	42014.0	43472.4	2.11	2.10
118	500	347.0	339.8	5.87	2.30
137	10,000	5037.0	4900.4	2.47	2.60
205	50,000	26409.0	25777.8	1.85	4.00
238	50,000	38491.0	37778.7	1.77	4.50
156/140	2	1.325%	1.315%	6.51	
70/140	2	1.035%	1.019%	7.46	



m/z:	7	89	205
Height:	20,170	49,698	26,584
Axis:	7.05	89.00	205.00
W-50%:	0.65	0.60	0.45
W-10%:	0.6500	0.7500	0.700

Integration Time:	0.1000 sec
Acquisition Time:	22.7600 sec

Y axis : Linear

Tune Report

Tune File : NORM.U
Comment :

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	: 1600	W	Extract 1	: 0	V	AMU Gain	: 133	
RF Matching	: 1.7	V	Extract 2	: -170	V	AMU Offset	: 124	
Smpl Depth	: 8	mm	Omega Bias-ce	: -30	V	Axis Gain	: 1.0006	
Torch-H	: -0.8	mm	Omega Lens-ce	: 1.4	V	Axis Offset	: -0.03	
Torch-V	: -0.3	mm	Cell Entrance	: -30	V	QP Bias	: -3	V
Carrier Gas	: 0.83	L/min	QP Focus	: 7	V			
Makeup Gas	: 0.23	L/min	Cell Exit	: -30	V	===Detector Parameters===		
Optional Gas	: ---	%				Discriminator	: 8	mV
Nebulizer Pump	: 0.1	rps	===Octopole Parameters===			Analog HV	: 1770	V
Sample Pump	: ---	rps	OctP RF	: 180	V	Pulse HV	: 1480	V
S/C Temp	: 2	degC	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:Oct 6 2009 05:06 pm

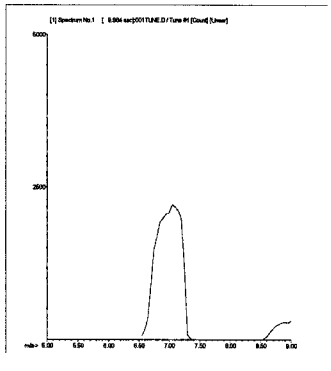
Mass[amu]	Element	P/A Factor
6	Li	0.053222
7	(Li)	Sensitivity too low
9	Be	0.059399
23	Na	0.066047
24	Mg	0.067927
27	Al	0.069443
39	K	0.069174
43	Ca	Sensitivity too low
45	Sc	0.069829
51	V	0.071015
52	Cr	0.072606
53	(Cr)	Sensitivity too low
55	Mn	0.073588
57	Fe	Sensitivity too low
59	Co	0.075693
60	Ni	0.076632
63	Cu	0.077698
66	Zn	0.077415
72	Ge	0.077157
75	As	0.076681
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
93	Nb	Sensitivity too low
95	Mo	0.078214
98	(Mo)	0.077580
99	(Mo)	0.078379
105	Pd	0.080002
106	(Cd)	0.079790
107	Ag	Sensitivity too low
108	(Cd)	0.080500
111	Cd	0.080485
115	In	0.079331
118	Sn	0.079722
121	Sb	0.079712
137	Ba	0.080483
165	Ho	Sensitivity too low
182	W	Sensitivity too low
195	Pt	Sensitivity too low
205	Tl	0.084960
206	(Pb)	0.083816
207	(Pb)	0.084039
208	Pb	0.082861
232	Th	0.082539
238	U	0.082684

===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1770 V
Pulse HV: 1480 V

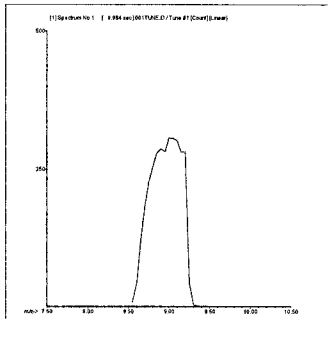
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\001TUNE.D
Date Acquired: Oct 6 2009 05:26 pm
Acq. Method: tun_isis.M
Operator: TEL
Sample Name: 200.8 TUNE
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	22475	22546	22281	22331	22556	22661	0.72	5.00	
9 Be	3208	3163	3185	3193	3226	3274	1.35	5.00	
24 Mg	19196	19341	18833	19364	19211	19232	1.11	5.00	
59 Co	93079	93452	92838	94803	91798	92504	1.22	5.00	
115 In	1511022	1504949	1520840	1509967	1510439	1508914	0.39	5.00	
208 Pb	85672	86274	84872	86032	85730	85452	0.64	5.00	
238 U	171308	174367	172886	168992	169448	170844	1.33	5.00	

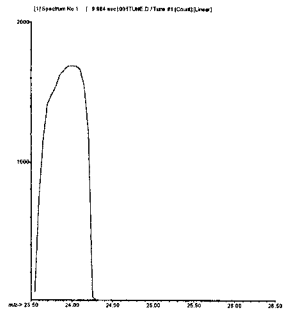


7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



9 Be
Mass Calib.
Actual: 9.00
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

C:\ICPCHEM\1\DATA\AG100609.B\001TUNE.D



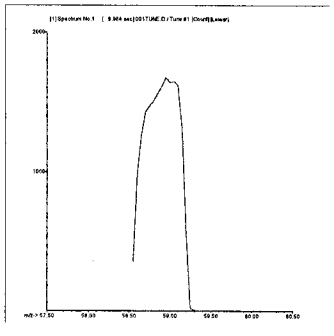
24 Mg

Mass Calib.

Actual:	24.00		
Required:	23.90	-	24.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



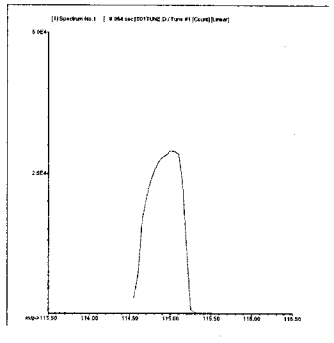
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



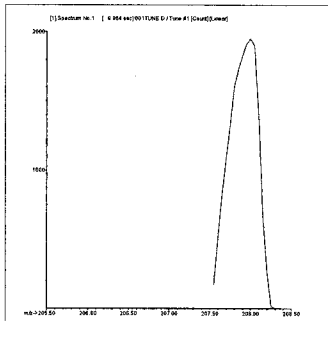
115 In

Mass Calib.

Actual:	115.00		
Required:	114.90	-	115.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



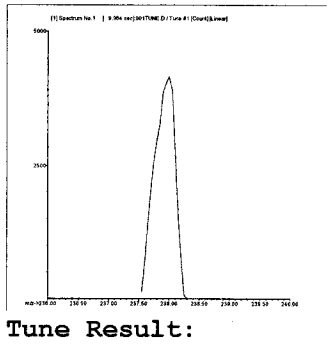
208 Pb

Mass Calib.

Actual:	207.95		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.55		
Required:	0.90		
Flag:			



238 U

Mass Calib.

Actual:	237.95		
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\AG100609.B\002CALB.D\002CALB.D#
Date Acquired: Oct 6 2009 05:29 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:30 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	352721	0.33
24	Mg	6	1	4091	3.88
27	Al	45	1	6718	3.62
39	K	45	1	339464	0.39
43	Ca	45	1	43	48.04
51	V	72	1	-25	699.43
52	Cr	72	1	3831	1.97
55	Mn	72	1	847	6.72
57	Fe	72	1	1220	9.01
59	Co	72	1	80	43.30
60	Ni	72	1	183	12.60
63	Cu	72	1	373	8.18
66	Zn	72	1	851	2.18
75	As	72	1	43	7.16
78	Se	72	1	630	5.72
93	Nb	115	1	2884	26.20
95	Mo	115	1	227	25.85
105	Pd	115	1	23	24.74
107	Ag	115	1	7	86.60
111	Cd	115	1	7	86.60
118	Sn	115	1	340	10.60
121	Sb	115	1	33	20.00
137	Ba	115	1	24	43.84
182	W	165	1	830	2.41
195	Pt	165	1	210	28.97
205	Tl	165	1	283	15.29
208	Pb	165	1	388	4.89
232	Th	165	1	320	8.27
238	U	165	1	144	8.74

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	432902	0.86
45	Sc	1	2003551	0.35
72	Ge	1	974140	0.33
115	In	1	2674722	0.58
165	Ho	1	4310831	0.30

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\AG100609.B\003CALB.D\003CALB.D#
Date Acquired: Oct 6 2009 05:32 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:30 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	348908	0.48
24	Mg	6	1	883	16.10
27	Al	45	1	52330	0.75
39	K	45	1	345707	1.08
43	Ca	45	1	23	89.21
51	V	72	1	356	37.38
52	Cr	72	1	4101	2.24
55	Mn	72	1	750	10.07
57	Fe	72	1	627	6.45
59	Co	72	1	103	22.35
60	Ni	72	1	140	35.71
63	Cu	72	1	433	20.94
66	Zn	72	1	751	6.70
75	As	72	1	55	12.85
78	Se	72	1	683	12.27
93	Nb	115	1	2420	22.50
95	Mo	115	1	87	13.32
105	Pd	115	1	10	100.00
107	Ag	115	1	27	57.28
111	Cd	115	1	6	34.64
118	Sn	115	1	280	28.57
121	Sb	115	1	62	29.51
137	Ba	115	1	39	4.95
182	W	165	1	707	7.79
195	Pt	165	1	213	35.80
205	Tl	165	1	179	17.31
208	Pb	165	1	357	4.07
232	Th	165	1	277	18.55
238	U	165	1	31	62.78

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	465255	1.29
45	Sc	1	2085166	1.86
72	Ge	1	990903	0.42
115	In	1	2708507	0.31
165	Ho	1	4305677	1.11

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\AG100609.B\004ICAL.D\004ICAL.D#
Date Acquired: Oct 6 2009 05:35 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:33 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	62833	1.83
23	Na	6	1	45248792	1.22
24	Mg	6	1	28431040	1.37
27	Al	45	1	25909150	2.13
39	K	45	1	44897300	1.46
43	Ca	45	1	113472	1.30
51	V	72	1	1214306	1.39
52	Cr	72	1	1203178	1.23
55	Mn	72	1	1370599	1.18
57	Fe	72	1	3120393	0.84
59	Co	72	1	1490822	1.03
60	Ni	72	1	329991	0.95
63	Cu	72	1	782134	0.78
66	Zn	72	1	182519	0.63
75	As	72	1	151145	1.16
78	Se	72	1	27264	1.64
93	Nb	115	1	3988561	1.74
95	Mo	115	1	408497	1.35
105	Pd	115	1	520277	1.38
107	Ag	115	1	1145398	1.00
111	Cd	115	1	235247	0.56
118	Sn	115	1	651257	0.62
121	Sb	115	1	765833	0.31
137	Ba	115	1	315265	0.79
182	W	165	1	1054146	0.58
195	Pt	165	1	689473	0.21
205	Tl	165	1	2294336	0.55
208	Pb	165	1	3117004	0.20
232	Th	165	1	3310166	0.55
238	U	165	1	3437403	1.40

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	442244	1.44	465255	95.1	30 - 120	
45	Sc	1	1970414	0.78	2085166	94.5	30 - 120	
72	Ge	1	945836	1.90	990903	95.5	30 - 120	
115	In	1	2569855	0.81	2708507	94.9	30 - 120	
165	Ho	1	4183884	0.74	4305677	97.2	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\AG100609.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\AG100609.B\005_ICV.D\005_ICV.D#
Date Acquired: Oct 6 2009 05:38 pm
Operator: TEL
Sample Name: ICV
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: ICV
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	39.77	ppb	2.64	40	99.4	90 - 110	
23 Na	6	1	4058.00	ppb	2.47	4000	101.5	90 - 110	
24 Mg	6	1	4082.00	ppb	2.58	4000	102.1	90 - 110	
27 Al	45	1	3987.00	ppb	2.18	4000	99.7	90 - 110	
39 K	45	1	3949.00	ppb	2.50	4000	98.7	90 - 110	
43 Ca	45	1	3973.00	ppb	0.62	4000	99.3	90 - 110	
51 V	72	1	39.38	ppb	2.42	40	98.5	90 - 110	
52 Cr	72	1	40.41	ppb	1.74	40	101.0	90 - 110	
55 Mn	72	1	41.36	ppb	1.59	40	103.4	90 - 110	
57 Fe	72	1	4252.00	ppb	3.14	4000	106.3	90 - 110	
59 Co	72	1	40.11	ppb	3.45	40	100.3	90 - 110	
60 Ni	72	1	40.64	ppb	3.99	40	101.6	90 - 110	
63 Cu	72	1	40.86	ppb	3.33	40	102.2	90 - 110	
66 Zn	72	1	40.43	ppb	2.27	40	101.1	90 - 110	
75 As	72	1	39.77	ppb	3.20	40	99.4	90 - 110	
78 Se	72	1	40.29	ppb	1.67	40	100.7	90 - 110	
93 Nb	115	1	73.05	ppb	2.15	80	91.3	90 - 110	
95 Mo	115	1	40.57	ppb	1.91	40	101.4	90 - 110	
105 Pd	115	1	40.77	ppb	1.77	40	101.9	90 - 110	
107 Ag	115	1	40.68	ppb	2.16	40	101.7	90 - 110	
111 Cd	115	1	39.99	ppb	1.58	40	100.0	90 - 110	
118 Sn	115	1	39.97	ppb	1.32	40	99.9	90 - 110	
121 Sb	115	1	39.84	ppb	1.31	40	99.6	90 - 110	
137 Ba	115	1	39.97	ppb	2.12	40	99.9	90 - 110	
182 W	165	1	39.51	ppb	2.13	40	98.8	90 - 110	
195 Pt	165	1	40.44	ppb	2.35	40	101.1	90 - 110	
205 Tl	165	1	41.18	ppb	1.33	40	103.0	90 - 110	
208 Pb	165	1	41.67	ppb	1.40	40	104.2	90 - 110	
232 Th	165	1	40.51	ppb	0.96	40	101.3	90 - 110	
238 U	165	1	40.66	ppb	1.60	40	101.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	464961	1.65	465255	99.9	30 - 120	
45 Sc	1	2074638	0.19	2085166	99.5	30 - 120	
72 Ge	1	969853	2.29	990903	97.9	30 - 120	
115 In	1	2636292	1.22	2708507	97.3	30 - 120	
165 Ho	1	4215716	0.83	4305677	97.9	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\AG100609.B\003CALB.D\003CALB.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\AG100609.B\006WASH.D\006WASH.D#
Date Acquired: Oct 6 2009 05:41 pm
Operator: TEL
Sample Name: RLIV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.998 ppb	7.39	1.30	
23 Na	6	1	47.570 ppb	3.41	65.00	
24 Mg	6	1	55.570 ppb	2.09	65.00	
27 Al	45	1	15.620 ppb	6.01	39.00	
39 K	45	1	106.700 ppb	1.57	130.00	
43 Ca	45	1	56.910 ppb	13.28	65.00	
51 V	72	1	5.175 ppb	0.40	6.50	
52 Cr	72	1	2.181 ppb	1.55	2.60	
55 Mn	72	1	1.096 ppb	3.59	1.30	
57 Fe	72	1	57.310 ppb	1.74	65.00	
59 Co	72	1	1.089 ppb	1.39	1.30	
60 Ni	72	1	2.214 ppb	2.85	2.60	
63 Cu	72	1	2.204 ppb	2.23	2.60	
66 Zn	72	1	10.560 ppb	0.59	13.00	
75 As	72	1	5.276 ppb	0.41	6.50	
78 Se	72	1	5.396 ppb	5.88	6.50	
93 Nb	115	1	52.490 ppb	1.11	52.00	
95 Mo	115	1	2.103 ppb	2.02	2.60	
105 Pd	115	1	0.904 ppb	7.13	1.30	
107 Ag	115	1	5.506 ppb	2.95	6.50	
111 Cd	115	1	1.040 ppb	1.08	1.30	
118 Sn	115	1	10.610 ppb	1.93	13.00	
121 Sb	115	1	2.249 ppb	2.24	2.60	
137 Ba	115	1	1.064 ppb	2.70	1.30	
182 W	165	1	5.156 ppb	1.35	6.50	
195 Pt	165	1	1.028 ppb	4.33	1.30	
205 Tl	165	1	1.194 ppb	0.49	1.30	
208 Pb	165	1	1.140 ppb	0.76	1.30	
232 Th	165	1	2.595 ppb	6.11	2.60	
238 U	165	1	1.151 ppb	0.82	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	479706	0.93	465255	103.1	30 - 120	
45 Sc	1	2114855	1.06	2085166	101.4	30 - 120	
72 Ge	1	992825	1.33	990903	100.2	30 - 120	
115 In	1	2718378	1.56	2708507	100.4	30 - 120	
165 Ho	1	4262763	0.53	4305677	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\003CALB.D\003CALB.D#

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

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\007_ICB.D\007_ICB.D#
Date Acquired: Oct 6 2009 05:44 pm
Operator: TEL
Sample Name: ICB
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: ICB
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	0.00	ppb	0.00	1.00	
23 Na	6	1	-8.58	ppb	5.26	20.00	
24 Mg	6	1	0.12	ppb	42.78	20.00	
27 Al	45	1	-16.71	ppb	0.39	20.00	
39 K	45	1	-0.21	ppb	674.82	20.00	
43 Ca	45	1	-0.05	ppb	1068.60	20.00	
51 V	72	1	-0.03	ppb	70.60	1.00	
52 Cr	72	1	-0.01	ppb	199.80	1.00	
55 Mn	72	1	0.00	ppb	157.69	1.00	
57 Fe	72	1	0.52	ppb	60.50	20.00	
59 Co	72	1	0.00	ppb	58.29	1.00	
60 Ni	72	1	-0.01	ppb	158.48	1.00	
63 Cu	72	1	0.00	ppb	2887.40	1.00	
66 Zn	72	1	0.91	ppb	4.57	10.00	
75 As	72	1	0.01	ppb	91.99	1.00	
78 Se	72	1	0.30	ppb	92.05	1.00	
93 Nb	115	1	2.55	ppb	15.26	2.00	Fail
95 Mo	115	1	0.01	ppb	81.77	1.00	
105 Pd	115	1	0.01	ppb	25.49	1.00	
107 Ag	115	1	0.00	ppb	54.65	1.00	
111 Cd	115	1	0.00	ppb	85.11	1.00	
118 Sn	115	1	0.06	ppb	28.98	10.00	
121 Sb	115	1	0.08	ppb	3.04	1.00	
137 Ba	115	1	0.00	ppb	754.67	1.00	
182 W	165	1	0.02	ppb	13.61	5.00	
195 Pt	165	1	0.00	ppb	348.14	1.00	
205 Tl	165	1	0.02	ppb	4.86	1.00	
208 Pb	165	1	0.00	ppb	90.15	1.00	
232 Th	165	1	0.02	ppb	7.90	2.00	
238 U	165	1	0.00	ppb	8.10	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	486591	1.12	465255	104.6	30 - 120	
45 Sc	1	2155545	1.31	2085166	103.4	30 - 120	
72 Ge	1	1000797	1.76	990903	101.0	30 - 120	
115 In	1	2722579	0.76	2708507	100.5	30 - 120	
165 Ho	1	4288606	0.81	4305677	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\AG100609.B\003CALB.D\003CALB.D#

1 :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\AG100609.B\008RLST.D\008RLST.D#
Date Acquired: Oct 6 2009 05:47 pm
Operator: TEL
Sample Name: RL STD
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: RLSTD
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	1.04	ppb	8.83	1	103.6	50 - 150	
23 Na	6	1	91.59	ppb	4.69	100	91.6	50 - 150	
24 Mg	6	1	103.40	ppb	1.29	100	103.4	50 - 150	
27 Al	45	1	86.89	ppb	1.39	100	86.9	50 - 150	
39 K	45	1	102.50	ppb	0.71	100	102.5	50 - 150	
43 Ca	45	1	114.10	ppb	10.52	100	114.1	50 - 150	
51 V	72	1	0.99	ppb	4.42	1	99.3	50 - 150	
52 Cr	72	1	1.07	ppb	5.27	1	107.1	50 - 150	
55 Mn	72	1	1.02	ppb	0.97	1	102.4	50 - 150	
57 Fe	72	1	104.30	ppb	2.43	100	104.3	50 - 150	
59 Co	72	1	1.00	ppb	3.48	1	100.4	50 - 150	
60 Ni	72	1	1.09	ppb	5.42	1	109.1	50 - 150	
63 Cu	72	1	1.08	ppb	4.27	1	108.1	50 - 150	
66 Zn	72	1	10.77	ppb	0.36	10	107.7	50 - 150	
75 As	72	1	1.00	ppb	5.29	1	100.2	50 - 150	
78 Se	72	1	1.18	ppb	30.19	1	118.1	50 - 150	
93 Nb	115	1	3.47	ppb	7.75	2	173.5	50 - 150	Fail NR
95 Mo	115	1	1.02	ppb	2.50	1	102.0	50 - 150	
105 Pd	115	1	1.06	ppb	1.50	1	105.5	50 - 150	
107 Ag	115	1	1.04	ppb	4.92	1	104.4	50 - 150	
111 Cd	115	1	0.99	ppb	2.48	1	98.6	50 - 150	
118 Sn	115	1	10.53	ppb	1.77	10	105.3	50 - 150	
121 Sb	115	1	1.00	ppb	1.90	1	99.8	50 - 150	
137 Ba	115	1	1.02	ppb	3.68	1	101.7	50 - 150	
182 W	165	1	1.02	ppb	4.70	1	102.3	50 - 150	
195 Pt	165	1	1.01	ppb	5.23	1	101.3	50 - 150	
205 Tl	165	1	1.07	ppb	2.43	1	107.2	50 - 150	
208 Pb	165	1	1.06	ppb	1.38	1	105.5	50 - 150	
232 Th	165	1	0.95	ppb	2.78	1	95.4	50 - 150	
238 U	165	1	1.08	ppb	0.60	1	108.0	50 - 150	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	489453	1.45	465255	105.2	30 - 120	
45 Sc	1	2148783	1.28	2085166	103.1	30 - 120	
72 Ge	1	1003844	0.94	990903	101.3	30 - 120	
115 In	1	2716129	0.92	2708507	100.3	30 - 120	
165 Ho	1	4303092	0.77	4305677	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\AG100609.B\003CALB.D\003CALB.D#

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

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\009AFCE.D\009AFCE.D#
Date Acquired: Oct 6 2009 05:49 pm
Operator: TEL
Sample Name: AFCEE RL
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: AFCEERL
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	0.20	ppb	8.60	0	96.0	80 - 120	
23 Na	6	1	10.53	ppb	13.38	18	57.5	80 - 120	
24 Mg	6	1	21.10	ppb	0.79	21	102.0	80 - 120	
27 Al	45	1	4.50	ppb	3.75	17	25.9	80 - 120	
39 K	45	1	21.67	ppb	6.80	21	105.7	80 - 120	
43 Ca	45	1	22.48	ppb	13.91	23	98.5	80 - 120	
51 V	72	1	0.15	ppb	5.83	0	77.7	80 - 120	
52 Cr	72	1	0.21	ppb	9.02	0	98.3	80 - 120	
55 Mn	72	1	0.20	ppb	7.77	0	96.0	80 - 120	
57 Fe	72	1	21.82	ppb	5.20	21	104.6	80 - 120	
59 Co	72	1	0.20	ppb	6.85	0	100.5	80 - 120	
60 Ni	72	1	0.22	ppb	3.23	0	101.6	80 - 120	
63 Cu	72	1	0.22	ppb	0.85	0	101.5	80 - 120	
66 Zn	72	1	2.06	ppb	3.82	2	95.6	80 - 120	
75 As	72	1	0.19	ppb	5.96	0	96.4	80 - 120	
78 Se	72	1	0.47	ppb	21.96	0	198.6	80 - 120	
93 Nb	115	1	1.46	ppb	14.88	1	210.7	80 - 120	
95 Mo	115	1	0.21	ppb	6.21	0	103.6	80 - 120	
105 Pd	115	1	0.22	ppb	6.03	0	103.6	80 - 120	
107 Ag	115	1	0.22	ppb	6.88	0	105.2	80 - 120	
111 Cd	115	1	0.21	ppb	4.99	0	104.0	80 - 120	
118 Sn	115	1	2.11	ppb	5.38	2	100.4	80 - 120	
121 Sb	115	1	0.22	ppb	1.52	0	111.1	80 - 120	
137 Ba	115	1	0.20	ppb	5.37	0	100.1	80 - 120	
182 W	165	1	0.22	ppb	7.12	0	106.3	80 - 120	
195 Pt	165	1	0.22	ppb	13.48	0	107.4	80 - 120	
205 Tl	165	1	0.21	ppb	2.35	0	99.3	80 - 120	
208 Pb	165	1	0.21	ppb	3.04	0	100.6	80 - 120	
232 Th	165	1	0.21	ppb	8.22	0	112.5	80 - 120	
238 U	165	1	0.21	ppb	1.22	0	98.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	495512	1.48	465255	106.5	30 - 120	
45 Sc	1	2158739	1.48	2085166	103.5	30 - 120	
72 Ge	1	1009895	0.62	990903	101.9	30 - 120	
115 In	1	2718939	1.75	2708507	100.4	30 - 120	
165 Ho	1	4305779	0.84	4305677	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\AG100609.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\AG100609.B\010SMPL.D\010SMPL.D#
Date Acquired: Oct 6 2009 05:52 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ALTSe
Misc Info: 2 ppb
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	86.61	3600	
23 Na	6	1	-9.36	-9.36	ppb	12.98	100000	
24 Mg	6	1	0.05	0.05	ppb	66.57	100000	
27 Al	45	1	-16.34	-16.34	ppb	0.49	100000	
39 K	45	1	0.97	0.97	ppb	182.75	100000	
43 Ca	45	1	2.05	2.05	ppb	64.23	100000	
51 V	72	1	-0.03	-0.03	ppb	72.79	3600	
52 Cr	72	1	-0.02	-0.02	ppb	97.94	3600	
55 Mn	72	1	0.01	0.01	ppb	58.29	18000	
57 Fe	72	1	0.18	0.18	ppb	249.30	100000	
59 Co	72	1	0.00	0.00	ppb	159.54	3600	
60 Ni	72	1	0.02	0.02	ppb	79.04	3600	
63 Cu	72	1	0.08	0.08	ppb	12.57	3600	
66 Zn	72	1	0.12	0.12	ppb	29.54	3600	
75 As	72	1	0.00	0.00	ppb	200.56	3600	
78 Se	72	1	2.18	2.18	ppb	33.13	3600	
93 Nb	115	1	0.76	0.76	ppb	17.30	2000	
95 Mo	115	1	0.01	0.01	ppb	164.74	3600	
105 Pd	115	1	0.01	0.01	ppb	17.69	1000	
107 Ag	115	1	0.00	0.00	ppb	78.10	3600	
111 Cd	115	1	0.00	0.00	ppb	236.74	3600	
118 Sn	115	1	0.04	0.04	ppb	13.37	3600	
121 Sb	115	1	0.02	0.02	ppb	28.01	3600	
137 Ba	115	1	0.01	0.01	ppb	77.87	3600	
182 W	165	1	0.00	0.00	ppb	221.49	1000	
195 Pt	165	1	0.00	0.00	ppb	44.02	1000	
205 Tl	165	1	0.00	0.00	ppb	80.80	3600	
208 Pb	165	1	0.00	0.00	ppb	65.69	3600	
232 Th	165	1	0.01	0.01	ppb	36.39	1000	
238 U	165	1	0.00	0.00	ppb	88.32	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	500100	2.02	465255	107.5	30 - 120	
45 Sc	1	2173537	2.15	2085166	104.2	30 - 120	
72 Ge	1	1017905	0.74	990903	102.7	30 - 120	
115 In	1	2719418	2.19	2708507	100.4	30 - 120	
165 Ho	1	4331357	0.45	4305677	100.6	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\AG100609.B\003CALB.D\003CALB.D#

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

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\011ICSA.D\011ICSA.D#
Date Acquired: Oct 6 2009 05:55 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSA
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	
23 Na	6	1	105700.00 ppb	3.56	100000.00	
24 Mg	6	1	103400.00 ppb	2.93	100000.00	
27 Al	45	1	95440.00 ppb	1.19	100000.00	
39 K	45	1	95820.00 ppb	1.07	100000.00	
43 Ca	45	1	101500.00 ppb	1.32	100000.00	
51 V	72	1	-0.36 ppb	20.93	1.00	
52 Cr	72	1	0.62 ppb	4.90	1.00	
55 Mn	72	1	3.84 ppb	2.44	1.00	
57 Fe	72	1	96260.00 ppb	1.59	100000.00	
59 Co	72	1	1.47 ppb	3.33	1.00	
60 Ni	72	1	1.51 ppb	4.86	1.00	
63 Cu	72	1	1.55 ppb	3.36	1.00	
66 Zn	72	1	3.01 ppb	2.48	10.00	
75 As	72	1	0.37 ppb	9.14	1.00	
78 Se	72	1	0.39 ppb	47.89	1.00	
93 Nb	115	1	1.34 ppb	21.56	2.00	
95 Mo	115	1	2060.00 ppb	3.22	2000.00	
105 Pd	115	1	0.07 ppb	20.22	1.00	
107 Ag	115	1	0.04 ppb	21.36	1.00	
111 Cd	115	1	2.19 ppb	2.62	1.00	
118 Sn	115	1	0.14 ppb	25.12	10.00	
121 Sb	115	1	0.27 ppb	6.70	1.00	
137 Ba	115	1	0.06 ppb	6.07	1.00	
182 W	165	1	0.12 ppb	7.59	5.00	
195 Pt	165	1	0.00 ppb	416.29	1.00	
205 Tl	165	1	0.03 ppb	30.14	1.00	
208 Pb	165	1	0.12 ppb	9.57	1.00	
232 Th	165	1	0.02 ppb	23.37	2.00	
238 U	165	1	0.01 ppb	20.84	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	315952	3.80	465255	67.9	30 - 120	
45 Sc	1	1522086	1.97	2085166	73.0	30 - 120	
72 Ge	1	746397	1.04	990903	75.3	30 - 120	
115 In	1	2032227	1.69	2708507	75.0	30 - 120	
165 Ho	1	3452969	0.40	4305677	80.2	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\AG100609.B\003CALB.D\003CALB.D#

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

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\012ICSB.D\012ICSB.D#
Date Acquired: Oct 6 2009 05:58 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSAB
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	105.80	2.61	100	105.8	80 - 120	
23 Na	6	1	118800.00	0.19	110000	108.0	80 - 120	
24 Mg	6	1	117100.00	0.54	110000	106.5	80 - 120	
27 Al	45	1	103600.00	2.00	110000	94.2	80 - 120	
39 K	45	1	103900.00	0.45	110000	94.5	80 - 120	
43 Ca	45	1	112500.00	1.47	110000	102.3	80 - 120	
51 V	72	1	96.34	3.61	100	96.3	80 - 120	
52 Cr	72	1	96.15	1.72	100	96.2	80 - 120	
55 Mn	72	1	100.10	0.67	100	100.1	80 - 120	
57 Fe	72	1	104300.00	0.67	110000	94.8	80 - 120	
59 Co	72	1	94.67	0.85	100	94.7	80 - 120	
60 Ni	72	1	92.71	1.72	100	92.7	80 - 120	
63 Cu	72	1	92.61	1.11	100	92.6	80 - 120	
66 Zn	72	1	98.47	0.79	100	98.5	80 - 120	
75 As	72	1	101.50	0.49	100	101.5	80 - 120	
78 Se	72	1	107.70	1.25	100	107.7	80 - 120	
93 Nb	115	1	198.30	1.70	200	99.2	80 - 120	
95 Mo	115	1	2109.00	0.48	2100	100.4	80 - 120	
105 Pd	115	1	95.44	1.01	100	95.4	80 - 120	
107 Ag	115	1	93.10	4.06	100	93.1	80 - 120	
111 Cd	115	1	98.08	0.81	100	98.1	80 - 120	
118 Sn	115	1	101.30	1.54	100	101.3	80 - 120	
121 Sb	115	1	103.30	0.81	100	103.3	80 - 120	
137 Ba	115	1	102.60	0.75	100	102.6	80 - 120	
182 W	165	1	105.20	0.88	100	105.2	80 - 120	
195 Pt	165	1	99.26	0.31	100	99.3	80 - 120	
205 Tl	165	1	101.00	0.44	100	101.0	80 - 120	
208 Pb	165	1	99.69	1.18	100	99.7	80 - 120	
232 Th	165	1	105.50	0.78	100	105.5	80 - 120	
238 U	165	1	105.90	1.14	100	105.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	276946	3.41	465255	59.5	30 - 120	
45 Sc	1	1406615	0.70	2085166	67.5	30 - 120	
72 Ge	1	701358	1.09	990903	70.8	30 - 120	
115 In	1	1968650	1.30	2708507	72.7	30 - 120	
165 Ho	1	3399356	0.51	4305677	79.0	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\AG100609.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\AG100609.B\013SMPL.D\013SMPL.D#
Date Acquired: Oct 6 2009 06:01 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	173.21	3600	
23 Na	6	1	15.24	15.24	ppb	23.76	100000	
24 Mg	6	1	12.62	12.62	ppb	16.22	100000	
27 Al	45	1	-4.98	-4.98	ppb	38.87	100000	
39 K	45	1	9.40	9.40	ppb	19.45	100000	
43 Ca	45	1	12.98	12.98	ppb	20.24	100000	
51 V	72	1	-0.02	-0.02	ppb	32.94	3600	
52 Cr	72	1	0.01	0.01	ppb	126.31	3600	
55 Mn	72	1	0.01	0.01	ppb	57.14	18000	
57 Fe	72	1	14.43	14.43	ppb	14.27	100000	
59 Co	72	1	0.01	0.01	ppb	64.51	3600	
60 Ni	72	1	0.01	0.01	ppb	40.36	3600	
63 Cu	72	1	0.01	0.01	ppb	59.31	3600	
66 Zn	72	1	0.06	0.06	ppb	16.40	3600	
75 As	72	1	0.01	0.01	ppb	76.58	3600	
78 Se	72	1	0.05	0.05	ppb	671.35	3600	
93 Nb	115	1	4.81	4.81	ppb	14.77	2000	
95 Mo	115	1	1.18	1.18	ppb	3.91	3600	
105 Pd	115	1	0.01	0.01	ppb	44.91	1000	
107 Ag	115	1	0.01	0.01	ppb	43.38	3600	
111 Cd	115	1	0.01	0.01	ppb	43.63	3600	
118 Sn	115	1	0.08	0.08	ppb	23.47	3600	
121 Sb	115	1	0.19	0.19	ppb	6.85	3600	
137 Ba	115	1	0.00	0.00	ppb	200.80	3600	
182 W	165	1	0.07	0.07	ppb	17.06	1000	
195 Pt	165	1	0.01	0.01	ppb	45.81	1000	
205 Tl	165	1	0.02	0.02	ppb	23.29	3600	
208 Pb	165	1	0.01	0.01	ppb	15.22	3600	
232 Th	165	1	0.25	0.25	ppb	19.03	1000	
238 U	165	1	0.02	0.02	ppb	7.95	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	458050	1.12	465255	98.5	30 - 120	
45 Sc	1	2017697	0.86	2085166	96.8	30 - 120	
72 Ge	1	946806	0.74	990903	95.5	30 - 120	
115 In	1	2657789	0.90	2708507	98.1	30 - 120	
165 Ho	1	4277436	0.36	4305677	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\AG100609.B\003CALB.D\003CALB.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\AG100609.B\014WASH.D\014WASH.D#
Date Acquired: Oct 6 2009 06:04 pm
Operator: TEL
Sample Name: LR1
Misc Info:
Vial Number: 2110
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	1001.000 ppb	2.83	1.30	
23 Na	6	1	3.478 ppb	44.91	65.00	
24 Mg	6	1	5.291 ppb	6.60	65.00	
27 Al	45	1	-10.050 ppb	2.51	39.00	
39 K	45	1	9.833 ppb	3.47	130.00	
43 Ca	45	1	16.680 ppb	13.24	65.00	
51 V	72	1	934.500 ppb	0.38	6.50	
52 Cr	72	1	984.000 ppb	1.27	2.60	
55 Mn	72	1	970.900 ppb	1.06	1.30	
57 Fe	72	1	6.165 ppb	5.96	65.00	
59 Co	72	1	984.900 ppb	1.06	1.30	
60 Ni	72	1	1010.000 ppb	0.91	2.60	
63 Cu	72	1	1031.000 ppb	1.37	2.60	
66 Zn	72	1	998.500 ppb	0.87	13.00	
75 As	72	1	1009.000 ppb	0.60	6.50	
78 Se	72	1	1036.000 ppb	1.31	6.50	
93 Nb	115	1	6.008 ppb	12.57	52.00	
95 Mo	115	1	999.400 ppb	1.18	2.60	
105 Pd	115	1	0.012 ppb	23.20	1.30	
107 Ag	115	1	1008.000 ppb	0.36	6.50	
111 Cd	115	1	987.700 ppb	1.95	1.30	
118 Sn	115	1	969.300 ppb	0.90	13.00	
121 Sb	115	1	962.700 ppb	0.14	2.60	
137 Ba	115	1	971.500 ppb	0.30	1.30	
182 W	165	1	0.089 ppb	6.06	6.50	
195 Pt	165	1	0.006 ppb	11.84	1.30	
205 Tl	165	1	1000.000 ppb	0.72	1.30	
208 Pb	165	1	988.600 ppb	1.07	1.30	
232 Th	165	1	996.000 ppb	0.93	2.60	
238 U	165	1	994.800 ppb	0.57	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	455550	0.61	465255	97.9	30 - 120	
45 Sc	1	2053036	0.20	2085166	98.5	30 - 120	
72 Ge	1	959088	0.37	990903	96.8	30 - 120	
115 In	1	2605028	0.71	2708507	96.2	30 - 120	
165 Ho	1	4261098	0.81	4305677	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.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\AG100609.B\015SMPL.D\015SMPL.D#
Date Acquired: Oct 6 2009 06:07 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	0.06	0.06	ppb	115.92	3600	
23 Na	6	1	-9.22	-9.22	ppb	19.41	100000	
24 Mg	6	1	2.83	2.83	ppb	4.98	100000	
27 Al	45	1	-14.50	-14.50	ppb	0.43	100000	
39 K	45	1	3.45	3.45	ppb	26.99	100000	
43 Ca	45	1	3.33	3.33	ppb	37.71	100000	
51 V	72	1	0.06	0.06	ppb	53.07	3600	
52 Cr	72	1	0.05	0.05	ppb	50.55	3600	
55 Mn	72	1	0.08	0.08	ppb	17.82	18000	
57 Fe	72	1	3.62	3.62	ppb	5.22	100000	
59 Co	72	1	0.08	0.08	ppb	15.96	3600	
60 Ni	72	1	0.07	0.07	ppb	30.71	3600	
63 Cu	72	1	0.08	0.08	ppb	12.42	3600	
66 Zn	72	1	0.17	0.17	ppb	3.50	3600	
75 As	72	1	0.12	0.12	ppb	30.72	3600	
78 Se	72	1	0.33	0.33	ppb	161.68	3600	
93 Nb	115	1	1.17	1.17	ppb	19.46	2000	
95 Mo	115	1	0.74	0.74	ppb	2.98	3600	
105 Pd	115	1	0.00	0.00	ppb	43.13	1000	
107 Ag	115	1	0.11	0.11	ppb	18.30	3600	
111 Cd	115	1	0.08	0.08	ppb	18.98	3600	
118 Sn	115	1	1.19	1.19	ppb	23.15	3600	
121 Sb	115	1	1.57	1.57	ppb	8.39	3600	
137 Ba	115	1	0.07	0.07	ppb	26.16	3600	
182 W	165	1	0.01	0.01	ppb	111.08	1000	
195 Pt	165	1	0.00	0.00	ppb	146.73	1000	
205 Tl	165	1	0.20	0.20	ppb	20.21	3600	
208 Pb	165	1	0.08	0.08	ppb	16.64	3600	
232 Th	165	1	2.18	2.18	ppb	21.43	1000	
238 U	165	1	0.16	0.16	ppb	2.83	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	491137	2.74	465255	105.6	30 - 120	
45 Sc	1	2092864	1.10	2085166	100.4	30 - 120	
72 Ge	1	988635	0.33	990903	99.8	30 - 120	
115 In	1	2712237	0.93	2708507	100.1	30 - 120	
165 Ho	1	4278438	0.75	4305677	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\AG100609.B\003CALB.D\003CALB.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\AG100609.B\016WASH.D\016WASH.D#
Date Acquired: Oct 6 2009 06:10 pm
Operator: TEL
Sample Name: LR2
Misc Info:
Vial Number: 2111
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.069 ppb	24.77	1.30	
23 Na	6	1	102100.000 ppb	0.31	65.00	
24 Mg	6	1	101100.000 ppb	0.30	65.00	
27 Al	45	1	103100.000 ppb	0.60	39.00	
39 K	45	1	99710.000 ppb	2.02	130.00	
43 Ca	45	1	103900.000 ppb	0.62	65.00	
51 V	72	1	-0.280 ppb	6.39	6.50	
52 Cr	72	1	0.465 ppb	4.26	2.60	
55 Mn	72	1	4.216 ppb	0.33	1.30	
57 Fe	72	1	98420.000 ppb	0.51	65.00	
59 Co	72	1	1.727 ppb	2.63	1.30	
60 Ni	72	1	1.682 ppb	5.09	2.60	
63 Cu	72	1	1.600 ppb	0.76	2.60	
66 Zn	72	1	3.522 ppb	3.73	13.00	
75 As	72	1	0.212 ppb	17.46	6.50	
78 Se	72	1	0.457 ppb	73.42	6.50	
93 Nb	115	1	2393.000 ppb	0.71	52.00	
95 Mo	115	1	0.568 ppb	1.19	2.60	
105 Pd	115	1	934.000 ppb	0.46	1.30	
107 Ag	115	1	0.113 ppb	10.06	6.50	
111 Cd	115	1	0.241 ppb	15.98	1.30	
118 Sn	115	1	1.429 ppb	65.37	13.00	
121 Sb	115	1	1.284 ppb	5.05	2.60	
137 Ba	115	1	0.127 ppb	12.76	1.30	
182 W	165	1	1008.000 ppb	1.00	6.50	
195 Pt	165	1	986.300 ppb	1.77	1.30	
205 Tl	165	1	0.091 ppb	18.35	1.30	
208 Pb	165	1	0.194 ppb	3.55	1.30	
232 Th	165	1	0.252 ppb	45.67	2.60	
238 U	165	1	0.077 ppb	6.59	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	410255	1.49	465255	88.2	30 - 120	
45 Sc	1	1815266	1.22	2085166	87.1	30 - 120	
72 Ge	1	834672	0.70	990903	84.2	30 - 120	
115 In	1	2145200	0.63	2708507	79.2	30 - 120	
165 Ho	1	3396230	1.61	4305677	78.9	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\AG100609.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\AG100609.B\017SMPL.D\017SMPL.D#
Date Acquired: Oct 6 2009 06:13 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	173.19	3600	
23 Na	6	1	-1.11	-1.11	ppb	253.03	100000	
24 Mg	6	1	10.46	10.46	ppb	17.13	100000	
27 Al	45	1	-6.15	-6.15	ppb	23.27	100000	
39 K	45	1	9.06	9.06	ppb	14.12	100000	
43 Ca	45	1	12.79	12.79	ppb	13.26	100000	
51 V	72	1	-0.04	-0.04	ppb	24.02	3600	
52 Cr	72	1	0.01	0.01	ppb	150.92	3600	
55 Mn	72	1	0.01	0.01	ppb	45.60	18000	
57 Fe	72	1	11.92	11.92	ppb	18.46	100000	
59 Co	72	1	0.01	0.01	ppb	41.02	3600	
60 Ni	72	1	0.01	0.01	ppb	263.38	3600	
63 Cu	72	1	0.02	0.02	ppb	34.66	3600	
66 Zn	72	1	0.12	0.12	ppb	6.65	3600	
75 As	72	1	0.01	0.01	ppb	116.48	3600	
78 Se	72	1	0.02	0.02	ppb	1618.90	3600	
93 Nb	115	1	2.76	2.76	ppb	6.75	2000	
95 Mo	115	1	0.11	0.11	ppb	10.58	3600	
105 Pd	115	1	0.37	0.37	ppb	11.93	1000	
107 Ag	115	1	0.02	0.02	ppb	121.56	3600	
111 Cd	115	1	0.01	0.01	ppb	28.05	3600	
118 Sn	115	1	0.18	0.18	ppb	25.46	3600	
121 Sb	115	1	0.15	0.15	ppb	17.27	3600	
137 Ba	115	1	0.01	0.01	ppb	76.70	3600	
182 W	165	1	0.32	0.32	ppb	8.92	1000	
195 Pt	165	1	0.10	0.10	ppb	11.83	1000	
205 Tl	165	1	0.01	0.01	ppb	27.23	3600	
208 Pb	165	1	0.01	0.01	ppb	15.42	3600	
232 Th	165	1	0.01	0.01	ppb	7.92	1000	
238 U	165	1	0.02	0.02	ppb	14.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	529831	3.24	465255	113.9	30 - 120	
45 Sc	1	2163212	0.79	2085166	103.7	30 - 120	
72 Ge	1	1001773	0.78	990903	101.1	30 - 120	
115 In	1	2700414	0.76	2708507	99.7	30 - 120	
165 Ho	1	4191386	1.28	4305677	97.3	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\AG100609.B\003CALB.D\003CALB.D#

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

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\018_CCV.D\018_CCV.D#
Date Acquired: Oct 6 2009 06:16 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	46.15	ppb	2.96	50	92.3	90 - 110	
23 Na	6	1	4680.00	ppb	1.43	5000	93.6	90 - 110	
24 Mg	6	1	4666.00	ppb	0.63	5000	93.3	90 - 110	
27 Al	45	1	4991.00	ppb	0.42	5000	99.8	90 - 110	
39 K	45	1	4909.00	ppb	1.73	5000	98.2	90 - 110	
43 Ca	45	1	4911.00	ppb	3.16	5000	98.2	90 - 110	
51 V	72	1	49.97	ppb	3.03	50	99.9	90 - 110	
52 Cr	72	1	50.55	ppb	1.63	50	101.1	90 - 110	
55 Mn	72	1	50.35	ppb	1.88	50	100.7	90 - 110	
57 Fe	72	1	5111.00	ppb	1.09	5000	102.2	90 - 110	
59 Co	72	1	49.87	ppb	2.07	50	99.7	90 - 110	
60 Ni	72	1	50.77	ppb	2.22	50	101.5	90 - 110	
63 Cu	72	1	50.86	ppb	1.76	50	101.7	90 - 110	
66 Zn	72	1	49.40	ppb	1.58	50	98.8	90 - 110	
75 As	72	1	49.73	ppb	1.83	50	99.5	90 - 110	
78 Se	72	1	49.35	ppb	4.10	50	98.7	90 - 110	
93 Nb	115	1	96.51	ppb	0.24	100	96.5	90 - 110	
95 Mo	115	1	51.08	ppb	0.70	50	102.2	90 - 110	
105 Pd	115	1	50.77	ppb	1.63	50	101.5	90 - 110	
107 Ag	115	1	51.08	ppb	0.59	50	102.2	90 - 110	
111 Cd	115	1	49.73	ppb	1.16	50	99.5	90 - 110	
118 Sn	115	1	49.88	ppb	0.36	50	99.8	90 - 110	
121 Sb	115	1	49.14	ppb	0.77	50	98.3	90 - 110	
137 Ba	115	1	49.81	ppb	1.18	50	99.6	90 - 110	
182 W	165	1	49.25	ppb	1.98	50	98.5	90 - 110	
195 Pt	165	1	50.47	ppb	0.89	50	100.9	90 - 110	
205 Tl	165	1	51.09	ppb	0.37	50	102.2	90 - 110	
208 Pb	165	1	50.80	ppb	0.91	50	101.6	90 - 110	
232 Th	165	1	50.66	ppb	1.14	50	101.3	90 - 110	
238 U	165	1	50.23	ppb	1.60	50	100.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	517990	2.02	465255	111.3	30 - 120	
45 Sc	1	2147771	1.23	2085166	103.0	30 - 120	
72 Ge	1	1004608	1.45	990903	101.4	30 - 120	
115 In	1	2639806	0.75	2708507	97.5	30 - 120	
165 Ho	1	4181883	0.95	4305677	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\AG100609.B\003CALB.D\003CALB.D#

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

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\019_CCB.D\019_CCB.D#
Date Acquired: Oct 6 2009 06:18 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.013	ppb	99.85	1.00	
23 Na	6	1	-15.910	ppb	5.07	20.00	
24 Mg	6	1	1.266	ppb	8.03	20.00	
27 Al	45	1	-15.650	ppb	0.70	20.00	
39 K	45	1	-3.673	ppb	43.37	20.00	
43 Ca	45	1	2.208	ppb	51.00	20.00	
51 V	72	1	-0.030	ppb	79.61	1.00	
52 Cr	72	1	0.025	ppb	33.90	1.00	
55 Mn	72	1	0.001	ppb	137.83	1.00	
57 Fe	72	1	2.075	ppb	5.50	20.00	
59 Co	72	1	0.012	ppb	28.65	1.00	
60 Ni	72	1	0.021	ppb	110.16	1.00	
63 Cu	72	1	0.004	ppb	171.63	1.00	
66 Zn	72	1	0.044	ppb	41.59	10.00	
75 As	72	1	0.007	ppb	257.06	1.00	
78 Se	72	1	-0.014	ppb	1522.20	1.00	
93 Nb	115	1	3.583	ppb	11.87	2.00	Fail
95 Mo	115	1	0.074	ppb	5.63	1.00	
105 Pd	115	1	0.088	ppb	0.93	1.00	
107 Ag	115	1	0.015	ppb	34.08	1.00	
111 Cd	115	1	0.010	ppb	16.39	1.00	
118 Sn	115	1	0.124	ppb	21.08	10.00	
121 Sb	115	1	0.207	ppb	7.47	1.00	
137 Ba	115	1	0.012	ppb	28.38	1.00	
182 W	165	1	0.075	ppb	31.33	5.00	
195 Pt	165	1	0.006	ppb	129.70	1.00	
205 Tl	165	1	0.025	ppb	14.13	1.00	
208 Pb	165	1	0.010	ppb	5.41	1.00	
232 Th	165	1	0.167	ppb	13.58	2.00	
238 U	165	1	0.018	ppb	5.43	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	540492	1.58	465255	116.2	30 - 120	
45 Sc	1	2235578	2.44	2085166	107.2	30 - 120	
72 Ge	1	1025301	0.48	990903	103.5	30 - 120	
115 In	1	2727064	1.58	2708507	100.7	30 - 120	
165 Ho	1	4248165	0.98	4305677	98.7	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\AG100609.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\AG100609.B\020WASH.D\020WASH.D#
Date Acquired: Oct 6 2009 06:21 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.996 ppb	10.03	1.30	
23 Na	6	1	34.770 ppb	1.79	65.00	
24 Mg	6	1	52.650 ppb	0.83	65.00	
27 Al	45	1	16.840 ppb	2.08	39.00	
39 K	45	1	103.000 ppb	2.52	130.00	
43 Ca	45	1	53.010 ppb	12.81	65.00	
51 V	72	1	5.109 ppb	2.20	6.50	
52 Cr	72	1	2.112 ppb	4.98	2.60	
55 Mn	72	1	1.096 ppb	3.14	1.30	
57 Fe	72	1	57.950 ppb	3.81	65.00	
59 Co	72	1	1.071 ppb	3.42	1.30	
60 Ni	72	1	2.215 ppb	9.64	2.60	
63 Cu	72	1	2.227 ppb	3.90	2.60	
66 Zn	72	1	10.480 ppb	1.24	13.00	
75 As	72	1	5.169 ppb	0.08	6.50	
78 Se	72	1	4.977 ppb	8.70	6.50	
93 Nb	115	1	45.250 ppb	1.82	52.00	
95 Mo	115	1	2.019 ppb	2.54	2.60	
105 Pd	115	1	0.941 ppb	6.09	1.30	
107 Ag	115	1	5.490 ppb	1.19	6.50	
111 Cd	115	1	1.051 ppb	6.20	1.30	
118 Sn	115	1	10.300 ppb	1.36	13.00	
121 Sb	115	1	2.079 ppb	2.50	2.60	
137 Ba	115	1	1.052 ppb	4.25	1.30	
182 W	165	1	5.024 ppb	1.72	6.50	
195 Pt	165	1	0.987 ppb	3.47	1.30	
205 Tl	165	1	1.144 ppb	0.56	1.30	
208 Pb	165	1	1.131 ppb	1.99	1.30	
232 Th	165	1	2.292 ppb	1.84	2.60	
238 U	165	1	1.134 ppb	2.13	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	544087	0.75	465255	116.9	30 - 120	
45 Sc	1	2234861	0.91	2085166	107.2	30 - 120	
72 Ge	1	1036661	1.33	990903	104.6	30 - 120	
115 In	1	2758498	0.79	2708507	101.8	30 - 120	
165 Ho	1	4259407	1.16	4305677	98.9	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\AG100609.B\003CALB.D\003CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: LRD

Date: 10/6/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\025CALB.D\025CALB.D#
Date Acquired: Oct 6 2009 06:36 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 06:34 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	319303	0.47
24	Mg	6	1	1237	6.52
27	Al	45	1	63936	1.58
39	K	45	1	362834	1.79
43	Ca	45	1	50	20.67
51	V	72	1	40	56.49
52	Cr	72	1	4304	5.05
55	Mn	72	1	837	0.71
57	Fe	72	1	740	17.72
59	Co	72	1	47	32.71
60	Ni	72	1	173	21.85
63	Cu	72	1	457	13.20
66	Zn	72	1	851	2.80
75	As	72	1	51	9.78
78	Se	72	1	753	5.05
93	Nb	115	1	12766	21.67
95	Mo	115	1	83	38.62
105	Pd	115	1	77	65.68
107	Ag	115	1	20	49.88
111	Cd	115	1	6	91.60
118	Sn	115	1	397	24.71
121	Sb	115	1	221	20.37
137	Ba	115	1	31	37.76
182	W	165	1	887	13.25
195	Pt	165	1	217	29.24
205	Tl	165	1	113	15.17
208	Pb	165	1	346	1.98
232	Th	165	1	190	32.74
238	U	165	1	43	20.42

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	552567	0.70
45	Sc	1	2258491	1.39
72	Ge	1	1048475	0.03
115	In	1	2762482	0.15
165	Ho	1	4237360	0.17

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\AG100609.B\026ICAL.D\026ICAL.D#
Date Acquired: Oct 6 2009 06:39 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 06:37 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	69198	0.47
23	Na	6	1	50229080	2.14
24	Mg	6	1	31301490	0.68
27	Al	45	1	28384090	1.00
39	K	45	1	48981820	1.54
43	Ca	45	1	124598	0.57
51	V	72	1	1308332	3.51
52	Cr	72	1	1314178	2.16
55	Mn	72	1	1473835	1.90
57	Fe	72	1	3322746	1.96
59	Co	72	1	1587514	2.52
60	Ni	72	1	352151	2.87
63	Cu	72	1	847351	2.61
66	Zn	72	1	190236	2.00
75	As	72	1	159245	2.90
78	Se	72	1	29469	4.04
93	Nb	115	1	4215026	2.13
95	Mo	115	1	425929	1.01
105	Pd	115	1	531540	1.94
107	Ag	115	1	1167280	0.52
111	Cd	115	1	236651	0.68
118	Sn	115	1	660458	1.11
121	Sb	115	1	769900	0.44
137	Ba	115	1	321859	1.20
182	W	165	1	1032564	0.70
195	Pt	165	1	678440	1.16
205	Tl	165	1	2242621	1.55
208	Pb	165	1	3043152	1.43
232	Th	165	1	3259036	0.80
238	U	165	1	3330839	0.74

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	530901	0.74	552567	96.1	30 - 120	
45	Sc	1	2168999	1.10	2258491	96.0	30 - 120	
72	Ge	1	997574	2.26	1048475	95.1	30 - 120	
115	In	1	2595520	1.13	2762482	94.0	30 - 120	
165	Ho	1	4108111	0.72	4237360	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\AG100609.B\025CALB.D\025CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\027_CCV.D\027_CCV.D#
Date Acquired: Oct 6 2009 06:42 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 06:40 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.43	ppb	3.90	50	98.9	90 - 110	
23 Na	6	1	4936.00	ppb	2.60	5000	98.7	90 - 110	
24 Mg	6	1	4999.00	ppb	3.26	5000	100.0	90 - 110	
27 Al	45	1	5076.00	ppb	1.10	5000	101.5	90 - 110	
39 K	45	1	5069.00	ppb	0.60	5000	101.4	90 - 110	
43 Ca	45	1	5033.00	ppb	1.26	5000	100.7	90 - 110	
51 V	72	1	49.21	ppb	0.84	50	98.4	90 - 110	
52 Cr	72	1	49.34	ppb	0.84	50	98.7	90 - 110	
55 Mn	72	1	50.69	ppb	1.21	50	101.4	90 - 110	
57 Fe	72	1	5093.00	ppb	0.77	5000	101.9	90 - 110	
59 Co	72	1	50.51	ppb	0.85	50	101.0	90 - 110	
60 Ni	72	1	50.36	ppb	1.10	50	100.7	90 - 110	
63 Cu	72	1	50.30	ppb	0.60	50	100.6	90 - 110	
66 Zn	72	1	50.48	ppb	0.56	50	101.0	90 - 110	
75 As	72	1	50.04	ppb	0.73	50	100.1	90 - 110	
78 Se	72	1	47.78	ppb	1.93	50	95.6	90 - 110	
93 Nb	115	1	101.40	ppb	1.29	100	101.4	90 - 110	
95 Mo	115	1	49.20	ppb	2.03	50	98.4	90 - 110	
105 Pd	115	1	49.88	ppb	2.29	50	99.8	90 - 110	
107 Ag	115	1	50.98	ppb	2.24	50	102.0	90 - 110	
111 Cd	115	1	49.77	ppb	2.60	50	99.5	90 - 110	
118 Sn	115	1	49.03	ppb	1.14	50	98.1	90 - 110	
121 Sb	115	1	49.25	ppb	1.35	50	98.5	90 - 110	
137 Ba	115	1	49.38	ppb	1.82	50	98.8	90 - 110	
182 W	165	1	49.08	ppb	0.24	50	98.2	90 - 110	
195 Pt	165	1	49.89	ppb	0.88	50	99.8	90 - 110	
205 Tl	165	1	51.49	ppb	1.15	50	103.0	90 - 110	
208 Pb	165	1	50.94	ppb	1.61	50	101.9	90 - 110	
232 Th	165	1	50.80	ppb	1.03	50	101.6	90 - 110	
238 U	165	1	50.45	ppb	0.70	50	100.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	545742	2.80	552567	98.8	30 - 120	
45 Sc	1	2192943	0.38	2258491	97.1	30 - 120	
72 Ge	1	1010065	0.53	1048475	96.3	30 - 120	
115 In	1	2652466	0.80	2762482	96.0	30 - 120	
165 Ho	1	4161691	0.19	4237360	98.2	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\AG100609.B\025CALB.D\025CALB.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\AG100609.B\028_CCB.D\028_CCB.D#
Date Acquired: Oct 6 2009 06:45 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 06:40 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	0.014	ppb	99.05	1.00	
23 Na	6	1	-3.851	ppb	34.20	20.00	
24 Mg	6	1	0.569	ppb	24.76	20.00	
27 Al	45	1	-17.620	ppb	0.80	20.00	
39 K	45	1	1.111	ppb	80.32	20.00	
43 Ca	45	1	-1.788	ppb	25.47	20.00	
51 V	72	1	0.013	ppb	164.86	1.00	
52 Cr	72	1	0.006	ppb	265.75	1.00	
55 Mn	72	1	0.005	ppb	253.11	1.00	
57 Fe	72	1	0.874	ppb	35.00	20.00	
59 Co	72	1	0.011	ppb	24.58	1.00	
60 Ni	72	1	-0.002	ppb	735.15	1.00	
63 Cu	72	1	0.020	ppb	21.38	1.00	
66 Zn	72	1	0.033	ppb	71.60	10.00	
75 As	72	1	0.022	ppb	23.20	1.00	
78 Se	72	1	-0.219	ppb	110.06	1.00	
93 Nb	115	1	3.597	ppb	15.56	2.00	Fail
95 Mo	115	1	0.037	ppb	0.28	1.00	
105 Pd	115	1	0.034	ppb	15.64	1.00	
107 Ag	115	1	0.015	ppb	34.93	1.00	
111 Cd	115	1	0.015	ppb	37.74	1.00	
118 Sn	115	1	0.059	ppb	30.39	10.00	
121 Sb	115	1	0.198	ppb	9.76	1.00	
137 Ba	115	1	0.019	ppb	49.96	1.00	
182 W	165	1	0.036	ppb	29.07	5.00	
195 Pt	165	1	-0.003	ppb	343.94	1.00	
205 Tl	165	1	0.028	ppb	14.78	1.00	
208 Pb	165	1	0.013	ppb	10.36	1.00	
232 Th	165	1	0.174	ppb	15.19	2.00	
238 U	165	1	0.018	ppb	6.46	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	555754	1.72	552567	100.6	30 - 120	
45 Sc	1	2242975	0.40	2258491	99.3	30 - 120	
72 Ge	1	1032869	0.89	1048475	98.5	30 - 120	
115 In	1	2731502	0.19	2762482	98.9	30 - 120	
165 Ho	1	4212796	1.12	4237360	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\AG100609.B\025CALB.D\025CALB.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\AG100609.B\029WASH.D\029WASH.D#
Date Acquired: Oct 6 2009 06:48 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 06:40 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	0.922 ppb	2.96	1.30	
23 Na	6	1	50.700 ppb	2.90	65.00	
24 Mg	6	1	56.730 ppb	0.83	65.00	
27 Al	45	1	14.300 ppb	5.04	39.00	
39 K	45	1	110.200 ppb	1.97	130.00	
43 Ca	45	1	55.120 ppb	10.07	65.00	
51 V	72	1	5.302 ppb	3.66	6.50	
52 Cr	72	1	2.201 ppb	0.97	2.60	
55 Mn	72	1	1.108 ppb	2.36	1.30	
57 Fe	72	1	59.600 ppb	0.37	65.00	
59 Co	72	1	1.141 ppb	1.05	1.30	
60 Ni	72	1	2.243 ppb	3.32	2.60	
63 Cu	72	1	2.253 ppb	1.51	2.60	
66 Zn	72	1	10.830 ppb	0.41	13.00	
75 As	72	1	5.343 ppb	0.50	6.50	
78 Se	72	1	5.135 ppb	9.29	6.50	
93 Nb	115	1	45.330 ppb	1.88	52.00	
95 Mo	115	1	2.039 ppb	1.44	2.60	
105 Pd	115	1	0.912 ppb	2.34	1.30	
107 Ag	115	1	5.456 ppb	0.83	6.50	
111 Cd	115	1	1.077 ppb	0.70	1.30	
118 Sn	115	1	10.450 ppb	1.18	13.00	
121 Sb	115	1	2.050 ppb	3.07	2.60	
137 Ba	115	1	1.058 ppb	3.06	1.30	
182 W	165	1	5.046 ppb	1.11	6.50	
195 Pt	165	1	1.029 ppb	1.39	1.30	
205 Tl	165	1	1.132 ppb	1.60	1.30	
208 Pb	165	1	1.132 ppb	2.63	1.30	
232 Th	165	1	1.129 ppb	2.33	2.60	
238 U	165	1	1.129 ppb	0.84	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	557434	1.84	552567	100.9	30 - 120	
45 Sc	1	2264948	1.62	2258491	100.3	30 - 120	
72 Ge	1	1021784	0.37	1048475	97.5	30 - 120	
115 In	1	2746382	0.24	2762482	99.4	30 - 120	
165 Ho	1	4233557	0.86	4237360	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\AG100609.B\025CALB.D\025CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: LRD

Date: 10/06/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\070CALB.D\070CALB.D#
Date Acquired: Oct 6 2009 08:48 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:46 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	387115	2.32
24	Mg	6	1	6855	5.07
27	Al	45	1	22398	1.00
39	K	45	1	295741	0.59
43	Ca	45	1	20	50.37
51	V	72	1	7	1436.20
52	Cr	72	1	3621	7.56
55	Mn	72	1	710	7.22
57	Fe	72	1	620	7.81
59	Co	72	1	97	38.35
60	Ni	72	1	330	104.47
63	Cu	72	1	613	8.09
66	Zn	72	1	660	4.76
75	As	72	1	51	19.45
78	Se	72	1	610	14.32
93	Nb	115	1	13143	15.13
95	Mo	115	1	57	44.41
105	Pd	115	1	37	103.72
107	Ag	115	1	190	14.84
111	Cd	115	1	2	173.21
118	Sn	115	1	300	16.58
121	Sb	115	1	92	21.90
137	Ba	115	1	34	29.35
182	W	165	1	713	7.61
195	Pt	165	1	170	16.33
205	Tl	165	1	96	7.75
208	Pb	165	1	544	8.94
232	Th	165	1	190	15.14
238	U	165	1	22	53.27

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	515272	0.73
45	Sc	1	1864320	0.50
72	Ge	1	859327	0.79
115	In	1	2380008	1.24
165	Ho	1	3819194	1.07

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\AG100609.B\071ICAL.D\071ICAL.D#
Date Acquired: Oct 6 2009 08:51 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:49 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	58564	0.60
23	Na	6	1	40434140	0.48
24	Mg	6	1	25212150	0.40
27	Al	45	1	23115470	0.53
39	K	45	1	39135420	1.52
43	Ca	45	1	99462	1.74
51	V	72	1	1061463	1.59
52	Cr	72	1	1043683	1.63
55	Mn	72	1	1188829	1.48
57	Fe	72	1	2717619	1.02
59	Co	72	1	1303002	1.66
60	Ni	72	1	289547	2.05
63	Cu	72	1	684096	1.59
66	Zn	72	1	150729	1.33
75	As	72	1	128229	1.21
78	Se	72	1	23454	0.88
93	Nb	115	1	3565922	1.03
95	Mo	115	1	351897	1.40
105	Pd	115	1	448607	1.01
107	Ag	115	1	983304	1.44
111	Cd	115	1	197038	1.58
118	Sn	115	1	559609	1.00
121	Sb	115	1	638610	1.15
137	Ba	115	1	280309	1.10
182	W	165	1	926142	0.54
195	Pt	165	1	615314	0.22
205	Tl	165	1	2045973	0.96
208	Pb	165	1	2754356	0.31
232	Th	165	1	2951977	1.31
238	U	165	1	3040935	1.04

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478406	0.32	515272	92.8	30 - 120	
45	Sc	1	1739359	0.31	1864320	93.3	30 - 120	
72	Ge	1	792158	1.26	859327	92.2	30 - 120	
115	In	1	2191276	0.76	2380008	92.1	30 - 120	
165	Ho	1	3585439	0.61	3819194	93.9	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\AG100609.B\070CALB.D\070CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\072_CCV.D\072_CCV.D#
Date Acquired: Oct 6 2009 08:54 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	50.39	ppb	1.54	50	100.8	90 - 110	
23 Na	6	1	4975.00	ppb	0.61	5000	99.5	90 - 110	
24 Mg	6	1	4999.00	ppb	0.81	5000	100.0	90 - 110	
27 Al	45	1	4994.00	ppb	1.23	5000	99.9	90 - 110	
39 K	45	1	5033.00	ppb	0.91	5000	100.7	90 - 110	
43 Ca	45	1	4999.00	ppb	1.44	5000	100.0	90 - 110	
51 V	72	1	49.17	ppb	1.06	50	98.3	90 - 110	
52 Cr	72	1	50.03	ppb	0.34	50	100.1	90 - 110	
55 Mn	72	1	49.55	ppb	0.89	50	99.1	90 - 110	
57 Fe	72	1	5078.00	ppb	0.82	5000	101.6	90 - 110	
59 Co	72	1	49.35	ppb	0.83	50	98.7	90 - 110	
60 Ni	72	1	50.12	ppb	0.28	50	100.2	90 - 110	
63 Cu	72	1	50.49	ppb	0.86	50	101.0	90 - 110	
66 Zn	72	1	49.49	ppb	0.33	50	99.0	90 - 110	
75 As	72	1	50.05	ppb	0.33	50	100.1	90 - 110	
78 Se	72	1	51.31	ppb	1.63	50	102.6	90 - 110	
93 Nb	115	1	101.80	ppb	0.78	100	101.8	90 - 110	
95 Mo	115	1	49.44	ppb	0.97	50	98.9	90 - 110	
105 Pd	115	1	49.45	ppb	1.50	50	98.9	90 - 110	
107 Ag	115	1	50.66	ppb	1.66	50	101.3	90 - 110	
111 Cd	115	1	50.24	ppb	1.23	50	100.5	90 - 110	
118 Sn	115	1	49.51	ppb	1.37	50	99.0	90 - 110	
121 Sb	115	1	49.71	ppb	0.97	50	99.4	90 - 110	
137 Ba	115	1	49.57	ppb	1.92	50	99.1	90 - 110	
182 W	165	1	48.32	ppb	0.67	50	96.6	90 - 110	
195 Pt	165	1	49.67	ppb	1.05	50	99.3	90 - 110	
205 Tl	165	1	50.72	ppb	0.96	50	101.4	90 - 110	
208 Pb	165	1	50.95	ppb	0.79	50	101.9	90 - 110	
232 Th	165	1	51.04	ppb	0.82	50	102.1	90 - 110	
238 U	165	1	51.06	ppb	0.54	50	102.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	479600	0.49	515272	93.1	30 - 120	
45 Sc	1	1746174	0.86	1864320	93.7	30 - 120	
72 Ge	1	800207	0.73	859327	93.1	30 - 120	
115 In	1	2222355	0.75	2380008	93.4	30 - 120	
165 Ho	1	3635251	0.22	3819194	95.2	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\073_CCB.D\073_CCB.D#
Date Acquired: Oct 6 2009 08:57 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.017	ppb	99.88	1.00	
23 Na	6	1	-28.100	ppb	3.05	20.00	
24 Mg	6	1	-1.108	ppb	9.65	20.00	
27 Al	45	1	-5.315	ppb	0.94	20.00	
39 K	45	1	-2.692	ppb	36.13	20.00	
43 Ca	45	1	2.398	ppb	85.74	20.00	
51 V	72	1	0.001	ppb	3312.00	1.00	
52 Cr	72	1	0.007	ppb	76.26	1.00	
55 Mn	72	1	0.006	ppb	70.14	1.00	
57 Fe	72	1	0.911	ppb	90.12	20.00	
59 Co	72	1	0.009	ppb	24.79	1.00	
60 Ni	72	1	-0.051	ppb	19.88	1.00	
63 Cu	72	1	-0.007	ppb	96.71	1.00	
66 Zn	72	1	0.032	ppb	54.34	10.00	
75 As	72	1	0.014	ppb	63.93	1.00	
78 Se	72	1	0.287	ppb	153.52	1.00	
93 Nb	115	1	3.567	ppb	16.05	2.00	Fail
95 Mo	115	1	0.032	ppb	16.33	1.00	
105 Pd	115	1	0.028	ppb	4.51	1.00	
107 Ag	115	1	0.005	ppb	74.70	1.00	
111 Cd	115	1	0.007	ppb	68.18	1.00	
118 Sn	115	1	0.067	ppb	29.53	10.00	
121 Sb	115	1	0.193	ppb	8.68	1.00	
137 Ba	115	1	0.014	ppb	33.39	1.00	
182 W	165	1	0.042	ppb	34.43	5.00	
195 Pt	165	1	0.009	ppb	109.69	1.00	
205 Tl	165	1	0.027	ppb	8.92	1.00	
208 Pb	165	1	0.004	ppb	89.10	1.00	
232 Th	165	1	0.175	ppb	15.33	2.00	
238 U	165	1	0.016	ppb	3.60	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	490702	0.36	515272	95.2	30 - 120	
45 Sc	1	1774190	1.23	1864320	95.2	30 - 120	
72 Ge	1	833379	1.09	859327	97.0	30 - 120	
115 In	1	2298439	0.93	2380008	96.6	30 - 120	
165 Ho	1	3663681	0.84	3819194	95.9	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\074WASH.D\074WASH.D#
Date Acquired: Oct 6 2009 09:00 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.960 ppb	10.91	1.30	
23 Na	6	1	24.020 ppb	2.19	65.00	
24 Mg	6	1	55.240 ppb	1.03	65.00	
27 Al	45	1	27.520 ppb	1.92	39.00	
39 K	45	1	106.200 ppb	0.46	130.00	
43 Ca	45	1	62.960 ppb	11.46	65.00	
51 V	72	1	5.120 ppb	1.28	6.50	
52 Cr	72	1	2.140 ppb	3.97	2.60	
55 Mn	72	1	1.034 ppb	2.60	1.30	
57 Fe	72	1	57.280 ppb	2.73	65.00	
59 Co	72	1	1.065 ppb	4.21	1.30	
60 Ni	72	1	2.068 ppb	6.46	2.60	
63 Cu	72	1	2.196 ppb	4.58	2.60	
66 Zn	72	1	10.750 ppb	0.38	13.00	
75 As	72	1	5.165 ppb	0.74	6.50	
78 Se	72	1	5.780 ppb	6.29	6.50	
93 Nb	115	1	44.500 ppb	2.04	52.00	
95 Mo	115	1	2.073 ppb	1.94	2.60	
105 Pd	115	1	0.903 ppb	3.00	1.30	
107 Ag	115	1	5.497 ppb	0.32	6.50	
111 Cd	115	1	1.093 ppb	1.42	1.30	
118 Sn	115	1	10.540 ppb	0.66	13.00	
121 Sb	115	1	2.071 ppb	0.58	2.60	
137 Ba	115	1	1.053 ppb	4.79	1.30	
182 W	165	1	5.044 ppb	1.20	6.50	
195 Pt	165	1	1.008 ppb	3.41	1.30	
205 Tl	165	1	1.139 ppb	2.85	1.30	
208 Pb	165	1	1.138 ppb	2.77	1.30	
232 Th	165	1	2.303 ppb	2.30	2.60	
238 U	165	1	1.134 ppb	0.89	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	490958	0.16	515272	95.3	30 - 120	
45 Sc	1	1789263	0.75	1864320	96.0	30 - 120	
72 Ge	1	816377	0.56	859327	95.0	30 - 120	
115 In	1	2284882	0.67	2380008	96.0	30 - 120	
165 Ho	1	3660809	0.30	3819194	95.9	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\AG100609.B\070CALB.D\070CALB.D#

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

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\091_CCV.D\091_CCV.D#
Date Acquired: Oct 6 2009 09:50 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.39	ppb	1.31	50	98.8	90 - 110	
23 Na	6	1	5077.00	ppb	0.16	5000	101.5	90 - 110	
24 Mg	6	1	5046.00	ppb	1.47	5000	100.9	90 - 110	
27 Al	45	1	4987.00	ppb	1.00	5000	99.7	90 - 110	
39 K	45	1	5094.00	ppb	0.62	5000	101.9	90 - 110	
43 Ca	45	1	4991.00	ppb	1.20	5000	99.8	90 - 110	
51 V	72	1	49.90	ppb	1.31	50	99.8	90 - 110	
52 Cr	72	1	51.05	ppb	0.74	50	102.1	90 - 110	
55 Mn	72	1	50.31	ppb	1.33	50	100.6	90 - 110	
57 Fe	72	1	5189.00	ppb	0.88	5000	103.8	90 - 110	
59 Co	72	1	50.66	ppb	0.65	50	101.3	90 - 110	
60 Ni	72	1	50.94	ppb	2.21	50	101.9	90 - 110	
63 Cu	72	1	51.86	ppb	1.07	50	103.7	90 - 110	
66 Zn	72	1	50.31	ppb	0.54	50	100.6	90 - 110	
75 As	72	1	50.34	ppb	1.85	50	100.7	90 - 110	
78 Se	72	1	49.09	ppb	4.04	50	98.2	90 - 110	
93 Nb	115	1	92.18	ppb	2.63	100	92.2	90 - 110	
95 Mo	115	1	49.43	ppb	3.13	50	98.9	90 - 110	
105 Pd	115	1	49.67	ppb	1.60	50	99.3	90 - 110	
107 Ag	115	1	50.78	ppb	1.98	50	101.6	90 - 110	
111 Cd	115	1	49.36	ppb	2.46	50	98.7	90 - 110	
118 Sn	115	1	49.25	ppb	1.14	50	98.5	90 - 110	
121 Sb	115	1	48.46	ppb	1.18	50	96.9	90 - 110	
137 Ba	115	1	49.44	ppb	2.30	50	98.9	90 - 110	
182 W	165	1	48.42	ppb	0.93	50	96.8	90 - 110	
195 Pt	165	1	49.70	ppb	0.67	50	99.4	90 - 110	
205 Tl	165	1	50.97	ppb	1.49	50	101.9	90 - 110	
208 Pb	165	1	51.30	ppb	1.24	50	102.6	90 - 110	
232 Th	165	1	51.01	ppb	1.37	50	102.0	90 - 110	
238 U	165	1	51.55	ppb	0.51	50	103.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	453130	1.18	515272	87.9	30 - 120	
45 Sc	1	1660478	0.52	1864320	89.1	30 - 120	
72 Ge	1	753054	1.58	859327	87.6	30 - 120	
115 In	1	2152916	0.74	2380008	90.5	30 - 120	
165 Ho	1	3523081	0.40	3819194	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\092_CCB.D\092_CCB.D#
Date Acquired: Oct 6 2009 09:53 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.006	ppb	173.28	1.00	
23 Na	6	1	12.180	ppb	17.30	20.00	
24 Mg	6	1	1.043	ppb	19.03	20.00	
27 Al	45	1	-5.614	ppb	1.99	20.00	
39 K	45	1	1.769	ppb	62.69	20.00	
43 Ca	45	1	1.938	ppb	110.73	20.00	
51 V	72	1	-0.001	ppb	2870.20	1.00	
52 Cr	72	1	0.005	ppb	318.73	1.00	
55 Mn	72	1	0.002	ppb	111.26	1.00	
57 Fe	72	1	0.892	ppb	29.45	20.00	
59 Co	72	1	0.007	ppb	90.76	1.00	
60 Ni	72	1	-0.059	ppb	27.01	1.00	
63 Cu	72	1	0.009	ppb	93.24	1.00	
66 Zn	72	1	0.058	ppb	78.19	10.00	
75 As	72	1	0.010	ppb	48.54	1.00	
78 Se	72	1	0.343	ppb	105.79	1.00	
93 Nb	115	1	2.769	ppb	15.21	2.00	Fail
95 Mo	115	1	0.021	ppb	32.06	1.00	
105 Pd	115	1	0.015	ppb	64.01	1.00	
107 Ag	115	1	-0.004	ppb	53.84	1.00	
111 Cd	115	1	0.010	ppb	35.91	1.00	
118 Sn	115	1	0.051	ppb	4.99	10.00	
121 Sb	115	1	0.151	ppb	5.61	1.00	
137 Ba	115	1	0.012	ppb	74.88	1.00	
182 W	165	1	0.031	ppb	14.72	5.00	
195 Pt	165	1	0.008	ppb	125.38	1.00	
205 Tl	165	1	0.025	ppb	10.25	1.00	
208 Pb	165	1	0.002	ppb	42.38	1.00	
232 Th	165	1	0.177	ppb	17.36	2.00	
238 U	165	1	0.014	ppb	5.99	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	462083	0.44	515272	89.7	30 - 120	
45 Sc	1	1676264	0.61	1864320	89.9	30 - 120	
72 Ge	1	778608	0.31	859327	90.6	30 - 120	
115 In	1	2204457	1.24	2380008	92.6	30 - 120	
165 Ho	1	3537845	0.70	3819194	92.6	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\093WASH.D\093WASH.D#
Date Acquired: Oct 6 2009 09:56 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.894 ppb	4.75	1.30	
23 Na	6	1	48.890 ppb	3.33	65.00	
24 Mg	6	1	54.820 ppb	0.76	65.00	
27 Al	45	1	27.510 ppb	1.66	39.00	
39 K	45	1	109.900 ppb	1.99	130.00	
43 Ca	45	1	58.770 ppb	13.15	65.00	
51 V	72	1	5.234 ppb	1.62	6.50	
52 Cr	72	1	2.148 ppb	3.13	2.60	
55 Mn	72	1	1.072 ppb	4.05	1.30	
57 Fe	72	1	58.150 ppb	0.45	65.00	
59 Co	72	1	1.108 ppb	4.81	1.30	
60 Ni	72	1	2.269 ppb	7.46	2.60	
63 Cu	72	1	2.233 ppb	3.84	2.60	
66 Zn	72	1	10.730 ppb	2.13	13.00	
75 As	72	1	5.310 ppb	2.74	6.50	
78 Se	72	1	6.310 ppb	14.63	6.50	
93 Nb	115	1	41.500 ppb	1.96	52.00	
95 Mo	115	1	2.036 ppb	2.82	2.60	
105 Pd	115	1	0.899 ppb	8.95	1.30	
107 Ag	115	1	5.223 ppb	1.75	6.50	
111 Cd	115	1	1.041 ppb	6.14	1.30	
118 Sn	115	1	10.210 ppb	1.20	13.00	
121 Sb	115	1	1.999 ppb	2.39	2.60	
137 Ba	115	1	1.041 ppb	1.11	1.30	
182 W	165	1	4.924 ppb	1.18	6.50	
195 Pt	165	1	0.990 ppb	4.00	1.30	
205 Tl	165	1	1.107 ppb	1.13	1.30	
208 Pb	165	1	1.098 ppb	2.01	1.30	
232 Th	165	1	2.321 ppb	0.88	2.60	
238 U	165	1	1.126 ppb	0.68	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	463056	1.34	515272	89.9	30 - 120	
45 Sc	1	1683484	0.73	1864320	90.3	30 - 120	
72 Ge	1	756406	1.90	859327	88.0	30 - 120	
115 In	1	2203846	0.89	2380008	92.6	30 - 120	
165 Ho	1	3555854	0.63	3819194	93.1	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\AG100609.B\070CALB.D\070CALB.D#

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

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\094ICSA.D\094ICSA.D#
Date Acquired: Oct 6 2009 09:59 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSA
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:52 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	173.14	1.00	
23	Na	6	1	104500.00 ppb	0.43	100000.00	
24	Mg	6	1	102100.00 ppb	0.91	100000.00	
27	Al	45	1	99240.00 ppb	1.58	100000.00	
39	K	45	1	100900.00 ppb	1.07	100000.00	
43	Ca	45	1	104600.00 ppb	1.77	100000.00	
51	V	72	1	-0.56 ppb	9.48	1.00	
52	Cr	72	1	0.70 ppb	2.29	1.00	
55	Mn	72	1	4.16 ppb	3.24	1.00	
57	Fe	72	1	94490.00 ppb	0.24	100000.00	
59	Co	72	1	1.47 ppb	3.25	1.00	
60	Ni	72	1	1.69 ppb	7.41	1.00	
63	Cu	72	1	1.49 ppb	0.76	1.00	
66	Zn	72	1	3.18 ppb	0.37	10.00	
75	As	72	1	0.56 ppb	4.43	1.00	
78	Se	72	1	0.41 ppb	70.08	1.00	
93	Nb	115	1	3.38 ppb	16.06	2.00	
95	Mo	115	1	2020.00 ppb	1.46	2000.00	
105	Pd	115	1	0.04 ppb	22.10	1.00	
107	Ag	115	1	0.05 ppb	20.78	1.00	
111	Cd	115	1	3.02 ppb	1.55	1.00	
118	Sn	115	1	0.16 ppb	7.83	10.00	
121	Sb	115	1	0.29 ppb	5.36	1.00	
137	Ba	115	1	0.06 ppb	22.58	1.00	
182	W	165	1	0.13 ppb	1.10	5.00	
195	Pt	165	1	0.00 ppb	8464.20	1.00	
205	Tl	165	1	0.03 ppb	29.04	1.00	
208	Pb	165	1	0.10 ppb	5.05	1.00	
232	Th	165	1	0.03 ppb	22.69	2.00	
238	U	165	1	0.01 ppb	6.90	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	411279	0.79	515272	79.8	30 - 120	
45	Sc	1	1557385	1.19	1864320	83.5	30 - 120	
72	Ge	1	707511	0.81	859327	82.3	30 - 120	
115	In	1	1919072	1.31	2380008	80.6	30 - 120	
165	Ho	1	3153164	0.34	3819194	82.6	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\AG100609.B\070CALB.D\070CALB.D#

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

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\095ICSB.D\095ICSB.D#
Date Acquired: Oct 6 2009 10:02 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSAB
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:52 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	103.20	1.21	100	103.2	80 - 120	
23 Na	6	1	117500.00	0.84	110000	106.8	80 - 120	
24 Mg	6	1	114700.00	0.34	110000	104.3	80 - 120	
27 Al	45	1	106900.00	1.80	110000	97.2	80 - 120	
39 K	45	1	109900.00	1.54	110000	99.9	80 - 120	
43 Ca	45	1	114100.00	0.76	110000	103.7	80 - 120	
51 V	72	1	101.00	0.05	100	101.0	80 - 120	
52 Cr	72	1	100.80	0.18	100	100.8	80 - 120	
55 Mn	72	1	102.60	0.81	100	102.6	80 - 120	
57 Fe	72	1	104700.00	0.82	110000	95.2	80 - 120	
59 Co	72	1	98.38	1.62	100	98.4	80 - 120	
60 Ni	72	1	94.94	0.32	100	94.9	80 - 120	
63 Cu	72	1	94.71	0.40	100	94.7	80 - 120	
66 Zn	72	1	96.94	0.10	100	96.9	80 - 120	
75 As	72	1	100.20	0.47	100	100.2	80 - 120	
78 Se	72	1	104.70	0.70	100	104.7	80 - 120	
93 Nb	115	1	196.40	0.73	200	98.2	80 - 120	
95 Mo	115	1	2109.00	0.24	2100	100.4	80 - 120	
105 Pd	115	1	93.68	0.73	100	93.7	80 - 120	
107 Ag	115	1	88.34	5.53	100	88.3	80 - 120	
111 Cd	115	1	96.13	1.27	100	96.1	80 - 120	
118 Sn	115	1	98.53	0.33	100	98.5	80 - 120	
121 Sb	115	1	99.25	0.60	100	99.3	80 - 120	
137 Ba	115	1	99.12	0.78	100	99.1	80 - 120	
182 W	165	1	98.70	1.19	100	98.7	80 - 120	
195 Pt	165	1	94.81	0.66	100	94.8	80 - 120	
205 Tl	165	1	96.06	2.04	100	96.1	80 - 120	
208 Pb	165	1	95.24	0.49	100	95.2	80 - 120	
232 Th	165	1	99.42	0.56	100	99.4	80 - 120	
238 U	165	1	100.20	0.72	100	100.2	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389629	1.01	515272	75.6	30 - 120	
45 Sc	1	1533086	0.92	1864320	82.2	30 - 120	
72 Ge	1	689451	0.84	859327	80.2	30 - 120	
115 In	1	1904690	0.40	2380008	80.0	30 - 120	
165 Ho	1	3089600	0.69	3819194	80.9	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\096WASH.D\096WASH.D#
Date Acquired: Oct 6 2009 10:05 pm
Operator: TEL
Sample Name: WASH
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	173.22	1.30	
23 Na	6	1	16.560 ppb	36.53	65.00	
24 Mg	6	1	10.410 ppb	17.91	65.00	
27 Al	45	1	7.239 ppb	23.80	39.00	
39 K	45	1	12.760 ppb	26.93	130.00	
43 Ca	45	1	18.150 ppb	6.53	65.00	
51 V	72	1	0.000 ppb	16710.00	6.50	
52 Cr	72	1	-0.005 ppb	368.81	2.60	
55 Mn	72	1	0.015 ppb	29.62	1.30	
57 Fe	72	1	12.590 ppb	12.08	65.00	
59 Co	72	1	0.008 ppb	51.92	1.30	
60 Ni	72	1	-0.080 ppb	16.18	2.60	
63 Cu	72	1	0.008 ppb	127.10	2.60	
66 Zn	72	1	0.101 ppb	27.61	13.00	
75 As	72	1	0.023 ppb	35.64	6.50	
78 Se	72	1	0.237 ppb	35.10	6.50	
93 Nb	115	1	4.295 ppb	17.78	52.00	
95 Mo	115	1	1.106 ppb	1.85	2.60	
105 Pd	115	1	0.004 ppb	59.60	1.30	
107 Ag	115	1	0.001 ppb	214.12	6.50	
111 Cd	115	1	0.007 ppb	23.06	1.30	
118 Sn	115	1	0.073 ppb	27.66	13.00	
121 Sb	115	1	0.129 ppb	6.30	2.60	
137 Ba	115	1	0.009 ppb	15.60	1.30	
182 W	165	1	0.061 ppb	3.87	6.50	
195 Pt	165	1	0.006 ppb	74.10	1.30	
205 Tl	165	1	0.020 ppb	9.66	1.30	
208 Pb	165	1	0.000 ppb	688.94	1.30	
232 Th	165	1	0.263 ppb	16.28	2.60	
238 U	165	1	0.021 ppb	8.78	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	450485	0.29	515272	87.4	30 - 120	
45 Sc	1	1659558	1.19	1864320	89.0	30 - 120	
72 Ge	1	762617	2.77	859327	88.7	30 - 120	
115 In	1	2188467	1.02	2380008	92.0	30 - 120	
165 Ho	1	3478235	0.58	3819194	91.1	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\097_CCV.D\097_CCV.D#
Date Acquired: Oct 6 2009 10:08 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.75	ppb	1.50	50	99.5	90 - 110	
23 Na	6	1	5079.00	ppb	0.68	5000	101.6	90 - 110	
24 Mg	6	1	5099.00	ppb	1.32	5000	102.0	90 - 110	
27 Al	45	1	4955.00	ppb	1.42	5000	99.1	90 - 110	
39 K	45	1	5078.00	ppb	1.27	5000	101.6	90 - 110	
43 Ca	45	1	5060.00	ppb	1.15	5000	101.2	90 - 110	
51 V	72	1	50.42	ppb	0.59	50	100.8	90 - 110	
52 Cr	72	1	51.34	ppb	1.10	50	102.7	90 - 110	
55 Mn	72	1	51.06	ppb	0.72	50	102.1	90 - 110	
57 Fe	72	1	5245.00	ppb	0.22	5000	104.9	90 - 110	
59 Co	72	1	51.58	ppb	0.48	50	103.2	90 - 110	
60 Ni	72	1	52.59	ppb	1.33	50	105.2	90 - 110	
63 Cu	72	1	52.44	ppb	0.15	50	104.9	90 - 110	
66 Zn	72	1	49.91	ppb	0.31	50	99.8	90 - 110	
75 As	72	1	51.48	ppb	0.58	50	103.0	90 - 110	
78 Se	72	1	52.92	ppb	3.65	50	105.8	90 - 110	
93 Nb	115	1	100.40	ppb	1.60	100	100.4	90 - 110	
95 Mo	115	1	50.00	ppb	0.67	50	100.0	90 - 110	
105 Pd	115	1	50.27	ppb	0.48	50	100.5	90 - 110	
107 Ag	115	1	51.04	ppb	0.84	50	102.1	90 - 110	
111 Cd	115	1	49.29	ppb	0.51	50	98.6	90 - 110	
118 Sn	115	1	49.13	ppb	0.45	50	98.3	90 - 110	
121 Sb	115	1	48.75	ppb	0.67	50	97.5	90 - 110	
137 Ba	115	1	49.54	ppb	0.59	50	99.1	90 - 110	
182 W	165	1	48.05	ppb	1.28	50	96.1	90 - 110	
195 Pt	165	1	49.73	ppb	1.51	50	99.5	90 - 110	
205 Tl	165	1	51.57	ppb	0.33	50	103.1	90 - 110	
208 Pb	165	1	51.34	ppb	1.54	50	102.7	90 - 110	
232 Th	165	1	51.16	ppb	1.17	50	102.3	90 - 110	
238 U	165	1	51.40	ppb	0.70	50	102.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	439714	1.12	515272	85.3	30 - 120	
45 Sc	1	1662666	0.90	1864320	89.2	30 - 120	
72 Ge	1	744576	1.25	859327	86.6	30 - 120	
115 In	1	2134363	0.52	2380008	89.7	30 - 120	
165 Ho	1	3441729	1.08	3819194	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\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\070CALB.D\070CALB.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\AG100609.B\098_CCB.D\098_CCB.D#
Date Acquired: Oct 6 2009 10:11 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.006	ppb	173.17	1.00	
23 Na	6	1	-29.320	ppb	1.57	20.00	
24 Mg	6	1	-0.324	ppb	76.82	20.00	
27 Al	45	1	-4.605	ppb	3.37	20.00	
39 K	45	1	-2.043	ppb	21.37	20.00	
43 Ca	45	1	1.229	ppb	222.86	20.00	
51 V	72	1	0.022	ppb	148.07	1.00	
52 Cr	72	1	0.017	ppb	262.35	1.00	
55 Mn	72	1	0.000	ppb	596.26	1.00	
57 Fe	72	1	2.564	ppb	16.14	20.00	
59 Co	72	1	0.003	ppb	129.47	1.00	
60 Ni	72	1	-0.062	ppb	20.79	1.00	
63 Cu	72	1	-0.004	ppb	283.57	1.00	
66 Zn	72	1	0.022	ppb	73.15	10.00	
75 As	72	1	0.013	ppb	24.86	1.00	
78 Se	72	1	0.553	ppb	118.32	1.00	
93 Nb	115	1	3.306	ppb	14.77	2.00	Fail
95 Mo	115	1	0.126	ppb	18.78	1.00	
105 Pd	115	1	0.021	ppb	35.25	1.00	
107 Ag	115	1	-0.005	ppb	61.95	1.00	
111 Cd	115	1	0.010	ppb	26.15	1.00	
118 Sn	115	1	0.045	ppb	24.58	10.00	
121 Sb	115	1	0.165	ppb	6.45	1.00	
137 Ba	115	1	0.012	ppb	3.66	1.00	
182 W	165	1	0.053	ppb	26.35	5.00	
195 Pt	165	1	0.005	ppb	39.10	1.00	
205 Tl	165	1	0.023	ppb	10.65	1.00	
208 Pb	165	1	0.005	ppb	60.62	1.00	
232 Th	165	1	0.164	ppb	11.71	2.00	
238 U	165	1	0.016	ppb	7.16	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	452930	0.86	515272	87.9	30 - 120	
45 Sc	1	1682993	0.55	1864320	90.3	30 - 120	
72 Ge	1	765091	2.14	859327	89.0	30 - 120	
115 In	1	2192674	1.13	2380008	92.1	30 - 120	
165 Ho	1	3481617	0.30	3819194	91.2	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\099WASH.D\099WASH.D#
Date Acquired: Oct 6 2009 10:14 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	1.127 ppb	8.31	1.30	
23 Na	6	1	20.620 ppb	7.22	65.00	
24 Mg	6	1	54.480 ppb	1.40	65.00	
27 Al	45	1	27.460 ppb	3.31	39.00	
39 K	45	1	106.300 ppb	1.46	130.00	
43 Ca	45	1	57.060 ppb	6.00	65.00	
51 V	72	1	5.167 ppb	1.70	6.50	
52 Cr	72	1	2.211 ppb	2.77	2.60	
55 Mn	72	1	1.031 ppb	1.85	1.30	
57 Fe	72	1	56.700 ppb	1.00	65.00	
59 Co	72	1	1.067 ppb	1.07	1.30	
60 Ni	72	1	2.216 ppb	7.09	2.60	
63 Cu	72	1	2.210 ppb	2.61	2.60	
66 Zn	72	1	10.430 ppb	0.87	13.00	
75 As	72	1	5.213 ppb	5.02	6.50	
78 Se	72	1	5.660 ppb	17.44	6.50	
93 Nb	115	1	44.260 ppb	3.34	52.00	
95 Mo	115	1	2.087 ppb	2.17	2.60	
105 Pd	115	1	0.901 ppb	4.28	1.30	
107 Ag	115	1	5.368 ppb	0.72	6.50	
111 Cd	115	1	1.020 ppb	0.12	1.30	
118 Sn	115	1	10.280 ppb	0.88	13.00	
121 Sb	115	1	2.029 ppb	2.69	2.60	
137 Ba	115	1	1.069 ppb	0.90	1.30	
182 W	165	1	4.942 ppb	2.96	6.50	
195 Pt	165	1	1.004 ppb	4.95	1.30	
205 Tl	165	1	1.114 ppb	2.02	1.30	
208 Pb	165	1	1.106 ppb	0.91	1.30	
232 Th	165	1	2.292 ppb	2.48	2.60	
238 U	165	1	1.116 ppb	1.12	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	449435	0.56	515272	87.2	30 - 120	
45 Sc	1	1701866	0.82	1864320	91.3	30 - 120	
72 Ge	1	763212	0.90	859327	88.8	30 - 120	
115 In	1	2173073	0.32	2380008	91.3	30 - 120	
165 Ho	1	3469270	0.42	3819194	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\AG100609.B\070CALB.D\070CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: _____

Date: 10/7/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\164CALB.D\164CALB.D#
Date Acquired: Oct 7 2009 01:26 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 01:24 am
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	218291	2.12
24	Mg	6	1	1530	6.77
27	Al	45	1	16663	0.31
39	K	45	1	273799	2.17
43	Ca	45	1	27	22.43
51	V	72	1	83	223.90
52	Cr	72	1	3140	3.71
55	Mn	72	1	520	11.33
57	Fe	72	1	657	19.55
59	Co	72	1	77	40.57
60	Ni	72	1	127	9.92
63	Cu	72	1	683	25.90
66	Zn	72	1	714	1.25
75	As	72	1	63	28.75
78	Se	72	1	773	5.51
93	Nb	115	1	7169	14.47
95	Mo	115	1	163	18.28
105	Pd	115	1	10	0.47
107	Ag	115	1	10	99.71
111	Cd	115	1	9	43.82
118	Sn	115	1	263	16.27
121	Sb	115	1	67	9.90
137	Ba	115	1	36	29.09
182	W	165	1	743	11.52
195	Pt	165	1	123	12.07
205	Tl	165	1	67	27.81
208	Pb	165	1	414	8.05
232	Th	165	1	297	5.47
238	U	165	1	21	39.43

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	439634	1.08
45	Sc	1	1729799	1.14
72	Ge	1	772743	0.87
115	In	1	2201847	0.47
165	Ho	1	3448774	0.33

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\AG100609.B\165ICAL.D\165ICAL.D#
Date Acquired: Oct 7 2009 01:29 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 01:27 am
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	50174	0.90
23	Na	6	1	35734848	0.12
24	Mg	6	1	22256000	0.57
27	Al	45	1	20879440	0.77
39	K	45	1	36913912	0.68
43	Ca	45	1	90806	2.24
51	V	72	1	978388	1.61
52	Cr	72	1	966811	1.26
55	Mn	72	1	1098769	2.01
57	Fe	72	1	2500922	1.01
59	Co	72	1	1197678	1.18
60	Ni	72	1	268890	0.20
63	Cu	72	1	640955	0.78
66	Zn	72	1	134703	0.31
75	As	72	1	117907	0.38
78	Se	72	1	21898	2.35
93	Nb	115	1	3347532	0.94
95	Mo	115	1	328073	1.96
105	Pd	115	1	417383	1.62
107	Ag	115	1	920355	2.07
111	Cd	115	1	179860	1.50
118	Sn	115	1	515007	0.83
121	Sb	115	1	570618	1.44
137	Ba	115	1	260733	1.10
182	W	165	1	821212	1.90
195	Pt	165	1	554298	0.67
205	Tl	165	1	1877919	0.55
208	Pb	165	1	2510608	0.16
232	Th	165	1	2715286	0.34
238	U	165	1	2776529	0.15

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	406364	0.68	439634	92.4	30 - 120	
45	Sc	1	1576066	0.86	1729799	91.1	30 - 120	
72	Ge	1	707867	1.04	772743	91.6	30 - 120	
115	In	1	2024033	0.78	2201847	91.9	30 - 120	
165	Ho	1	3252420	0.22	3448774	94.3	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\AG100609.B\164CALB.D\164CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\166_CCV.D\166_CCV.D#
Date Acquired: Oct 7 2009 01:32 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 01:30 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.33	ppb	0.44	50	98.7	90 - 110	
23 Na	6	1	4942.00	ppb	0.88	5000	98.8	90 - 110	
24 Mg	6	1	4973.00	ppb	0.39	5000	99.5	90 - 110	
27 Al	45	1	4989.00	ppb	1.29	5000	99.8	90 - 110	
39 K	45	1	5023.00	ppb	1.22	5000	100.5	90 - 110	
43 Ca	45	1	5031.00	ppb	0.69	5000	100.6	90 - 110	
51 V	72	1	49.19	ppb	0.32	50	98.4	90 - 110	
52 Cr	72	1	49.51	ppb	0.14	50	99.0	90 - 110	
55 Mn	72	1	49.45	ppb	0.97	50	98.9	90 - 110	
57 Fe	72	1	5102.00	ppb	1.35	5000	102.0	90 - 110	
59 Co	72	1	49.94	ppb	1.73	50	99.9	90 - 110	
60 Ni	72	1	50.43	ppb	1.32	50	100.9	90 - 110	
63 Cu	72	1	50.17	ppb	0.76	50	100.3	90 - 110	
66 Zn	72	1	49.62	ppb	1.14	50	99.2	90 - 110	
75 As	72	1	49.96	ppb	0.72	50	99.9	90 - 110	
78 Se	72	1	48.75	ppb	5.59	50	97.5	90 - 110	
93 Nb	115	1	101.10	ppb	0.23	100	101.1	90 - 110	
95 Mo	115	1	48.82	ppb	0.82	50	97.6	90 - 110	
105 Pd	115	1	49.12	ppb	0.31	50	98.2	90 - 110	
107 Ag	115	1	50.26	ppb	1.48	50	100.5	90 - 110	
111 Cd	115	1	49.08	ppb	1.06	50	98.2	90 - 110	
118 Sn	115	1	49.28	ppb	2.35	50	98.6	90 - 110	
121 Sb	115	1	49.56	ppb	0.74	50	99.1	90 - 110	
137 Ba	115	1	49.16	ppb	1.75	50	98.3	90 - 110	
182 W	165	1	48.99	ppb	1.23	50	98.0	90 - 110	
195 Pt	165	1	49.80	ppb	1.24	50	99.6	90 - 110	
205 Tl	165	1	50.90	ppb	1.66	50	101.8	90 - 110	
208 Pb	165	1	51.07	ppb	0.11	50	102.1	90 - 110	
232 Th	165	1	50.30	ppb	2.34	50	100.6	90 - 110	
238 U	165	1	50.66	ppb	1.80	50	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	414779	0.25	439634	94.3	30 - 120	
45 Sc	1	1589048	1.25	1729799	91.9	30 - 120	
72 Ge	1	712522	0.37	772743	92.2	30 - 120	
115 In	1	2064341	0.58	2201847	93.8	30 - 120	
165 Ho	1	3283010	0.69	3448774	95.2	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\AG100609.B\164CALB.D\164CALB.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\AG100609.B\167_CCB.D\167_CCB.D#
Date Acquired: Oct 7 2009 01:35 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 01:30 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.000	ppb	0.00	1.00	
23 Na	6	1	-4.957	ppb	6.04	20.00	
24 Mg	6	1	0.784	ppb	3.98	20.00	
27 Al	45	1	-3.531	ppb	1.71	20.00	
39 K	45	1	2.048	ppb	21.25	20.00	
43 Ca	45	1	-0.205	ppb	585.37	20.00	
51 V	72	1	-0.002	ppb	1244.20	1.00	
52 Cr	72	1	0.013	ppb	84.23	1.00	
55 Mn	72	1	0.006	ppb	175.42	1.00	
57 Fe	72	1	1.098	ppb	49.26	20.00	
59 Co	72	1	0.011	ppb	45.64	1.00	
60 Ni	72	1	0.018	ppb	88.11	1.00	
63 Cu	72	1	-0.027	ppb	38.86	1.00	
66 Zn	72	1	-0.048	ppb	45.07	10.00	
75 As	72	1	0.003	ppb	487.54	1.00	
78 Se	72	1	-0.265	ppb	252.66	1.00	
93 Nb	115	1	3.473	ppb	16.25	2.00	Fail
95 Mo	115	1	0.015	ppb	112.77	1.00	
105 Pd	115	1	0.037	ppb	20.15	1.00	
107 Ag	115	1	0.015	ppb	7.38	1.00	
111 Cd	115	1	0.009	ppb	73.77	1.00	
118 Sn	115	1	0.049	ppb	50.65	10.00	
121 Sb	115	1	0.193	ppb	9.88	1.00	
137 Ba	115	1	0.014	ppb	18.29	1.00	
182 W	165	1	0.039	ppb	20.83	5.00	
195 Pt	165	1	0.013	ppb	34.65	1.00	
205 Tl	165	1	0.025	ppb	19.67	1.00	
208 Pb	165	1	0.007	ppb	49.06	1.00	
232 Th	165	1	0.178	ppb	17.17	2.00	
238 U	165	1	0.017	ppb	9.08	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	427177	1.20	439634	97.2	30 - 120	
45 Sc	1	1627272	1.94	1729799	94.1	30 - 120	
72 Ge	1	756402	0.28	772743	97.9	30 - 120	
115 In	1	2153207	0.52	2201847	97.8	30 - 120	
165 Ho	1	3365194	0.11	3448774	97.6	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\AG100609.B\164CALB.D\164CALB.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\AG100609.B\168WASH.D\168WASH.D#
Date Acquired: Oct 7 2009 01:38 am
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 01:30 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.843 ppb	26.62	1.30	
23 Na	6	1	48.550 ppb	1.13	65.00	
24 Mg	6	1	55.380 ppb	0.63	65.00	
27 Al	45	1	30.520 ppb	1.89	39.00	
39 K	45	1	109.900 ppb	1.33	130.00	
43 Ca	45	1	56.140 ppb	22.44	65.00	
51 V	72	1	5.046 ppb	2.94	6.50	
52 Cr	72	1	2.111 ppb	3.28	2.60	
55 Mn	72	1	1.043 ppb	2.89	1.30	
57 Fe	72	1	56.260 ppb	2.42	65.00	
59 Co	72	1	1.074 ppb	2.64	1.30	
60 Ni	72	1	2.132 ppb	2.97	2.60	
63 Cu	72	1	2.110 ppb	1.73	2.60	
66 Zn	72	1	10.470 ppb	1.96	13.00	
75 As	72	1	4.998 ppb	1.49	6.50	
78 Se	72	1	4.911 ppb	19.51	6.50	
93 Nb	115	1	44.400 ppb	4.20	52.00	
95 Mo	115	1	1.880 ppb	2.27	2.60	
105 Pd	115	1	0.859 ppb	3.82	1.30	
107 Ag	115	1	5.393 ppb	1.68	6.50	
111 Cd	115	1	1.057 ppb	5.29	1.30	
118 Sn	115	1	10.140 ppb	2.49	13.00	
121 Sb	115	1	2.022 ppb	2.57	2.60	
137 Ba	115	1	1.063 ppb	6.03	1.30	
182 W	165	1	4.972 ppb	1.44	6.50	
195 Pt	165	1	1.050 ppb	5.07	1.30	
205 Tl	165	1	1.116 ppb	1.15	1.30	
208 Pb	165	1	1.109 ppb	1.05	1.30	
232 Th	165	1	2.254 ppb	0.98	2.60	
238 U	165	1	1.116 ppb	1.33	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	429859	1.04	439634	97.8	30 - 120	
45 Sc	1	1672479	1.09	1729799	96.7	30 - 120	
72 Ge	1	749351	1.21	772743	97.0	30 - 120	
115 In	1	2152066	0.86	2201847	97.7	30 - 120	
165 Ho	1	3368569	0.22	3448774	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\164CALB.D\164CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: _____

Date: 10/7/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\209CALB.D\209CALB.D#
Date Acquired: Oct 7 2009 03:39 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:37 am
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	183759	0.77
24	Mg	6	1	2504	2.72
27	Al	45	1	19711	3.45
39	K	45	1	265434	0.75
43	Ca	45	1	7	173.22
51	V	72	1	93	259.53
52	Cr	72	1	3117	7.50
55	Mn	72	1	493	30.29
57	Fe	72	1	747	13.22
59	Co	72	1	67	57.51
60	Ni	72	1	80	44.03
63	Cu	72	1	487	12.71
66	Zn	72	1	708	4.07
75	As	72	1	46	23.40
78	Se	72	1	690	6.15
93	Nb	115	1	6172	14.64
95	Mo	115	1	187	6.77
105	Pd	115	1	7	86.62
107	Ag	115	1	37	95.51
111	Cd	115	1	4	43.93
118	Sn	115	1	310	9.23
121	Sb	115	1	57	17.64
137	Ba	115	1	41	25.67
182	W	165	1	640	11.06
195	Pt	165	1	110	15.58
205	Tl	165	1	52	32.43
208	Pb	165	1	378	14.61
232	Th	165	1	237	20.29
238	U	165	1	29	23.83

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	423022	1.09
45	Sc	1	1641233	0.13
72	Ge	1	731921	0.95
115	In	1	2073602	0.57
165	Ho	1	3248591	0.30

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\AG100609.B\210ICAL.D\210ICAL.D#
Date Acquired: Oct 7 2009 03:42 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:40 am
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	47124	1.21
23	Na	6	1	34469912	1.41
24	Mg	6	1	21364830	1.74
27	Al	45	1	20060220	0.44
39	K	45	1	35425400	0.79
43	Ca	45	1	87810	0.82
51	V	72	1	931538	1.15
52	Cr	72	1	915081	0.32
55	Mn	72	1	1042725	0.58
57	Fe	72	1	2369288	1.27
59	Co	72	1	1142336	0.57
60	Ni	72	1	252744	0.97
63	Cu	72	1	595916	0.54
66	Zn	72	1	125539	0.20
75	As	72	1	109883	0.63
78	Se	72	1	20673	0.73
93	Nb	115	1	3129084	1.70
95	Mo	115	1	306406	1.76
105	Pd	115	1	389233	1.22
107	Ag	115	1	875808	1.77
111	Cd	115	1	169522	1.49
118	Sn	115	1	488445	1.98
121	Sb	115	1	539119	1.55
137	Ba	115	1	247693	2.26
182	W	165	1	770701	1.05
195	Pt	165	1	528285	0.46
205	Tl	165	1	1785100	0.32
208	Pb	165	1	2389859	1.80
232	Th	165	1	2574380	0.77
238	U	165	1	2644744	0.92

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	388298	1.15	423022	91.8	30 - 120	
45	Sc	1	1511565	0.18	1641233	92.1	30 - 120	
72	Ge	1	662011	0.39	731921	90.4	30 - 120	
115	In	1	1908330	1.13	2073602	92.0	30 - 120	
165	Ho	1	3106035	0.60	3248591	95.6	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\AG100609.B\209CALB.D\209CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\211_CCV.D\211_CCV.D#
Date Acquired: Oct 7 2009 03:45 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.43	ppb	4.17	50	98.9	90 - 110	
23 Na	6	1	4945.00	ppb	0.88	5000	98.9	90 - 110	
24 Mg	6	1	4967.00	ppb	1.21	5000	99.3	90 - 110	
27 Al	45	1	5039.00	ppb	0.42	5000	100.8	90 - 110	
39 K	45	1	5059.00	ppb	0.53	5000	101.2	90 - 110	
43 Ca	45	1	4981.00	ppb	2.60	5000	99.6	90 - 110	
51 V	72	1	48.43	ppb	0.94	50	96.9	90 - 110	
52 Cr	72	1	49.12	ppb	1.26	50	98.2	90 - 110	
55 Mn	72	1	49.40	ppb	1.47	50	98.8	90 - 110	
57 Fe	72	1	5062.00	ppb	1.11	5000	101.2	90 - 110	
59 Co	72	1	48.88	ppb	1.17	50	97.8	90 - 110	
60 Ni	72	1	50.32	ppb	2.38	50	100.6	90 - 110	
63 Cu	72	1	50.31	ppb	1.04	50	100.6	90 - 110	
66 Zn	72	1	49.63	ppb	0.72	50	99.3	90 - 110	
75 As	72	1	50.01	ppb	1.87	50	100.0	90 - 110	
78 Se	72	1	48.78	ppb	4.34	50	97.6	90 - 110	
93 Nb	115	1	102.10	ppb	0.85	100	102.1	90 - 110	
95 Mo	115	1	49.31	ppb	0.82	50	98.6	90 - 110	
105 Pd	115	1	49.77	ppb	1.18	50	99.5	90 - 110	
107 Ag	115	1	50.32	ppb	0.69	50	100.6	90 - 110	
111 Cd	115	1	49.82	ppb	2.35	50	99.6	90 - 110	
118 Sn	115	1	49.45	ppb	0.46	50	98.9	90 - 110	
121 Sb	115	1	49.54	ppb	0.93	50	99.1	90 - 110	
137 Ba	115	1	49.46	ppb	1.04	50	98.9	90 - 110	
182 W	165	1	49.80	ppb	0.94	50	99.6	90 - 110	
195 Pt	165	1	49.70	ppb	1.06	50	99.4	90 - 110	
205 Tl	165	1	51.49	ppb	1.42	50	103.0	90 - 110	
208 Pb	165	1	50.92	ppb	0.92	50	101.8	90 - 110	
232 Th	165	1	51.11	ppb	0.65	50	102.2	90 - 110	
238 U	165	1	51.23	ppb	0.62	50	102.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	396318	0.51	423022	93.7	30 - 120	
45 Sc	1	1512287	0.28	1641233	92.1	30 - 120	
72 Ge	1	672303	0.65	731921	91.9	30 - 120	
115 In	1	1939064	0.25	2073602	93.5	30 - 120	
165 Ho	1	3132084	0.22	3248591	96.4	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\212_CCB.D\212_CCB.D#
Date Acquired: Oct 7 2009 03:48 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.034	ppb	34.72	1.00	
23 Na	6	1	-2.593	ppb	14.71	20.00	
24 Mg	6	1	1.060	ppb	16.88	20.00	
27 Al	45	1	-4.054	ppb	3.60	20.00	
39 K	45	1	2.662	ppb	3.23	20.00	
43 Ca	45	1	4.869	ppb	69.25	20.00	
51 V	72	1	0.007	ppb	338.58	1.00	
52 Cr	72	1	0.042	ppb	24.95	1.00	
55 Mn	72	1	0.013	ppb	69.44	1.00	
57 Fe	72	1	0.969	ppb	39.02	20.00	
59 Co	72	1	0.012	ppb	31.39	1.00	
60 Ni	72	1	0.010	ppb	181.56	1.00	
63 Cu	72	1	-0.010	ppb	61.21	1.00	
66 Zn	72	1	-0.071	ppb	14.28	10.00	
75 As	72	1	0.018	ppb	122.74	1.00	
78 Se	72	1	0.160	ppb	340.28	1.00	
93 Nb	115	1	3.489	ppb	13.89	2.00	Fail
95 Mo	115	1	0.012	ppb	39.88	1.00	
105 Pd	115	1	0.045	ppb	1.10	1.00	
107 Ag	115	1	0.014	ppb	37.50	1.00	
111 Cd	115	1	0.010	ppb	11.20	1.00	
118 Sn	115	1	0.056	ppb	17.43	10.00	
121 Sb	115	1	0.199	ppb	6.31	1.00	
137 Ba	115	1	0.013	ppb	33.03	1.00	
182 W	165	1	0.054	ppb	29.66	5.00	
195 Pt	165	1	0.010	ppb	30.10	1.00	
205 Tl	165	1	0.031	ppb	9.72	1.00	
208 Pb	165	1	0.010	ppb	28.59	1.00	
232 Th	165	1	0.178	ppb	16.31	2.00	
238 U	165	1	0.018	ppb	14.93	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	407275	0.24	423022	96.3	30 - 120	
45 Sc	1	1550774	0.74	1641233	94.5	30 - 120	
72 Ge	1	699214	1.15	731921	95.5	30 - 120	
115 In	1	2019840	1.05	2073602	97.4	30 - 120	
165 Ho	1	3180606	0.90	3248591	97.9	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\213WASH.D\213WASH.D#
Date Acquired: Oct 7 2009 03:51 am
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.097 ppb	11.90	1.30	
23 Na	6	1	50.870 ppb	0.71	65.00	
24 Mg	6	1	55.350 ppb	0.44	65.00	
27 Al	45	1	30.270 ppb	2.22	39.00	
39 K	45	1	112.400 ppb	0.72	130.00	
43 Ca	45	1	57.380 ppb	2.91	65.00	
51 V	72	1	4.900 ppb	1.99	6.50	
52 Cr	72	1	2.043 ppb	4.77	2.60	
55 Mn	72	1	1.037 ppb	2.55	1.30	
57 Fe	72	1	54.160 ppb	1.56	65.00	
59 Co	72	1	1.048 ppb	3.02	1.30	
60 Ni	72	1	2.133 ppb	6.15	2.60	
63 Cu	72	1	2.064 ppb	2.04	2.60	
66 Zn	72	1	10.520 ppb	0.86	13.00	
75 As	72	1	5.043 ppb	1.80	6.50	
78 Se	72	1	4.504 ppb	25.40	6.50	
93 Nb	115	1	43.060 ppb	0.37	52.00	
95 Mo	115	1	2.021 ppb	7.38	2.60	
105 Pd	115	1	0.820 ppb	3.33	1.30	
107 Ag	115	1	5.307 ppb	0.26	6.50	
111 Cd	115	1	1.039 ppb	12.33	1.30	
118 Sn	115	1	10.370 ppb	2.82	13.00	
121 Sb	115	1	2.050 ppb	2.17	2.60	
137 Ba	115	1	1.057 ppb	3.56	1.30	
182 W	165	1	5.047 ppb	3.42	6.50	
195 Pt	165	1	0.959 ppb	2.30	1.30	
205 Tl	165	1	1.111 ppb	1.21	1.30	
208 Pb	165	1	1.102 ppb	1.40	1.30	
232 Th	165	1	2.269 ppb	4.48	2.60	
238 U	165	1	1.109 ppb	2.01	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	408037	0.46	423022	96.5	30 - 120	
45 Sc	1	1570768	1.02	1641233	95.7	30 - 120	
72 Ge	1	700842	0.11	731921	95.8	30 - 120	
115 In	1	2037321	1.09	2073602	98.3	30 - 120	
165 Ho	1	3201010	1.35	3248591	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\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\209CALB.D\209CALB.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\AG100609.B\223_CCV.D\223_CCV.D#
Date Acquired: Oct 7 2009 04:20 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	50.05	ppb	1.65	50	100.1	90 - 110	
23 Na	6	1	4920.00	ppb	0.60	5000	98.4	90 - 110	
24 Mg	6	1	4861.00	ppb	1.81	5000	97.2	90 - 110	
27 Al	45	1	5013.00	ppb	2.11	5000	100.3	90 - 110	
39 K	45	1	5041.00	ppb	2.64	5000	100.8	90 - 110	
43 Ca	45	1	5104.00	ppb	2.18	5000	102.1	90 - 110	
51 V	72	1	48.22	ppb	0.70	50	96.4	90 - 110	
52 Cr	72	1	48.94	ppb	0.66	50	97.9	90 - 110	
55 Mn	72	1	49.89	ppb	0.93	50	99.8	90 - 110	
57 Fe	72	1	5098.00	ppb	2.02	5000	102.0	90 - 110	
59 Co	72	1	49.20	ppb	1.40	50	98.4	90 - 110	
60 Ni	72	1	50.41	ppb	0.77	50	100.8	90 - 110	
63 Cu	72	1	50.21	ppb	1.00	50	100.4	90 - 110	
66 Zn	72	1	49.80	ppb	0.76	50	99.6	90 - 110	
75 As	72	1	49.89	ppb	0.37	50	99.8	90 - 110	
78 Se	72	1	48.48	ppb	3.21	50	97.0	90 - 110	
93 Nb	115	1	90.44	ppb	1.59	100	90.4	90 - 110	
95 Mo	115	1	48.42	ppb	1.41	50	96.8	90 - 110	
105 Pd	115	1	49.40	ppb	2.02	50	98.8	90 - 110	
107 Ag	115	1	49.12	ppb	2.19	50	98.2	90 - 110	
111 Cd	115	1	49.50	ppb	0.50	50	99.0	90 - 110	
118 Sn	115	1	49.49	ppb	1.20	50	99.0	90 - 110	
121 Sb	115	1	49.04	ppb	1.13	50	98.1	90 - 110	
137 Ba	115	1	49.04	ppb	2.15	50	98.1	90 - 110	
182 W	165	1	49.69	ppb	0.67	50	99.4	90 - 110	
195 Pt	165	1	49.44	ppb	0.93	50	98.9	90 - 110	
205 Tl	165	1	51.54	ppb	1.16	50	103.1	90 - 110	
208 Pb	165	1	51.39	ppb	0.82	50	102.8	90 - 110	
232 Th	165	1	51.40	ppb	0.35	50	102.8	90 - 110	
238 U	165	1	51.00	ppb	0.76	50	102.0	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	376654	1.07	423022	89.0	30 - 120	
45 Sc	1	1415895	2.34	1641233	86.3	30 - 120	
72 Ge	1	630320	1.48	731921	86.1	30 - 120	
115 In	1	1874571	0.94	2073602	90.4	30 - 120	
165 Ho	1	3066170	0.30	3248591	94.4	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\224_CCB.D\224_CCB.D#
Date Acquired: Oct 7 2009 04:23 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.015	ppb	173.21	1.00	
23 Na	6	1	-2.471	ppb	27.82	20.00	
24 Mg	6	1	2.661	ppb	10.75	20.00	
27 Al	45	1	3.791	ppb	12.18	20.00	
39 K	45	1	-0.492	ppb	131.77	20.00	
43 Ca	45	1	5.764	ppb	31.21	20.00	
51 V	72	1	-0.013	ppb	350.04	1.00	
52 Cr	72	1	-0.005	ppb	449.07	1.00	
55 Mn	72	1	0.024	ppb	77.92	1.00	
57 Fe	72	1	0.641	ppb	8.69	20.00	
59 Co	72	1	0.011	ppb	32.71	1.00	
60 Ni	72	1	0.031	ppb	62.14	1.00	
63 Cu	72	1	-0.006	ppb	101.23	1.00	
66 Zn	72	1	4.406	ppb	4.04	10.00	
75 As	72	1	0.008	ppb	120.16	1.00	
78 Se	72	1	0.227	ppb	252.16	1.00	
93 Nb	115	1	2.617	ppb	13.95	2.00	Fail
95 Mo	115	1	-0.015	ppb	76.49	1.00	
105 Pd	115	1	0.030	ppb	15.15	1.00	
107 Ag	115	1	0.008	ppb	39.70	1.00	
111 Cd	115	1	0.018	ppb	68.00	1.00	
118 Sn	115	1	0.045	ppb	36.86	10.00	
121 Sb	115	1	0.163	ppb	6.48	1.00	
137 Ba	115	1	0.017	ppb	12.01	1.00	
182 W	165	1	0.036	ppb	5.54	5.00	
195 Pt	165	1	0.014	ppb	47.06	1.00	
205 Tl	165	1	0.026	ppb	11.30	1.00	
208 Pb	165	1	0.007	ppb	45.12	1.00	
232 Th	165	1	0.191	ppb	14.54	2.00	
238 U	165	1	0.018	ppb	11.45	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	377250	1.18	423022	89.2	30 - 120	
45 Sc	1	1418986	0.94	1641233	86.5	30 - 120	
72 Ge	1	642500	0.45	731921	87.8	30 - 120	
115 In	1	1882721	0.30	2073602	90.8	30 - 120	
165 Ho	1	3064589	1.14	3248591	94.3	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\225WASH.D\225WASH.D#
Date Acquired: Oct 7 2009 04:26 am
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.004 ppb	19.10	1.30	
23 Na	6	1	47.890 ppb	1.74	65.00	
24 Mg	6	1	55.210 ppb	0.95	65.00	
27 Al	45	1	30.060 ppb	2.40	39.00	
39 K	45	1	113.900 ppb	3.96	130.00	
43 Ca	45	1	60.940 ppb	12.09	65.00	
51 V	72	1	4.918 ppb	3.56	6.50	
52 Cr	72	1	2.078 ppb	2.99	2.60	
55 Mn	72	1	1.030 ppb	4.33	1.30	
57 Fe	72	1	54.480 ppb	3.93	65.00	
59 Co	72	1	0.997 ppb	1.73	1.30	
60 Ni	72	1	2.118 ppb	2.74	2.60	
63 Cu	72	1	2.115 ppb	1.89	2.60	
66 Zn	72	1	10.410 ppb	1.25	13.00	
75 As	72	1	5.116 ppb	0.84	6.50	
78 Se	72	1	4.567 ppb	20.89	6.50	
93 Nb	115	1	40.470 ppb	0.89	52.00	
95 Mo	115	1	1.969 ppb	2.71	2.60	
105 Pd	115	1	0.908 ppb	6.94	1.30	
107 Ag	115	1	5.304 ppb	1.54	6.50	
111 Cd	115	1	1.051 ppb	1.81	1.30	
118 Sn	115	1	10.140 ppb	1.94	13.00	
121 Sb	115	1	1.988 ppb	2.46	2.60	
137 Ba	115	1	1.031 ppb	4.76	1.30	
182 W	165	1	5.111 ppb	1.50	6.50	
195 Pt	165	1	1.040 ppb	2.90	1.30	
205 Tl	165	1	1.119 ppb	1.68	1.30	
208 Pb	165	1	1.136 ppb	0.59	1.30	
232 Th	165	1	2.278 ppb	1.99	2.60	
238 U	165	1	1.123 ppb	0.85	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	377662	1.12	423022	89.3	30 - 120	
45 Sc	1	1416265	1.16	1641233	86.3	30 - 120	
72 Ge	1	648683	1.05	731921	88.6	30 - 120	
115 In	1	1903031	0.26	2073602	91.8	30 - 120	
165 Ho	1	3067706	0.39	3248591	94.4	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\226_BLK.D\226_BLK.D#
Date Acquired: Oct 7 2009 04:29 am
Operator: TEL
Sample Name: LL1J7B
Misc Info: BLANK 9278251 6020
Vial Number: 4203
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.000 ppb	0.00	2.00	
23 Na	6	1	-3.299 ppb	13.24	40.00	
24 Mg	6	1	0.650 ppb	25.27	40.00	
27 Al	45	1	-6.870 ppb	1.22	40.00	
39 K	45	1	-1.612 ppb	24.65	40.00	
43 Ca	45	1	6.753 ppb	37.30	40.00	
51 V	72	1	0.019 ppb	71.04	2.00	
52 Cr	72	1	0.200 ppb	6.63	2.00	
55 Mn	72	1	0.058 ppb	22.82	2.00	
57 Fe	72	1	3.602 ppb	7.20	40.00	
59 Co	72	1	0.001 ppb	5.00	2.00	
60 Ni	72	1	0.026 ppb	63.84	2.00	
63 Cu	72	1	0.041 ppb	52.95	2.00	
66 Zn	72	1	0.404 ppb	5.40	20.00	
75 As	72	1	-0.002 ppb	337.37	2.00	
78 Se	72	1	0.134 ppb	196.71	2.00	
93 Nb	115	1	1.591 ppb	16.47	4.00	
95 Mo	115	1	0.004 ppb	174.06	2.00	
105 Pd	115	1	0.003 ppb	141.84	2.00	
107 Ag	115	1	0.004 ppb	81.09	2.00	
111 Cd	115	1	0.001 ppb	309.08	2.00	
118 Sn	115	1	0.050 ppb	35.29	20.00	
121 Sb	115	1	0.038 ppb	0.88	2.00	
137 Ba	115	1	0.051 ppb	17.87	2.00	
182 W	165	1	0.005 ppb	71.94	10.00	
195 Pt	165	1	0.008 ppb	74.29	2.00	
205 Tl	165	1	0.009 ppb	22.18	2.00	
208 Pb	165	1	0.007 ppb	9.40	2.00	
232 Th	165	1	0.025 ppb	30.11	4.00	
238 U	165	1	0.003 ppb	13.07	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	367910	0.07	423022	87.0	30 - 120	
45 Sc	1	1387442	0.66	1641233	84.5	30 - 120	
72 Ge	1	620488	0.95	731921	84.8	30 - 120	
115 In	1	1819859	0.71	2073602	87.8	30 - 120	
165 Ho	1	2999971	0.41	3248591	92.3	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\227_LCS.D\227_LCS.D#
Date Acquired: Oct 7 2009 04:32 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL1J7C
Misc Info: LCS
Vial Number: 4204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	38.11	3.99	40	95.3	80 - 120	
23 Na	6	1	-0.65	82.08	4000	0.0	80 - 120	
24 Mg	6	1	0.96	14.89	4000	0.0	80 - 120	
27 Al	45	1	37.17	2.49	4000	0.9	80 - 120	
39 K	45	1	-0.41	362.36	4000	0.0	80 - 120	
43 Ca	45	1	12.03	21.43	4000	0.3	80 - 120	
51 V	72	1	37.47	1.60	40	93.7	80 - 120	
52 Cr	72	1	38.98	1.62	40	97.5	80 - 120	
55 Mn	72	1	39.63	0.63	40	99.1	80 - 120	
57 Fe	72	1	213.20	0.59	4000	5.3	80 - 120	
59 Co	72	1	39.48	0.30	40	98.7	80 - 120	
60 Ni	72	1	41.00	1.49	40	102.5	80 - 120	
63 Cu	72	1	41.16	1.40	40	102.9	80 - 120	
66 Zn	72	1	104.00	1.42	40	260.0	80 - 120	
75 As	72	1	38.19	1.20	40	95.5	80 - 120	
78 Se	72	1	37.52	1.87	40	93.8	80 - 120	
93 Nb	115	1	0.82	26.11	80	1.0	80 - 120	
95 Mo	115	1	38.34	1.13	40	95.9	80 - 120	
105 Pd	115	1	0.00	238.15	40	0.0	80 - 120	
107 Ag	115	1	40.10	2.13	40	100.3	80 - 120	
111 Cd	115	1	38.13	2.17	40	95.3	80 - 120	
118 Sn	115	1	0.08	33.59	40	0.2	80 - 120	
121 Sb	115	1	38.66	0.28	40	96.7	80 - 120	
137 Ba	115	1	39.71	1.12	40	99.3	80 - 120	
182 W	165	1	0.02	96.12	40	0.0	80 - 120	
195 Pt	165	1	0.03	43.86	40	0.1	80 - 120	
205 Tl	165	1	41.42	0.54	40	103.6	80 - 120	
208 Pb	165	1	42.39	0.53	40	106.0	80 - 120	
232 Th	165	1	39.52	2.93	40	98.8	80 - 120	
238 U	165	1	41.84	0.75	40	104.6	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	359716	0.97	423022	85.0	30 - 120	
45 Sc	1	1352539	0.27	1641233	82.4	30 - 120	
72 Ge	1	604709	1.01	731921	82.6	30 - 120	
115 In	1	1808840	0.86	2073602	87.2	30 - 120	
165 Ho	1	2953051	0.12	3248591	90.9	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\228AREF.D\228AREF.D#
Date Acquired: Oct 7 2009 04:35 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FG
Misc Info: D9J030137
Vial Number: 4205
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
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	0.02	0.02	ppb	173.21	3600	
23 Na	6	1	1.84	1.84	ppb	33.82	100000	
24 Mg	6	1	3.83	3.83	ppb	3.13	100000	
27 Al	45	1	0.29	0.29	ppb	150.94	100000	
39 K	45	1	4.65	4.65	ppb	27.94	100000	
43 Ca	45	1	27.51	27.51	ppb	13.66	100000	
51 V	72	1	0.00	0.00	ppb	265.97	3600	
52 Cr	72	1	0.22	0.22	ppb	19.09	3600	
55 Mn	72	1	1.70	1.70	ppb	2.14	18000	
57 Fe	72	1	67.88	67.88	ppb	2.09	100000	
59 Co	72	1	0.01	0.01	ppb	44.44	3600	
60 Ni	72	1	0.13	0.13	ppb	14.90	3600	
63 Cu	72	1	0.38	0.38	ppb	15.11	3600	
66 Zn	72	1	1.94	1.94	ppb	5.92	3600	
75 As	72	1	0.03	0.03	ppb	37.91	3600	
78 Se	72	1	0.01	0.01	ppb	3961.70	3600	
93 Nb	115	1	0.44	0.44	ppb	25.92	2000	
95 Mo	115	1	0.30	0.30	ppb	3.05	3600	
105 Pd	115	1	0.00	0.00	ppb	155.00	1000	
107 Ag	115	1	0.00	0.00	ppb	85.31	3600	
111 Cd	115	1	0.00	0.00	ppb	414.31	3600	
118 Sn	115	1	0.01	0.01	ppb	52.93	3600	
121 Sb	115	1	0.04	0.04	ppb	15.31	3600	
137 Ba	115	1	0.07	0.07	ppb	31.25	3600	
182 W	165	1	0.00	0.00	ppb	231.29	1000	
195 Pt	165	1	0.00	0.00	ppb	330.84	1000	
205 Tl	165	1	0.02	0.02	ppb	35.03	3600	
208 Pb	165	1	0.03	0.03	ppb	7.26	3600	
232 Th	165	1	0.59	0.59	ppb	30.12	1000	
238 U	165	1	0.01	0.01	ppb	19.19	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	361184	0.22	423022	85.4	30 - 120	
45 Sc	1	1344143	1.40	1641233	81.9	30 - 120	
72 Ge	1	609372	0.89	731921	83.3	30 - 120	
115 In	1	1814554	1.48	2073602	87.5	30 - 120	
165 Ho	1	2961097	0.32	3248591	91.2	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\229SDIL.D\229SDIL.D#
Date Acquired: Oct 7 2009 04:38 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGP5
Misc Info: SERIAL DILUTION
Vial Number: 4206
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG100609.B\228AREF.D\228AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.00	ppb	0.00	0.00	0.0	90 - 110	
23 Na	6	1	-4.50	ppb	4.16	0.37	-1223.8	90 - 110	
24 Mg	6	1	8.19	ppb	0.32	0.77	1068.8	90 - 110	
27 Al	45	1	9.03	ppb	5.23	0.06	15482.0	90 - 110	
39 K	45	1	0.85	ppb	71.09	0.93	91.9	90 - 110	
43 Ca	45	1	7.83	ppb	52.20	5.50	142.2	90 - 110	
51 V	72	1	0.01	ppb	332.03	0.00	1567.7	90 - 110	
52 Cr	72	1	0.24	ppb	5.92	0.04	543.1	90 - 110	
55 Mn	72	1	0.33	ppb	4.00	0.34	97.6	90 - 110	
57 Fe	72	1	8.98	ppb	8.03	13.58	66.2	90 - 110	
59 Co	72	1	0.00	ppb	48.74	0.00	178.4	90 - 110	
60 Ni	72	1	0.15	ppb	22.43	0.03	590.2	90 - 110	
63 Cu	72	1	0.07	ppb	21.77	0.08	99.2	90 - 110	
66 Zn	72	1	0.58	ppb	4.04	0.39	150.6	90 - 110	
75 As	72	1	0.01	ppb	173.59	0.01	142.5	90 - 110	
78 Se	72	1	-0.48	ppb	82.90	0.00	-17489.2	90 - 110	
93 Nb	115	1	0.22	ppb	47.06	0.09	250.6	90 - 110	
95 Mo	115	1	0.03	ppb	46.64	0.06	49.4	90 - 110	
105 Pd	115	1	0.00	ppb	208.47	0.00	478.0	90 - 110	
107 Ag	115	1	0.00	ppb	78.23	0.00	-152.9	90 - 110	
111 Cd	115	1	0.00	ppb	125.81	0.00	771.1	90 - 110	
118 Sn	115	1	0.00	ppb	553.17	0.00	160.5	90 - 110	
121 Sb	115	1	0.03	ppb	29.72	0.01	366.5	90 - 110	
137 Ba	115	1	0.01	ppb	5.18	0.01	81.5	90 - 110	
182 W	165	1	0.01	ppb	120.42	0.00	-2618.8	90 - 110	
195 Pt	165	1	0.02	ppb	18.24	0.00	-17135.2	90 - 110	
205 Tl	165	1	0.00	ppb	35.05	0.00	47.2	90 - 110	
208 Pb	165	1	0.01	ppb	5.93	0.01	269.5	90 - 110	
232 Th	165	1	0.06	ppb	15.80	0.12	48.7	90 - 110	
238 U	165	1	0.00	ppb	12.77	0.00	120.2	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	371532	1.14	423022	87.8	30 - 120	
45 Sc	1	1407592	1.40	1641233	85.8	30 - 120	
72 Ge	1	631964	0.93	731921	86.3	30 - 120	
115 In	1	1860903	0.82	2073602	89.7	30 - 120	
165 Ho	1	3017647	0.19	3248591	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\AG100609.B\209CALB.D\209CALB.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: 10/07/09 11:22:50

Department: 090 (Metals) | Source: Spreadsheet

Sample: **LL0FGP5** | Serial Dilution: **5.00** | Sample Dilution: **1.00**

Instrument: **Agilent7500** | Channel 272
File: AG100609 # 229 | Method 6020_
Acquired: 10/07/2009 04:38:00 | ICPMS_024 | Matrix: AQUEOUS
Calibrated: 10/07/2009 03:39:00 | Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9		0	0.01519	100		*	
7440-62-2	Vanadium	51	189	0.06260	0.00399	1470		*	
7440-47-3	Chromium	52	4791	1.2045	0.22180	443		*	
7439-96-5	Manganese	55	3731	1.6605	1.7020	2.44		*	
7440-48-4	Cobalt	59	100	0.01943	0.01089	78.4		*	
7440-02-0	Nickel	60	437	0.76200	0.12910	490		*	
7440-50-8	Copper	63	843	0.37225	0.37510	0.760		*	
7440-66-6	Zinc	66	1308	2.9215	1.9400	50.6		*	
7440-38-2	Arsenic	75	49	0.04297	0.03015	42.5	0.21	NC	☑
7782-49-2	Selenium	78	503	-2.4205	0.01384	17600	0.70	NC	☑
7439-98-7	Molybdenum	95	257	0.14935	0.30220	50.6		*	
7440-22-4	Silver	107	20	-0.00756	0.00494	253		*	
7440-43-9	Cadmium	111	7	0.00813	0.00105	671		*	
7440-31-5	Tin	118	290	0.01232	0.00768	60.5		*	
7440-36-0	Antimony	121	218	0.15860	0.04328	266		*	
7440-39-3	Barium	137	64	0.05705	0.06998	18.5		*	
7440-28-0	Thallium	205	82	0.00971	0.02058	52.8		*	
7439-92-1	Lead	208	692	0.07350	0.02727	170		*	
7440-61-1	Uranium	238	92	0.01273	0.01059	20.2		*	
7440-23-5	Sodium	23	146607	-22.505	1.8390	1320		*	
7439-95-4	Magnesium	24	18936	40.935	3.8300	969		*	
7429-90-5	Aluminum	27	33744	45.130	0.29150	15400		*	
7440-09-7	Potassium	39	230436	4.2735	4.6500	8.10		*	
7440-70-2	Calcium	43	70	39.125	27.510	42.2		*	
7439-89-6	Iron	57	2677	44.905	67.880	33.8		*	
7440-03-1	Niobium	93	8930	1.1135	0.44440	151		*	
7440-05-3	Palladium	105	13	0.00956	0.00200	378		*	
7440-33-7	Tungsten	182	683	0.05950	-0.00227			*	
7440-06-4	Platinum	195	227	0.12130	-0.00071			*	
7440-29-1	Thorium	232	1664	0.28865	0.59240	51.3		*	
7439-93-2	Lithium	6			0			*	
7440-20-2	Scandium	45			0			*	
7440-74-6	Indium	115			0			*	
7440-56-4	Germanium	72			0			*	
7440-60-0	Holmium	165			0			*	

*** Analyte not requested for this batch, no MDL**

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: LRD Date: 10/7/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\230PDS.D\230PDS.D#
Date Acquired: Oct 7 2009 04:41 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGZ
Misc Info: POST DIGESTION SPIKE
Vial Number: 4207
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	186.90	0.02	ppb	0.66	200	93.4	75 - 125	
23 Na	6	1	0.60	1.84	ppb	245.63	200000	0.0	75 - 125	
24 Mg	6	1	4.15	3.83	ppb	2.60	200000	0.0	75 - 125	
27 Al	45	1	-3.76	0.29	ppb	2.70	200000	0.0	75 - 125	
39 K	45	1	3.65	4.65	ppb	25.84	200000	0.0	75 - 125	
43 Ca	45	1	29.37	27.51	ppb	8.53	200000	0.0	75 - 125	
51 V	72	1	184.10	0.00	ppb	0.33	200	92.0	75 - 125	
52 Cr	72	1	196.00	0.22	ppb	0.30	200	97.9	75 - 125	
55 Mn	72	1	197.10	1.70	ppb	0.60	200	97.7	75 - 125	
57 Fe	72	1	37.36	67.88	ppb	1.65	200000	0.0	75 - 125	
59 Co	72	1	192.70	0.01	ppb	0.75	200	96.3	75 - 125	
60 Ni	72	1	197.50	0.13	ppb	1.18	200	98.7	75 - 125	
63 Cu	72	1	201.10	0.38	ppb	0.44	200	100.4	75 - 125	
66 Zn	72	1	190.80	1.94	ppb	0.24	200	94.5	75 - 125	
75 As	72	1	187.00	0.03	ppb	1.05	200	93.5	75 - 125	
78 Se	72	1	184.20	0.01	ppb	1.10	200	92.1	75 - 125	
93 Nb	115	1	0.20	0.44	ppb	52.64	400	0.1	75 - 125	
95 Mo	115	1	188.50	0.30	ppb	0.55	200	94.1	75 - 125	
105 Pd	115	1	0.01	0.00	ppb	54.98	200	0.0	75 - 125	
107 Ag	115	1	48.31	0.00	ppb	0.81	50	96.6	75 - 125	
111 Cd	115	1	188.00	0.00	ppb	1.29	200	94.0	75 - 125	
118 Sn	115	1	173.60	0.01	ppb	0.61	200	86.8	75 - 125	
121 Sb	115	1	186.60	0.04	ppb	0.64	200	93.3	75 - 125	
137 Ba	115	1	192.20	0.07	ppb	0.60	200	96.1	75 - 125	
182 W	165	1	0.02	0.00	ppb	61.53	200	0.0	75 - 125	
195 Pt	165	1	0.00	0.00	ppb	270.72	200	0.0	75 - 125	
205 Tl	165	1	198.20	0.02	ppb	1.45	200	99.1	75 - 125	
208 Pb	165	1	199.50	0.03	ppb	0.70	200	99.7	75 - 125	
232 Th	165	1	0.06	0.59	ppb	14.38	200	0.0	75 - 125	
238 U	165	1	197.00	0.01	ppb	0.88	200	98.5	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	349771	1.44	423022	82.7	30 - 120	
45 Sc	1	1316747	0.37	1641233	80.2	30 - 120	
72 Ge	1	586567	0.34	731921	80.1	30 - 120	
115 In	1	1778249	0.67	2073602	85.8	30 - 120	
165 Ho	1	2923597	1.07	3248591	90.0	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\AG100609.B\209CALB.D\209CALB.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: 10/07/09 11:22:54

Department: 090 (Metals) | Source: Spreadsheet

Sample: **LL0FGZ** | Spike Dilution: **1.00** | Sample Dilution: **1.00**

Instrument: **Agilent7500** | Channel 272
File: AG100609 # 230 | Method 6020_
Acquired: 10/07/2009 04:41:00 | ICPMS_024 | Matrix: AQUEOUS
Calibrated: 10/07/2009 03:39:00 | Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	79333	186.90	0.01519	93.4	200		☑
7440-62-2	Vanadium	51	1519670	184.10	0.00399	92.0	200		☑
7440-47-3	Chromium	52	1586830	196.00	0.22180	97.9	200		☑
7439-96-5	Manganese	55	1820290	197.10	1.7020	97.7	200		☑
7440-48-4	Cobalt	59	1950880	192.70	0.01089	96.3	200		☑
7440-02-0	Nickel	60	442291	197.50	0.12910	98.7	200		☑
7440-50-8	Copper	63	1061180	201.10	0.37510	100	200		☑
7440-66-6	Zinc	66	211696	190.80	1.9400	94.4	200		☑
7440-38-2	Arsenic	75	182056	187.00	0.03015	93.5	200		☑
7782-49-2	Selenium	78	33281	184.20	0.01384	92.1	200		☑
7439-98-7	Molybdenum	95	538113	188.50	0.30220	94.1	200		☑
7440-22-4	Silver	107	394322	48.310	0.00494	96.6	50.0		☑
7440-43-9	Cadmium	111	297057	188.00	0.00105	94.0	200		☑
7440-31-5	Tin	118	790198	173.60	0.00768	86.8	200		☑
7440-36-0	Antimony	121	937349	186.60	0.04328	93.3	200		☑
7440-39-3	Barium	137	443753	192.20	0.06998	96.1	200		☑
7440-28-0	Thallium	205	3329850	198.20	0.02058	99.1	200		☑
7439-92-1	Lead	208	4488170	199.50	0.02727	99.7	200		☑
7440-61-1	Uranium	238	4904110	197.00	0.01059	98.5	200		☑
7440-23-5	Sodium	23	153746	0.60090	1.8390				
7439-95-4	Magnesium	24	10054	4.1490	3.8300				
7429-90-5	Aluminum	27	9253	-3.7580	0.29150				
7440-09-7	Potassium	39	224147	3.6520	4.6500				
7440-70-2	Calcium	43	230	29.370	27.510				
7439-89-6	Iron	57	8439	37.360	67.880				
7440-03-1	Niobium	93	8259	0.20440	0.44440				
7440-05-3	Palladium	105	33	0.00760	0.00200				
7440-33-7	Tungsten	182	703	0.01757	-0.00227				
7440-06-4	Platinum	195	97	-0.00046	-0.00071				
7440-29-1	Thorium	232	1647	0.05918	0.59240				
7439-93-2	Lithium	6			0				
7440-20-2	Scandium	45			0				
7440-74-6	Indium	115			0				
7440-56-4	Germanium	72			0				
7440-60-0	Holmium	165			0				

Reviewed by: LRD Date: 10/7/09

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\231_MS.D\231_MS.D#
Date Acquired: Oct 7 2009 04:44 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGS
Misc Info: MATRIX SPIKE
Vial Number: 4208
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	38.33	0.02	ppb	2.04	40	95.8	50 - 150	
23 Na	6	1	-0.42	1.84	ppb	131.39	4000	0.0	50 - 150	
24 Mg	6	1	4.87	3.83	ppb	2.52	4000	0.1	50 - 150	
27 Al	45	1	39.39	0.29	ppb	6.88	4000	1.0	50 - 150	
39 K	45	1	1.86	4.65	ppb	91.82	4000	0.0	50 - 150	
43 Ca	45	1	19.20	27.51	ppb	11.48	4000	0.5	50 - 150	
51 V	72	1	38.17	0.00	ppb	1.09	40	95.4	50 - 150	
52 Cr	72	1	39.25	0.22	ppb	0.71	40	97.6	50 - 150	
55 Mn	72	1	40.46	1.70	ppb	0.58	40	97.0	50 - 150	
57 Fe	72	1	3.07	67.88	ppb	13.54	4000	0.1	50 - 150	
59 Co	72	1	39.74	0.01	ppb	1.17	40	99.3	50 - 150	
60 Ni	72	1	40.70	0.13	ppb	0.98	40	101.4	50 - 150	
63 Cu	72	1	41.84	0.38	ppb	1.41	40	103.6	50 - 150	
66 Zn	72	1	40.28	1.94	ppb	0.60	40	96.0	50 - 150	
75 As	72	1	38.73	0.03	ppb	0.85	40	96.8	50 - 150	
78 Se	72	1	40.14	0.01	ppb	2.58	40	100.3	50 - 150	
93 Nb	115	1	0.05	0.44	ppb	173.90	80	0.1	50 - 150	
95 Mo	115	1	37.96	0.30	ppb	0.30	40	94.2	50 - 150	
105 Pd	115	1	0.00	0.00	ppb	53.42	40	0.0	50 - 150	
107 Ag	115	1	39.36	0.00	ppb	0.38	40	98.4	50 - 150	
111 Cd	115	1	38.60	0.00	ppb	0.56	40	96.5	50 - 150	
118 Sn	115	1	0.26	0.01	ppb	5.44	40	0.7	50 - 150	
121 Sb	115	1	38.93	0.04	ppb	1.22	40	97.2	50 - 150	
137 Ba	115	1	39.34	0.07	ppb	1.07	40	98.2	50 - 150	
182 W	165	1	0.01	0.00	ppb	49.62	40	0.0	50 - 150	
195 Pt	165	1	-0.01	0.00	ppb	47.28	40	0.0	50 - 150	
205 Tl	165	1	42.19	0.02	ppb	1.15	40	105.4	50 - 150	
208 Pb	165	1	42.81	0.03	ppb	1.04	40	107.0	50 - 150	
232 Th	165	1	39.48	0.59	ppb	3.36	40	97.3	50 - 150	
238 U	165	1	42.30	0.01	ppb	0.74	40	105.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	351691	0.83	423022	83.1	30 - 120	
45 Sc	1	1327805	1.09	1641233	80.9	30 - 120	
72 Ge	1	590119	0.56	731921	80.6	30 - 120	
115 In	1	1792931	0.71	2073602	86.5	30 - 120	
165 Ho	1	2909343	0.59	3248591	89.6	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\AG100609.B\209CALB.D\209CALB.D#

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

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\232_MSD.D\232_MSD.D#
Date Acquired: Oct 7 2009 04:47 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGD
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4209
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG100609.B\231_MS.D\231_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	36.99	ppb	3.53	38.33	3.56	20	
23 Na	6	1	0.27	ppb	167.38	-0.42	-926.54	20	
24 Mg	6	1	5.62	ppb	3.45	4.87	14.19	20	
27 Al	45	1	35.65	ppb	1.77	39.39	9.97	20	
39 K	45	1	2.21	ppb	20.61	1.86	17.22	20	
43 Ca	45	1	21.67	ppb	32.38	19.20	12.09	20	
51 V	72	1	36.95	ppb	2.31	38.17	3.25	20	
52 Cr	72	1	37.85	ppb	1.75	39.25	3.63	20	
55 Mn	72	1	39.28	ppb	0.22	40.46	2.96	20	
57 Fe	72	1	4.29	ppb	22.64	3.07	33.34	20	
59 Co	72	1	38.57	ppb	0.46	39.74	2.99	20	
60 Ni	72	1	39.40	ppb	2.25	40.70	3.25	20	
63 Cu	72	1	40.19	ppb	1.15	41.84	4.02	20	
66 Zn	72	1	38.89	ppb	0.88	40.28	3.51	20	
75 As	72	1	37.21	ppb	1.37	38.73	4.00	20	
78 Se	72	1	36.40	ppb	2.10	40.14	9.77	20	
93 Nb	115	1	-0.01	ppb	1288.50	0.05	247.60	20	
95 Mo	115	1	36.92	ppb	1.80	37.96	2.78	20	
105 Pd	115	1	0.01	ppb	42.25	0.00	76.84	20	
107 Ag	115	1	37.91	ppb	1.42	39.36	3.75	20	
111 Cd	115	1	36.56	ppb	1.84	38.60	5.43	20	
118 Sn	115	1	0.12	ppb	19.48	0.26	76.07	20	
121 Sb	115	1	37.26	ppb	1.59	38.93	4.38	20	
137 Ba	115	1	37.69	ppb	1.38	39.34	4.28	20	
182 W	165	1	0.01	ppb	252.69	0.01	65.95	20	
195 Pt	165	1	0.00	ppb	273.07	-0.01	-365.95	20	
205 Tl	165	1	40.09	ppb	1.43	42.19	5.10	20	
208 Pb	165	1	40.68	ppb	1.11	42.81	5.10	20	
232 Th	165	1	37.92	ppb	2.47	39.48	4.03	20	
238 U	165	1	40.20	ppb	1.18	42.30	5.09	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	349877	1.45	423022	82.7	30 - 120	
45 Sc	1	1309180	0.42	1641233	79.8	30 - 120	
72 Ge	1	581950	1.17	731921	79.5	30 - 120	
115 In	1	1779855	1.06	2073602	85.8	30 - 120	
165 Ho	1	2929664	0.50	3248591	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\233SMPL.D\233SMPL.D#
Date Acquired:	Oct 7 2009 04:50 am
Acq. Method:	6020isis.M
Operator:	TEL
Sample Name:	LL0FJ
Misc Info:	D9J030138
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update:	Oct 07 2009 03:43 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.06	0.06	ppb	49.61	3600	
23 Na	6	1	----	--------	ppb	--------	100000	>LDR
24 Mg	6	1	102,600.00	102600.00	ppb	1.37	100000	>LDR
27 Al	45	1	135.60	135.60	ppb	2.16	100000	
39 K	45	1	19,460.00	19460.00	ppb	0.74	100000	
43 Ca	45	1	162,600.00	162600.00	ppb	0.78	100000	>LDR
51 V	72	1	-37.93	-37.93	ppb	37.44	3600	
52 Cr	72	1	2,517.00	2517.00	ppb	1.75	3600	
55 Mn	72	1	11.72	11.72	ppb	1.05	18000	
57 Fe	72	1	874.40	874.40	ppb	0.98	100000	
59 Co	72	1	0.39	0.39	ppb	1.12	3600	
60 Ni	72	1	5.24	5.24	ppb	1.18	3600	
63 Cu	72	1	11.64	11.64	ppb	1.44	3600	
66 Zn	72	1	1.81	1.81	ppb	2.57	3600	
75 As	72	1	105.20	105.20	ppb	0.28	3600	
78 Se	72	1	4.47	4.47	ppb	9.92	3600	
93 Nb	115	1	0.16	0.16	ppb	45.74	2000	
95 Mo	115	1	30.67	30.67	ppb	1.10	3600	
105 Pd	115	1	4.81	4.81	ppb	4.27	1000	
107 Ag	115	1	0.04	0.04	ppb	13.20	3600	
111 Cd	115	1	0.07	0.07	ppb	16.08	3600	
118 Sn	115	1	0.13	0.13	ppb	49.83	3600	
121 Sb	115	1	0.24	0.24	ppb	14.10	3600	
137 Ba	115	1	27.94	27.94	ppb	1.22	3600	
182 W	165	1	0.59	0.59	ppb	1.90	1000	
195 Pt	165	1	0.05	0.05	ppb	14.62	1000	
205 Tl	165	1	0.09	0.09	ppb	19.46	3600	
208 Pb	165	1	0.24	0.24	ppb	8.11	3600	
232 Th	165	1	0.77	0.77	ppb	39.40	1000	
238 U	165	1	9.52	9.52	ppb	1.35	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	323500	0.22	423022	76.5	30 - 120	
45 Sc	1	1343578	2.25	1641233	81.9	30 - 120	
72 Ge	1	519588	0.57	731921	71.0	30 - 120	
115 In	1	1529676	1.09	2073602	73.8	30 - 120	
165 Ho	1	2557766	1.10	3248591	78.7	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\AG100609.B\209CALB.D\209CALB.D#

3 :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\AG100609.B\234SMPL.D\234SMPL.D#
Date Acquired:	Oct 7 2009 04:53 am
Acq. Method:	6020isis.M
Operator:	TEL
Sample Name:	LL0FK
Misc Info:	D9J030138
Vial Number:	4211
Current Method:	C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update:	Oct 07 2009 03:43 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.04	0.04	ppb	69.72	3600	
23 Na	6	1	----	--------	ppb	--------	100000	>LDR
24 Mg	6	1	108,400.00	108400.00	ppb	1.48	100000	>LDR
27 Al	45	1	127.80	127.80	ppb	4.54	100000	
39 K	45	1	19,970.00	19970.00	ppb	1.13	100000	
43 Ca	45	1	163,900.00	163900.00	ppb	1.92	100000	>LDR
51 V	72	1	-36.91	-36.91	ppb	17.67	3600	
52 Cr	72	1	2,550.00	2550.00	ppb	0.02	3600	
55 Mn	72	1	11.50	11.50	ppb	0.74	18000	
57 Fe	72	1	856.90	856.90	ppb	1.29	100000	
59 Co	72	1	0.39	0.39	ppb	3.85	3600	
60 Ni	72	1	2.65	2.65	ppb	3.02	3600	
63 Cu	72	1	0.91	0.91	ppb	4.43	3600	
66 Zn	72	1	2.14	2.14	ppb	2.28	3600	
75 As	72	1	106.50	106.50	ppb	0.34	3600	
78 Se	72	1	3.93	3.93	ppb	9.07	3600	
93 Nb	115	1	0.09	0.09	ppb	80.11	2000	
95 Mo	115	1	29.75	29.75	ppb	0.79	3600	
105 Pd	115	1	4.78	4.78	ppb	1.61	1000	
107 Ag	115	1	0.03	0.03	ppb	15.31	3600	
111 Cd	115	1	0.07	0.07	ppb	14.97	3600	
118 Sn	115	1	0.09	0.09	ppb	4.99	3600	
121 Sb	115	1	0.22	0.22	ppb	2.88	3600	
137 Ba	115	1	28.92	28.92	ppb	0.74	3600	
182 W	165	1	0.61	0.61	ppb	2.88	1000	
195 Pt	165	1	0.05	0.05	ppb	16.12	1000	
205 Tl	165	1	0.06	0.06	ppb	5.83	3600	
208 Pb	165	1	0.22	0.22	ppb	1.69	3600	
232 Th	165	1	0.14	0.14	ppb	8.84	1000	
238 U	165	1	9.68	9.68	ppb	0.94	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	319222	0.66	423022	75.5	30 - 120	
45 Sc	1	1372017	1.58	1641233	83.6	30 - 120	
72 Ge	1	532619	0.29	731921	72.8	30 - 120	
115 In	1	1535813	0.60	2073602	74.1	30 - 120	
165 Ho	1	2531369	0.13	3248591	77.9	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\AG100609.B\209CALB.D\209CALB.D#

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

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\235_CCV.D\235_CCV.D#
Date Acquired: Oct 7 2009 04:56 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	48.39	ppb	2.79	50	96.8	90 - 110	
23 Na	6	1	5162.00	ppb	0.81	5000	103.2	90 - 110	
24 Mg	6	1	4893.00	ppb	2.04	5000	97.9	90 - 110	
27 Al	45	1	4970.00	ppb	1.07	5000	99.4	90 - 110	
39 K	45	1	5042.00	ppb	1.15	5000	100.8	90 - 110	
43 Ca	45	1	5073.00	ppb	1.16	5000	101.5	90 - 110	
51 V	72	1	47.79	ppb	0.16	50	95.6	90 - 110	
52 Cr	72	1	49.28	ppb	0.72	50	98.6	90 - 110	
55 Mn	72	1	49.35	ppb	0.37	50	98.7	90 - 110	
57 Fe	72	1	5107.00	ppb	1.29	5000	102.1	90 - 110	
59 Co	72	1	49.18	ppb	0.42	50	98.4	90 - 110	
60 Ni	72	1	50.43	ppb	0.86	50	100.9	90 - 110	
63 Cu	72	1	50.71	ppb	0.62	50	101.4	90 - 110	
66 Zn	72	1	50.25	ppb	1.19	50	100.5	90 - 110	
75 As	72	1	49.89	ppb	0.82	50	99.8	90 - 110	
78 Se	72	1	49.78	ppb	2.31	50	99.6	90 - 110	
93 Nb	115	1	90.46	ppb	0.69	100	90.5	90 - 110	
95 Mo	115	1	48.47	ppb	0.79	50	96.9	90 - 110	
105 Pd	115	1	49.96	ppb	1.94	50	99.9	90 - 110	
107 Ag	115	1	49.53	ppb	0.81	50	99.1	90 - 110	
111 Cd	115	1	49.24	ppb	0.61	50	98.5	90 - 110	
118 Sn	115	1	49.19	ppb	2.00	50	98.4	90 - 110	
121 Sb	115	1	48.76	ppb	0.67	50	97.5	90 - 110	
137 Ba	115	1	49.44	ppb	1.27	50	98.9	90 - 110	
182 W	165	1	49.62	ppb	1.05	50	99.2	90 - 110	
195 Pt	165	1	49.43	ppb	1.48	50	98.9	90 - 110	
205 Tl	165	1	51.20	ppb	1.18	50	102.4	90 - 110	
208 Pb	165	1	50.85	ppb	1.01	50	101.7	90 - 110	
232 Th	165	1	50.77	ppb	0.90	50	101.5	90 - 110	
238 U	165	1	50.96	ppb	0.44	50	101.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	375980	1.93	423022	88.9	30 - 120	
45 Sc	1	1434556	0.53	1641233	87.4	30 - 120	
72 Ge	1	640778	1.52	731921	87.5	30 - 120	
115 In	1	1906943	0.93	2073602	92.0	30 - 120	
165 Ho	1	3106400	0.67	3248591	95.6	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\236_CCB.D\236_CCB.D#
Date Acquired: Oct 7 2009 04:59 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	173.25	1.00	
23 Na	6	1	135.100	ppb	4.00	20.00	Fail
24 Mg	6	1	4.672	ppb	5.46	20.00	
27 Al	45	1	6.553	ppb	9.53	20.00	
39 K	45	1	8.631	ppb	9.88	20.00	
43 Ca	45	1	9.039	ppb	52.17	20.00	
51 V	72	1	-0.056	ppb	60.17	1.00	
52 Cr	72	1	0.121	ppb	11.47	1.00	
55 Mn	72	1	0.018	ppb	63.53	1.00	
57 Fe	72	1	0.945	ppb	34.28	20.00	
59 Co	72	1	0.014	ppb	33.07	1.00	
60 Ni	72	1	0.010	ppb	164.78	1.00	
63 Cu	72	1	-0.004	ppb	77.84	1.00	
66 Zn	72	1	3.961	ppb	1.97	10.00	
75 As	72	1	0.031	ppb	35.04	1.00	
78 Se	72	1	-0.215	ppb	298.42	1.00	
93 Nb	115	1	2.578	ppb	13.03	2.00	Fail
95 Mo	115	1	-0.010	ppb	114.70	1.00	
105 Pd	115	1	0.023	ppb	66.28	1.00	
107 Ag	115	1	0.020	ppb	32.89	1.00	
111 Cd	115	1	0.015	ppb	56.82	1.00	
118 Sn	115	1	0.045	ppb	51.54	10.00	
121 Sb	115	1	0.148	ppb	9.78	1.00	
137 Ba	115	1	0.016	ppb	23.45	1.00	
182 W	165	1	0.049	ppb	20.02	5.00	
195 Pt	165	1	0.014	ppb	67.70	1.00	
205 Tl	165	1	0.033	ppb	12.15	1.00	
208 Pb	165	1	0.012	ppb	16.90	1.00	
232 Th	165	1	0.185	ppb	15.86	2.00	
238 U	165	1	0.018	ppb	8.31	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	380623	0.45	423022	90.0	30 - 120	
45 Sc	1	1471588	0.86	1641233	89.7	30 - 120	
72 Ge	1	672097	0.38	731921	91.8	30 - 120	
115 In	1	1972340	0.82	2073602	95.1	30 - 120	
165 Ho	1	3168178	0.86	3248591	97.5	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\AG100609.B\209CALB.D\209CALB.D#

2 :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\AG100609.B\237WASH.D\237WASH.D#
Date Acquired:	Oct 7 2009 05:02 am
Operator:	TEL
Sample Name:	RLCV
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update:	Oct 07 2009 03:43 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.050 ppb	3.41	1.30	
23 Na	6	1	135.200 ppb	0.25	65.00	
24 Mg	6	1	57.000 ppb	0.25	65.00	
27 Al	45	1	30.060 ppb	3.42	39.00	
39 K	45	1	116.400 ppb	1.01	130.00	
43 Ca	45	1	66.140 ppb	14.35	65.00	
51 V	72	1	4.872 ppb	1.80	6.50	
52 Cr	72	1	2.064 ppb	1.56	2.60	
55 Mn	72	1	1.019 ppb	2.64	1.30	
57 Fe	72	1	53.820 ppb	2.08	65.00	
59 Co	72	1	1.055 ppb	1.52	1.30	
60 Ni	72	1	2.155 ppb	4.39	2.60	
63 Cu	72	1	2.117 ppb	1.44	2.60	
66 Zn	72	1	10.440 ppb	0.44	13.00	
75 As	72	1	5.015 ppb	1.96	6.50	
78 Se	72	1	5.160 ppb	1.37	6.50	
93 Nb	115	1	40.580 ppb	0.88	52.00	
95 Mo	115	1	1.943 ppb	1.53	2.60	
105 Pd	115	1	0.868 ppb	5.10	1.30	
107 Ag	115	1	5.354 ppb	0.99	6.50	
111 Cd	115	1	1.027 ppb	3.31	1.30	
118 Sn	115	1	10.230 ppb	1.01	13.00	
121 Sb	115	1	1.981 ppb	0.51	2.60	
137 Ba	115	1	1.018 ppb	5.28	1.30	
182 W	165	1	5.093 ppb	1.11	6.50	
195 Pt	165	1	0.975 ppb	2.60	1.30	
205 Tl	165	1	1.125 ppb	1.05	1.30	
208 Pb	165	1	1.120 ppb	0.89	1.30	
232 Th	165	1	2.284 ppb	2.55	2.60	
238 U	165	1	1.123 ppb	1.75	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	384516	1.41	423022	90.9	30 - 120	
45 Sc	1	1494946	1.16	1641233	91.1	30 - 120	
72 Ge	1	673197	0.97	731921	92.0	30 - 120	
115 In	1	1989833	0.55	2073602	96.0	30 - 120	
165 Ho	1	3172078	0.38	3248591	97.6	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\AG100609.B\209CALB.D\209CALB.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: D9J030138

Client: Northgate Environmental

Batch(es) #: 9278251

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: 10/7/09

Metals Raw Data RoadMap

LotID		*Metal*	*WorkOrder*	*Anal Date*	*TestDesc*	*Batch*	*File Id*	*Instr*
D9J030138	1	SE	LL0FJ1AC	20091007	6020TOTA	9278251	AG100609	024
D9J030138	1	AS	LL0FJ1AA	20091007	6020TOTA	9278251	AG100609	024
D9J030138	2	SE	LL0FK1AC	20091007	6020TOTA	9278251	AG100609	024
D9J030138	2	AS	LL0FK1AA	20091007	6020TOTA	9278251	AG100609	024

METALS
PREPARATION LOGS
ICP-MS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Batch Number: **9278251**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Katie Stoltz

Prep Date: 10/06/09
Due Date: 10/15/09

Lot	Work Order			Initial Weight/Volume
D9J050000 Water	**LL1J7**	B	Due Date: SDG:	50 mL
D9J050000 Water	**LL1J7**	C	Due Date: SDG:	50 mL
D9J030137 Water	**LL0FG** Total		Due Date: 10/15/09 SDG:	50 mL
D9J030137 Water	**LL0FG** Total	S	Due Date: 10/15/09 SDG:	50 mL
D9J030137 Water	**LL0FG** Total	D	Due Date: 10/15/09 SDG:	50 mL
D9J030138 Water	**LL0FJ** Total		Due Date: 10/15/09 SDG:	50 mL
D9J030138 Water	**LL0FK** Total		Due Date: 10/15/09 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 10/6/09

METALS PREP SHEET
SOP: DEN-IP-0014

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH #	9278251	**ALLIQUOTTED BY:**	JRW
PREP DATE:	10.6.2009	**DIGESTED BY:**	KS

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: KS

STANDARDS USED

Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-5353-09	8/28/10	100uL	15
2008Cal-2	STD-4452-09	7/28/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO_3	JT Baker	H14024	3

TEMPERATURE CYCLES

Thermometer ID: 25894 Block & Cup # : 2; 32

Cycle	Start Time	Temperature (°C)	End Time KS	Temperature (°C)
HNO3	7:00	94	11:~~30~~20 10/6/09	94
HNO3	11:30	94	12:00	94
HNO3				

Samples and QC revolumed to: 50 mL Analyst's Initials KS

COMMENTS:

I certify that all information above is correct and complete.

Signature: Katie Orr ***Date:*** 10.6.09

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)
CCV = Continuing Calibration Verification
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank

TestAmerica Denver

Standards Preparation Logbook Record

Oct-06-2009

Logbook: \\Densvr06\StdsLog\metals.std

STD6653-08, 1000 Se

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SE02003 Vendor's Expiration Date: 12-01-2009
Solvent: 2% HNO3
Date Prep./Opened: 11-25-2008 Date Received: 11-25-2008
Date Expires(1): 12-01-2009 (None)
Date Expires(2): 12-01-2009 (None)
(METALS)-Inventory ID: 803

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1,000.0	1,000.0

STD1198-09, 1000 mg/L Sn

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SN02016 Vendor's Expiration Date: 03-01-2010
Solvent: 1% HNO3
Date Prep./Opened: 03-02-2009 Date Received: 03-02-2009
Date Expires(1): 03-01-2010 (None)
Date Expires(2): 03-01-2010 (None)
(METALS)-Inventory ID: 833

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

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026 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

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

STD2483-09, 1000 Zn (Inorganic Ventures)

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: C2-ZN02051 Vendor's Expiration Date: 05-01-2010
Solvent: 2% HNO3
Date Prep./Opened: 04-28-2009 Date Received: 04-28-2009
Date Expires(1): 05-01-2010 (None)
Date Expires(2): 05-01-2010 (None)
(METALS)-Inventory ID: 856

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	1,000.0	1,000.0

STD5446-09, ICP-MS 1ppm Sn/Zn

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 100.00
Date Prep./Opened: 09-10-2009
Date Expires(1): 03-01-2010 (1 Year)

Parent Std No.: STD1198-09, 1000 mg/L Sn Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	1.0000

Parent Std No.: STD2483-09, 1000 Zn (Inorganic Ventures) Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	1,000.0	1.0000

STD5512-09, ICP-MS (024) INT STD BRC

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 250.00
Date Prep./Opened: 09-14-2009
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
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

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ho	1,000.0	1,000.0

STD6045-09, ICP-MS BLANK — Analyst: DIAZL

Solvent: Water — Volume (ml): 1,000.0
Date Prep./Opened: 10-06-2009
Date Expires(1): 11-06-2009 (1 Month)
Date Expires(2): 11-06-2009 (1 Month)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD6044-09, NITRIC ACID — Aliquot Amount (ml): 50.000

Component	Initial Conc (%)	Final Conc (%)
HNO3	100.00	5.0000

STD6051-09, ICP-MS ICSA — Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 — Volume (ml): 50.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 11-06-2009 (1 Month)
Date Expires(2): 08-01-2010 (None)
pipettes: Met 8

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

STD6055-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 50.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)
pipettes: Met 21 and Met 8

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

STD6056-09, ICP-MS HIGH CAL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 100.00
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.1000
As	20.000	0.1000
Ba	20.000	0.1000
Be	20.000	0.1000
Cd	20.000	0.1000
Co	20.000	0.1000
Cr	20.000	0.1000
Cu	20.000	0.1000
Mn	20.000	0.1000
Ni	20.000	0.1000
Pb	20.000	0.1000
Se	20.000	0.1000
Th	20.000	0.1000
Tl	20.000	0.1000
U	20.000	0.1000
V	20.000	0.1000
Zn	20.000	0.1000

Parent Std No.: STD3110-09, ICP-MS CALSTD 2
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	0.1000
Sb	20.000	0.1000
Sn	20.000	0.1000

Parent Std No.: STD3111-09, ICP-MS CALSTD 3
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)

Al	2,000.0	10.000
Ca	2,000.0	10.000
Fe	2,000.0	10.000
K	2,000.0	10.000
Mg	2,000.0	10.000
Na	2,000.0	10.000

STD6057-09, ICP-MS HIGH CCV STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 100.00
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1 Aliquot Amount (ml): 0.2500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.0500
As	20.000	0.0500
Ba	20.000	0.0500
Be	20.000	0.0500
Cd	20.000	0.0500
Co	20.000	0.0500
Cr	20.000	0.0500
Cu	20.000	0.0500
Mn	20.000	0.0500
Ni	20.000	0.0500
Pb	20.000	0.0500
Se	20.000	0.0500
Th	20.000	0.0500
Tl	20.000	0.0500
U	20.000	0.0500
V	20.000	0.0500
Zn	20.000	0.0500

Parent Std No.: STD3110-09, ICP-MS CALSTD 2 Aliquot Amount (ml): 0.2500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	0.0500
Sb	20.000	0.0500
Sn	20.000	0.0500

Parent Std No.: STD3111-09, ICP-MS CALSTD 3 Aliquot Amount (ml): 0.2500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	5.0000
Ca	2,000.0	5.0000
Fe	2,000.0	5.0000
K	2,000.0	5.0000
Mg	2,000.0	5.0000
Na	2,000.0	5.0000

STD6058-09, ICP-MS HIGH RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD5446-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

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

Parent Std No.: STD6056-09, ICP-MS HIGH CAL STD Aliquot Amount (ml): 0.1000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	0.1000	0.0010
As	0.1000	0.0010
Ba	0.1000	0.0010
Be	0.1000	0.0010
Cd	0.1000	0.0010
Co	0.1000	0.0010
Cr	0.1000	0.0010
Cu	0.1000	0.0010
Mn	0.1000	0.0010
Ni	0.1000	0.0010
Pb	0.1000	0.0010
Se	0.1000	0.0010
Th	0.1000	0.0010
Tl	0.1000	0.0010
U	0.1000	0.0010
V	0.1000	0.0010
Zn	0.1000	0.0010
Mo	0.1000	0.0010
Sb	0.1000	0.0010
Sn	0.1000	0.0010
Al	10.000	0.1000
Ca	10.000	0.1000
Fe	10.000	0.1000
K	10.000	0.1000
Mg	10.000	0.1000
Na	10.000	0.1000

STD6059-09, ICP-MS HIGH AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD6058-09, ICP-MS HIGH RL STD

Aliquot Amount (ml): 2.0000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	0.0090	0.0018
Sn	0.0090	0.0018
Ag	0.0010	0.0002
As	0.0010	0.0002
Ba	0.0010	0.0002
Be	0.0010	0.0002
Cd	0.0010	0.0002
Co	0.0010	0.0002
Cr	0.0010	0.0002
Cu	0.0010	0.0002
Mn	0.0010	0.0002
Ni	0.0010	0.0002
Pb	0.0010	0.0002
Se	0.0010	0.0002
Th	0.0010	0.0002
Tl	0.0010	0.0002
U	0.0010	0.0002
V	0.0010	0.0002
Zn	0.0010	0.0002
Mo	0.0010	0.0002
Sb	0.0010	0.0002
Sn	0.0010	0.0002
Al	0.1000	0.0200
Ca	0.1000	0.0200
Fe	0.1000	0.0200
K	0.1000	0.0200
Mg	0.1000	0.0200
Na	0.1000	0.0200

STD6060-09, ICP-MS HIGH ICSAB

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024

Volume (ml): 10.000

Date Prep./Opened: 10-06-2009

Date Expires(1): 10-07-2009 (1 Day)

Date Expires(2): 08-01-2010 (None)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1

Aliquot Amount (ml): 0.0500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.1000
As	20.000	0.1000
Ba	20.000	0.1000
Be	20.000	0.1000
Cd	20.000	0.1000
Co	20.000	0.1000
Cr	20.000	0.1000
Cu	20.000	0.1000

Mn	20.000	0.1000
Ni	20.000	0.1000
Pb	20.000	0.1000
Se	20.000	0.1000
Th	20.000	0.1000
Tl	20.000	0.1000
U	20.000	0.1000
V	20.000	0.1000
Zn	20.000	0.1000

Parent Std No.: STD3110-09, ICP-MS CALSTD 2 Aliquot Amount (ml): 0.0500

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	0.1000
Sb	20.000	0.1000
Sn	20.000	0.1000

Parent Std No.: STD3111-09, ICP-MS CALSTD 3 Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	100.00
Ca	2,000.0	100.00
Fe	2,000.0	100.00
K	2,000.0	100.00
Mg	2,000.0	100.00
Na	2,000.0	100.00

Parent Std No.: STD3112-09, ICP-MS BRC CALSTD 1 Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Nb	40.000	2.0000
Pd	20.000	1.0000
Pt	20.000	1.0000
W	20.000	1.0000

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

Component	Initial Conc (ug/ml)	Final Conc (mg/L)
Mo	20.000	2.0000
Na	1,000.0	100.00
P	1,000.0	100.00
S	1,000.0	100.00
Ti	20.000	2.0000
Al	1,000.0	100.00
C	2,000.0	200.00
Ca	1,000.0	100.00
Cl	10,000	1,000.0
Fe	1,000.0	100.00
K	1,000.0	100.00
Mg	1,000.0	100.00

STD6061-09, ICP-MS HIGH LR STD1

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3109-09, ICP-MS CALSTD 1
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	1.0000
As	20.000	1.0000
Ba	20.000	1.0000
Be	20.000	1.0000
Cd	20.000	1.0000
Co	20.000	1.0000
Cr	20.000	1.0000
Cu	20.000	1.0000
Mn	20.000	1.0000
Ni	20.000	1.0000
Pb	20.000	1.0000
Se	20.000	1.0000
Th	20.000	1.0000
Tl	20.000	1.0000
U	20.000	1.0000
V	20.000	1.0000
Zn	20.000	1.0000

Parent Std No.: STD3110-09, ICP-MS CALSTD 2
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Mo	20.000	1.0000
Sb	20.000	1.0000
Sn	20.000	1.0000

STD6062-09, ICP-MS HIGH LR STD2

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024
Volume (ml): 10.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)

Parent Std No.: STD3111-09, ICP-MS CALSTD 3
Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	100.00
Ca	2,000.0	100.00
Fe	2,000.0	100.00
K	2,000.0	100.00
Mg	2,000.0	100.00
Na	2,000.0	100.00

Parent Std No.: STD3112-09, ICP-MS BRC CALSTD 1 Aliquot Amount (ml): 0.5000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Nb	40.000	2.0000
Pd	20.000	1.0000
Pt	20.000	1.0000
W	20.000	1.0000

STD6063-09, ICP-MS HIGH ICV STD

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 50.000
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)
Date Expires(2): 04-21-2010 (None)

Parent Std No.: STD3113-09, ICP-MS TA ICV A Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
As	20.000	0.0400
Ba	20.000	0.0400
Be	20.000	0.0400
Cd	20.000	0.0400
Co	20.000	0.0400
Cr	20.000	0.0400
Cu	20.000	0.0400
Mn	20.000	0.0400
Ni	20.000	0.0400
Pb	20.000	0.0400
Se	20.000	0.0400
Th	20.000	0.0400
Tl	20.000	0.0400
U	20.000	0.0400
V	20.000	0.0400
Zn	20.000	0.0400

Parent Std No.: STD3114-09, ICP-MS TA ICV B Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Ag	20.000	0.0400
Mo	20.000	0.0400
Sb	20.000	0.0400
Sn	20.000	0.0400

Parent Std No.: STD3115-09, ICP-MS TA ICV Alt Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Al	2,000.0	4.0000
Ca	2,000.0	4.0000
Fe	2,000.0	4.0000
K	2,000.0	4.0000

Mg	2,000.0	4.0000
Na	2,000.0	4.0000

Parent Std No.: STD3116-09, ICP-MS TA ICV BRC Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 04-21-2010 Parent Date Expires(2): 04-21-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Nb	40.000	0.0800
Pd	20.000	0.0400
Pt	20.000	0.0400
W	20.000	0.0400

STD6064-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H14024 Volume (ml): 100.00
Date Prep./Opened: 10-06-2009
Date Expires(1): 10-07-2009 (1 Day)
Date Expires(2): 05-01-2010 (None)
pipettes: Met 20

Parent Std No.: STD3106-09, ICP-MS LLCCV 1 Aliquot Amount (ml): 1.0000
Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	0.5000	5.0000
Al	3.0000	30.000
As	0.5000	5.0000
Ba	0.1000	1.0000
Be	0.1000	1.0000
Ca	5.0000	50.000
Cd	0.1000	1.0000
Co	0.1000	1.0000
Cr	0.2000	2.0000
Cu	0.2000	2.0000
Fe	5.0000	50.000
K	10.000	100.00
Mg	5.0000	50.000
Mn	0.1000	1.0000
Na	5.0000	50.000
Ni	0.2000	2.0000
Pb	0.1000	1.0000
Se	0.5000	5.0000
Th	0.2000	2.0000
Tl	0.1000	1.0000
U	0.1000	1.0000
V	0.5000	5.0000
Zn	1.0000	10.000

Parent Std No.: STD3107-09, ICP-MS LLCCV 2 Aliquot Amount (ml): 1.0000

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	0.2000	2.0000
Sb	0.2000	2.0000

Sn	1.0000	10.000

Parent Std No.: STD3108-09, ICP-MS BRC LLCCV 1 Aliquot Amount (ml): 1.0000

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

File
AG100609

Reviewed By: LRD 10/06/2009

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst: TEL**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
3	Cal Blank				1.0	10/06/09 17:32		
4	100 ppb				1.0	10/06/09 17:35		
5	ICV				1.0	10/06/09 17:38		
6	RLIV				1.0	10/06/09 17:41	All+RL Al,Fe,W. [illegible] 10/7/09	
7	ICB				1.0	10/06/09 17:44		
8	RL STD				1.0	10/06/09 17:47		
9	AFCEE RL				1.0	10/06/09 17:49		
10	ALTSe				1.0	10/06/09 17:52		
11	ICSA				1.0	10/06/09 17:55		
12	ICSAB				1.0	10/06/09 17:58		
13	RINSE				1.0	10/06/09 18:01		
14	LR1				1.0	10/06/09 18:04	-All but Al,Fe,W. [illegible] 10/7/09	
15	RINSE				1.0	10/06/09 18:07		
16	LR2				1.0	10/06/09 18:10	-Al,Fe,W only. [illegible] 10/7/09	
17	RINSE				1.0	10/06/09 18:13		
18	CCV				1.0	10/06/09 18:16		
19	CCB				1.0	10/06/09 18:18		
20	RLCV				1.0	10/06/09 18:21		
21	~~IDL 1~~				~~1.0~~	~~10/06/09 18:24~~		
22	IDL 2				1.0	10/06/09 18:27		
23	IDL 3				1.0	10/06/09 18:30		
24	~~Cal Blank~~				~~1.0~~	~~10/06/09 18:33~~	[illegible] 10/7/09 Did not use.	
25	Cal Blank				1.0	10/06/09 18:36		
26	100 ppb				1.0	10/06/09 18:39		
27	CCV				1.0	10/06/09 18:42		
28	CCB				1.0	10/06/09 18:45		
29	RLCV				1.0	10/06/09 18:48		
30	~~IDL 1~~				~~1.0~~	~~10/06/09 18:50~~		
31	IDL 2				1.0	10/06/09 18:53		
32	IDL 3				1.0	10/06/09 18:56		
33	IDL 4				1.0	10/06/09 18:59		
34	IDL 5				1.0	10/06/09 19:02		
35	IDL 6				1.0	10/06/09 19:05		
36	~~IDL 7~~				~~1.0~~	~~10/06/09 19:08~~	[illegible] 10/7/09 did not use.	
37	CCV				1.0	10/06/09 19:11		
38	CCB				1.0	10/06/09 19:14		
39	RLCV				1.0	10/06/09 19:17		
40	LLJ4J	F9I260143-1	9271316	MS	1.0	10/06/09 19:20		
41	CCV				1.0	10/06/09 19:23		
42	CCB				1.0	10/06/09 19:26		
43	RLCV				1.0	10/06/09 19:28		
44	LLAPGF 2X	D9I230165-5	9267352	MD	2.0	10/06/09 19:31		
45	LLAPJF 2X	D9I230165-6	9267352	MD	2.0	10/06/09 19:34		
46	LLAPJP10F	D9I230165	9267352		10.0	10/06/09 19:37		
47	LLAPJZF	D9I230165-6	9267352		1.0	10/06/09 19:40		
48	LLAPJSF 2X	D9I230165-6	9267352	MD	2.0	10/06/09 19:43		

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RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	LLAPJDF 2X	D9I230165-6	9267352	MD	2.0	10/06/09 19:46		☐
50	CCV				1.0	10/06/09 19:49		☐
51	CCB				1.0	10/06/09 19:52		☐
52	RLCV				1.0	10/06/09 19:55		☐
53	~~LLMPTBF~~	~~D9I290000~~	~~9272101~~	~~MD~~	~~1.0~~	~~10/06/09 19:58~~		☐
54	LLMPTCF	D9I290000	9272101	MD	1.0	10/06/09 20:01		☐
55	LLD23F	D9I240174-1	9272101	MD	1.0	10/06/09 20:03		☐
56	LLD4VF	D9I240174-2	9272101	MD	1.0	10/06/09 20:06		☐
57	LLD4VP5F	D9I240174	9272101		5.0	10/06/09 20:09		☐
58	LLD4VZF	D9I240174-2	9272101		1.0	10/06/09 20:12		☐
59	LLD4VSF	D9I240174-2	9272101	MD	1.0	10/06/09 20:15		☐
60	LLD4VDF	D9I240174-2	9272101	MD	1.0	10/06/09 20:18		☐
61	CCV				1.0	10/06/09 20:21		☐
62	CCB				1.0	10/06/09 20:24		☐
63	RLCV				1.0	10/06/09 20:27		☐
64	LLRNEB	D9J010000	9274113	MS	1.0	10/06/09 20:30		☐
65	LLRNEC	D9J010000	9274113	MS	1.0	10/06/09 20:33		☐
66	LLP3G 100X	F9I300170-1	9274113	MS	100	10/06/09 20:36		☐
67	LLP3P 40X	F9I300170-3	9274113	MS	40.0	10/06/09 20:39		☐
68	LLP3V 40X	F9I300170-5	9274113	MS	40.0	10/06/09 20:42		☐
69	~~Cal Blank~~				~~1.0~~	~~10/06/09 20:46~~	VF 10/7/09 Did not use.	☐
70	Cal Blank				1.0	10/06/09 20:48		☐
71	100 ppb				1.0	10/06/09 20:51		☐
72	CCV				1.0	10/06/09 20:54		☐
73	CCB				1.0	10/06/09 20:57		☐
74	RLCV				1.0	10/06/09 21:00		☐
75	LLMPTBF	D9I290000	9272101	MD	1.0	10/06/09 21:03		☐
76	LLMPTCF	D9I290000	9272101	MD	1.0	10/06/09 21:06		☐
77	LLD23F	D9I240174-1	9272101	MD	1.0	10/06/09 21:09		☐
78	LLD4VF	D9I240174-2	9272101	MD	1.0	10/06/09 21:12		☐
79	LLD4VP5F	D9I240174	9272101		5.0	10/06/09 21:15		☐
80	LLD4VZF	D9I240174-2	9272101		1.0	10/06/09 21:18		☐
81	LLD4VSF	D9I240174-2	9272101	MD	1.0	10/06/09 21:21		☐
82	LLD4VDF	D9I240174-2	9272101	MD	1.0	10/06/09 21:24		☐
83	CCV				1.0	10/06/09 21:26		☐
84	CCB				1.0	10/06/09 21:29		☐
85	RLCV				1.0	10/06/09 21:32		☐
86	LLRNEB	D9J010000	9274113	MS	1.0	10/06/09 21:35		☐
87	LLRNEC	D9J010000	9274113	MS	1.0	10/06/09 21:38		☐
88	LLP3G 100X	F9I300170-1	9274113	MS	100	10/06/09 21:41		☐
89	LLP3P 40X	F9I300170-3	9274113	MS	40.0	10/06/09 21:44		☐
90	LLP3V 40X	F9I300170-5	9274113	MS	40.0	10/06/09 21:47		☐
91	CCV				1.0	10/06/09 21:50		☐
92	CCB				1.0	10/06/09 21:53		☐
93	RLCV				1.0	10/06/09 21:56		☐
94	ICSA				1.0	10/06/09 21:59		☐

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
95	ICSAB				1.0	10/06/09 22:02		☐
96	WASH				1.0	10/06/09 22:05		☐
97	CCV				1.0	10/06/09 22:08		☐
98	CCB				1.0	10/06/09 22:11		☐
99	RLCV				1.0	10/06/09 22:14		☐
100	LLP30 5X	F9I300170-7	9274113	MS	5.0	10/06/09 22:17		☐
101	LLP38 100X	F9I300170-9	9274113	MS	100	10/06/09 22:20		☐
102	LLP4D 5X	F9I300170-11	9274113	MS	5.0	10/06/09 22:23		☐
103	LLP4DP25	F9I300170	9274113		25.0	10/06/09 22:26		☐
104	CCV				1.0	10/06/09 22:28		☐
105	CCB				1.0	10/06/09 22:31		☐
106	RLCV				1.0	10/06/09 22:34		☐
107	LLP4DZ	F9I300170-11	9274113		1.0	10/06/09 22:37		☐
108	LLP4DS 5X	F9I300170-11	9274113	MS	5.0	10/06/09 22:40		☐
109	LLP4DD 5X	F9I300170-11	9274113	MS	5.0	10/06/09 22:43		☐
110	LLP4L 5X	F9I300170-13	9274113	MS	5.0	10/06/09 22:46		☐
111	LLP52 5X	F9I300170-15	9274113	MS	5.0	10/06/09 22:49		☐
112	LLP57 2X	F9I300170-17	9274113	MS	2.0	10/06/09 22:52		☐
113	LLP6D 100X	F9I300170-19	9274113	MS	100	10/06/09 22:55		☐
114	LLP6J 2X	F9I300170-21	9274113	MS	2.0	10/06/09 22:58		☐
115	CCV				1.0	10/06/09 23:01		☐
116	CCB				1.0	10/06/09 23:04		☐
117	RLCV				1.0	10/06/09 23:07		☐
118	~~LL1HAB~~	~~D9J050000~~	~~9278227~~	~~MS~~	~~1.0~~	~~10/06/09 23:11~~		☐
119	LL1HAC	D9J050000	9278227	MS	1.0	10/06/09 23:14		☐
120	LLTHA	D9J010197-1	9278227	MS	1.0	10/06/09 23:17		☐
121	LLV5F 10X	D9J020142-1	9278227	MS	10.0	10/06/09 23:20		☐
122	LLV52 5X	D9J020142-2	9278227	MS	5.0	10/06/09 23:22		☐
123	LLV55 10X	D9J020142-3	9278227	MS	10.0	10/06/09 23:25		☐
124	CCV				1.0	10/06/09 23:28		☐
125	CCB				1.0	10/06/09 23:31		☐
126	RLCV				1.0	10/06/09 23:34		☐
127	LLV55P50	D9J020142	9278227		50.0	10/06/09 23:37		☐
128	LLV55Z	D9J020142-3	9278227		1.0	10/06/09 23:40		☐
129	LLV55S 10X	D9J020142-3	9278227	MS	10.0	10/06/09 23:43		☐
130	LLV55D 10X	D9J020142-3	9278227	MS	10.0	10/06/09 23:46		☐
131	LLV57	D9J020142-4	9278227	MS	1.0	10/06/09 23:49		☐
132	CCV				1.0	10/06/09 23:52		☐
133	CCB				1.0	10/06/09 23:55		☐
134	RLCV				1.0	10/06/09 23:58		☐
135	LL1G1B	D9J050000	9278222	04	1.0	10/07/09 00:01		☐
136	LL1G1C	D9J050000	9278222	04	1.0	10/07/09 00:04		☐
137	LLV71	D9J020155-1	9278222	04	1.0	10/07/09 00:07		☐
138	LLV8Q 2X	D9J020155-2	9278222	04	2.0	10/07/09 00:10		☐
139	LLV8W	D9J020155-3	9278222	04	1.0	10/07/09 00:13		☐
140	~~LLV8WP5~~	~~D9J020155~~	~~9278222~~		~~5.0~~	~~10/07/09 00:16~~	KF 10/7/09 Did not use.	☐

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
141	~~LLV8WZ~~	~~D9J020155-3~~	~~9278222~~		~~1.0~~	~~10/07/09 00:18~~		
142	LLV8WS	D9J020155-3	9278222	04	1.0	10/07/09 00:21		
143	CCV				1.0	10/07/09 00:24		
144	CCB				1.0	10/07/09 00:27		
145	RLCV				1.0	10/07/09 00:30		
146	LLV8WD	D9J020155-3	9278222	04	1.0	10/07/09 00:33		
147	LLV8X	D9J020155-4	9278222	04	1.0	10/07/09 00:36		
148	LLV80	D9J020155-5	9278222	04	1.0	10/07/09 00:39		
149	LLV81	D9J020155-6	9278222	04	1.0	10/07/09 00:42		
150	LLV82	D9J020155-7	9278222	04	1.0	10/07/09 00:45		
151	LLV84	D9J020155-8	9278222	04	1.0	10/07/09 00:48		
152	LLV86	D9J020155-9	9278222	04	1.0	10/07/09 00:51		
153	CCV				1.0	10/07/09 00:54		
154	CCB				1.0	10/07/09 00:57		
155	RLCV				1.0	10/07/09 01:00		
156	RINSE				1.0	10/07/09 01:03		
157	RINSE				1.0	10/07/09 01:06		
158	RINSE				1.0	10/07/09 01:09		
159	RINSE				1.0	10/07/09 01:11		
160	RINSE				1.0	10/07/09 01:14		
161	RINSE				1.0	10/07/09 01:17		
162	RINSE				1.0	10/07/09 01:20		
163	~~Cal Blank~~				~~1.0~~	~~10/07/09 01:23~~	KF 10/7/09 Did not use.	
164	Cal Blank				1.0	10/07/09 01:26		
165	100 ppb				1.0	10/07/09 01:29		
166	CCV				1.0	10/07/09 01:32		
167	CCB				1.0	10/07/09 01:35		
168	RLCV				1.0	10/07/09 01:38		
169	LLXQ4B	D9J020000	9275428	MS	1.0	10/07/09 01:41		
170	LLXQ4C	D9J020000	9275428	MS	1.0	10/07/09 01:44		
171	LLR0V 20X	F9J010134-1	9275428	MS	20.0	10/07/09 01:47		
172	LLR0VP100	F9J010134	9275428		100	10/07/09 01:50		
173	LLR0VZ	F9J010134-1	9275428		1.0	10/07/09 01:53	-Se, Cu only. KF 10/7/09	
174	LLR0VS 20X	F9J010134-1	9275428	MS	20.0	10/07/09 01:56		
175	LLR0VD 20X	F9J010134-1	9275428	MS	20.0	10/07/09 01:59		
176	CCV				1.0	10/07/09 02:02		
177	CCB				1.0	10/07/09 02:05		
178	RLCV				1.0	10/07/09 02:08		
179	LLR05 5X	F9J010134-3	9275428	MS	5.0	10/07/09 02:11		
180	LLR1N 5X	F9J010134-5	9275428	MS	5.0	10/07/09 02:14		
181	LLR16 5X	F9J010137-1	9275428	MS	5.0	10/07/09 02:17		
182	LLWNQ 10X	F9J020195-1	9275428	MS	10.0	10/07/09 02:20		
183	LLWPF 10X	F9J020195-3	9275428	MS	10.0	10/07/09 02:23		
184	LLWPT 10X	F9J020195-5	9275428	MS	10.0	10/07/09 02:25		
185	CCV				1.0	10/07/09 02:29		
186	CCB				1.0	10/07/09 02:31		

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
187	RLCV				1.0	10/07/09 02:34		
188	LL1TVBF	D9J050000	9278349	MD	1.0	10/07/09 02:37		
189	LL1TVCF	D9J050000	9278349	MD	1.0	10/07/09 02:40		
190	LLXVXF	D9J020307-2	9278349	MD	1.0	10/07/09 02:43		
191	LLXV3F	D9J020307-3	9278349	MD	1.0	10/07/09 02:46		
192	LLXV3P5F	D9J020307	9278349		5.0	10/07/09 02:49		
193	LLXV3ZF	D9J020307-3	9278349		1.0	10/07/09 02:52		
194	LLXV3SF	D9J020307-3	9278349	MD	1.0	10/07/09 02:55		
195	LLXV3DF	D9J020307-3	9278349	MD	1.0	10/07/09 02:58		
196	LLXWQF	D9J020307-15	9278349	MD	1.0	10/07/09 03:01		
197	LLXWRF	D9J020307-16	9278349	MD	1.0	10/07/09 03:04		
198	CCV				1.0	10/07/09 03:07		
199	CCB				1.0	10/07/09 03:10		
200	RLCV				1.0	10/07/09 03:13		
201	~~RINSE~~				~~1.0~~	~~10/07/09 03:16~~		
202	RINSE				1.0	10/07/09 03:18		
203	RINSE				1.0	10/07/09 03:21		
204	RINSE				1.0	10/07/09 03:24		
205	RINSE				1.0	10/07/09 03:27		
206	RINSE				1.0	10/07/09 03:30		
207	RINSE				1.0	10/07/09 03:33		
208	~~Cal Blank~~				~~1.0~~	~~10/07/09 03:36~~	NF 10/7/09	
209	Cal Blank				1.0	10/07/09 03:39		
210	100 ppb				1.0	10/07/09 03:42		
211	CCV				1.0	10/07/09 03:45		
212	CCB				1.0	10/07/09 03:48		
213	RLCV				1.0	10/07/09 03:51		
214	LL1QXB	D9J050000	9278310	MS	1.0	10/07/09 03:54		
215	LL1QXC	D9J050000	9278310	MS	1.0	10/07/09 03:57		
216	LLM9W	D9I290162-2	9278310	MS	1.0	10/07/09 04:00		
217	LLQPH	D9I300226-1	9278310	MS	1.0	10/07/09 04:03		
218	LLQPHP5	D9I300226	9278310		5.0	10/07/09 04:06		
219	LLQPHZ	D9I300226-1	9278310		1.0	10/07/09 04:09		
220	LLQPHS	D9I300226-1	9278310	MS	1.0	10/07/09 04:11		
221	LLQPHD	D9I300226-1	9278310	MS	1.0	10/07/09 04:14		
222	LLQQX	D9I300226-8	9278310	MS	1.0	10/07/09 04:17		
223	CCV				1.0	10/07/09 04:20		
224	CCB				1.0	10/07/09 04:23		
225	RLCV				1.0	10/07/09 04:26		
226	LL1J7B	D9J050000	9278251	MS	1.0	10/07/09 04:29		
227	LL1J7C	D9J050000	9278251	MS	1.0	10/07/09 04:32		
228	LL0FG	D9J030137-1	9278251	MS	1.0	10/07/09 04:35		
229	LL0FGP5	D9J030137	9278251		5.0	10/07/09 04:38		
230	LL0FGZ	D9J030137-1	9278251		1.0	10/07/09 04:41		
231	LL0FGS	D9J030137-1	9278251	MS	1.0	10/07/09 04:44		
232	LL0FGD	D9J030137-1	9278251	MS	1.0	10/07/09 04:47		

Denver

RUN SUMMARY

Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
233	LL0FJ	D9J030138-1	9278251	MS	1.0	10/07/09 04:50		☐
234	LL0FK	D9J030138-2	9278251	MS	1.0	10/07/09 04:53		☐
235	CCV				1.0	10/07/09 04:56		☐
236	CCB				1.0	10/07/09 04:59		☐
237	RLCV				1.0	10/07/09 05:02		☐
238	LL1WMB	D9J050000	9278373	04	1.0	10/07/09 05:05		☐
239	LL1WMC	D9J050000	9278373	04	1.0	10/07/09 05:08		☐
240	LLR1J	D9J010136-1	9278373	04	1.0	10/07/09 05:11		☐
241	LLR1L	D9J010136-2	9278373	04	1.0	10/07/09 05:14		☐
242	LLR1M	D9J010136-3	9278373	04	1.0	10/07/09 05:17		☐
243	LLR1P	D9J010136-4	9278373	04	1.0	10/07/09 05:20		☐
244	LLR1PP5	D9J010136	9278373		5.0	10/07/09 05:23		☐
245	LLR1PZ	D9J010136-4	9278373		1.0	10/07/09 05:26		☐
246	CCV				1.0	10/07/09 05:28		☐
247	CCB				1.0	10/07/09 05:31		☐
248	RLCV				1.0	10/07/09 05:34		☐
249	LLR1PS	D9J010136-4	9278373	04	1.0	10/07/09 05:37		☐
250	LLR1PD	D9J010136-4	9278373	04	1.0	10/07/09 05:40		☐
251	LLR1Q	D9J010136-5	9278373	04	1.0	10/07/09 05:43		☐
252	LLR1R	D9J010136-6	9278373	04	1.0	10/07/09 05:46		☐
253	LLR1T	D9J010136-7	9278373	04	1.0	10/07/09 05:49		☐
254	LLTF1	D9J010188-1	9278373	04	1.0	10/07/09 05:52		☐
255	LLV66	D9J020147-2	9278373	04	1.0	10/07/09 05:55		☐
256	LLX9K	D9J030121-4	9278373	04	1.0	10/07/09 05:58		☐
257	CCV				1.0	10/07/09 06:01		☐
258	CCB				1.0	10/07/09 06:04		☐
259	RLCV				1.0	10/07/09 06:07		☐
260	~~RINSE~~				1.0	~~10/07/09 06:10~~		☐
261	RINSE				1.0	10/07/09 06:13		☐
262	RINSE				1.0	10/07/09 06:16		☐
263	RINSE				1.0	10/07/09 06:19		☐
264	RINSE				1.0	10/07/09 06:21		☐
265	RINSE				1.0	10/07/09 06:24		☐
266	RINSE				1.0	10/07/09 06:27		☐
267	~~Cal Blank~~				1.0	~~10/07/09 06:30~~	VF 10/7/09	☐
268	Cal Blank				1.0	10/07/09 06:33		☐
269	100 ppb				1.0	10/07/09 06:36		☐
270	CCV				1.0	10/07/09 06:39		☐
271	CCB				1.0	10/07/09 06:42		☐
272	RLCV				1.0	10/07/09 06:45		☐
273	LL2CGBF	D9J060000	9279104	MD	1.0	10/07/09 06:48		☐
274	LL2CGCF	D9J060000	9279104	MD	1.0	10/07/09 06:51		☐
275	LLV66F	D9J020147-2	9279104	MD	1.0	10/07/09 06:54		☐
276	LLV66P5F	D9J020147	9279104		5.0	10/07/09 06:57		☐
277	LLV66ZF	D9J020147-2	9279104		1.0	10/07/09 07:00		☐
278	LLV66SF	D9J020147-2	9279104	MD	1.0	10/07/09 07:03		☐

Denver

RUN SUMMARY

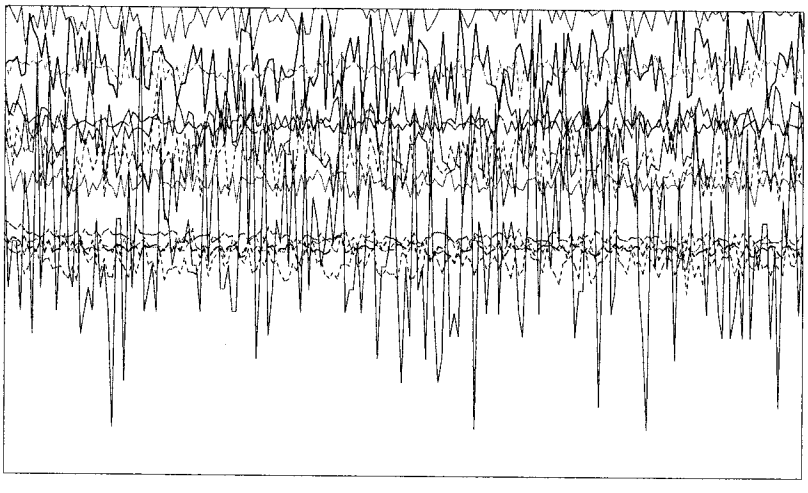
Method: 6020 (ICP/MS) | ICPMS_024 (024) | Reported: 10/07/09 11:21:21

File ID: AG100609 **Analyst:** TEL

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
279	LLV66DF	D9J020147-2	9279104	MD	1.0	10/07/09 07:06		☐
280	LLX9KF	D9J030121-4	9279104	MD	1.0	10/07/09 07:09		☐
281	CCV				1.0	10/07/09 07:12		☐
282	CCB				1.0	10/07/09 07:15		☐
283	RLCV				1.0	10/07/09 07:18		☐
284	LL1TLB	D9J050000	9278342	MS	1.0	10/07/09 07:21		☐
285	LL1TLC	D9J050000	9278342	MS	1.0	10/07/09 07:23		☐
286	LLXVM	D9J020307-1	9278342	MS	1.0	10/07/09 07:26		☐
287	LLXVX	D9J020307-2	9278342	MS	1.0	10/07/09 07:29		☐
288	LLXV3	D9J020307-3	9278342	MS	1.0	10/07/09 07:32		☐
289	LLXV7	D9J020307-4	9278342	MS	1.0	10/07/09 07:35		☐
290	LLXWC	D9J020307-5	9278342	MS	1.0	10/07/09 07:38		☐
291	LLXWD	D9J020307-6	9278342	MS	1.0	10/07/09 07:41		☐
292	LLXWG	D9J020307-8	9278342	MS	1.0	10/07/09 07:44		☐
293	CCV				1.0	10/07/09 07:47		☐
294	CCB				1.0	10/07/09 07:50		☐
295	RLCV				1.0	10/07/09 07:53		☐
296	LLXWJ	D9J020307-9	9278342	MS	1.0	10/07/09 07:56		☐
297	LLXWK	D9J020307-10	9278342	MS	1.0	10/07/09 07:59		☐
298	LLXWL	D9J020307-11	9278342	MS	1.0	10/07/09 08:02		☐
299	LLXWM	D9J020307-12	9278342	MS	1.0	10/07/09 08:05		☐
300	LLXWN	D9J020307-13	9278342	MS	1.0	10/07/09 08:08		☐
301	LLXWP	D9J020307-14	9278342	MS	1.0	10/07/09 08:11		☐
302	LLXWQ	D9J020307-15	9278342	MS	1.0	10/07/09 08:14		☐
303	LLXWR	D9J020307-16	9278342	MS	1.0	10/07/09 08:17		☐
304	CCV				1.0	10/07/09 08:20		☐
305	CCB				1.0	10/07/09 08:23		☐
306	RLCV				1.0	10/07/09 08:26		☐
307	LLXWV	D9J020307-17	9278342	MS	1.0	10/07/09 08:29		☐
308	LLXWW	D9J020307-18	9278342	MS	1.0	10/07/09 08:32		☐
309	LLXWWP5	D9J020307	9278342		5.0	10/07/09 08:34		☐
310	LLXWWZ	D9J020307-18	9278342		1.0	10/07/09 08:37		☐
311	LLXWWS	D9J020307-18	9278342	MS	1.0	10/07/09 08:40		☐
312	LLXWWD	D9J020307-18	9278342	MS	1.0	10/07/09 08:43		☐
313	LLXXA	D9J020307-19	9278342	MS	1.0	10/07/09 08:46		☐
314	LLXXF	D9J020307-20	9278342	MS	1.0	10/07/09 08:49		☐
315	CCV				1.0	10/07/09 08:52		☐
316	CCB				1.0	10/07/09 08:55		☐
317	RLCV				1.0	10/07/09 08:58		☐
318	~~RINSE~~				~~1.0~~	~~10/07/09 09:01~~		☐
319	~~RINSE~~				~~1.0~~	~~10/07/09 09:04~~	VL 10/7/09	☐

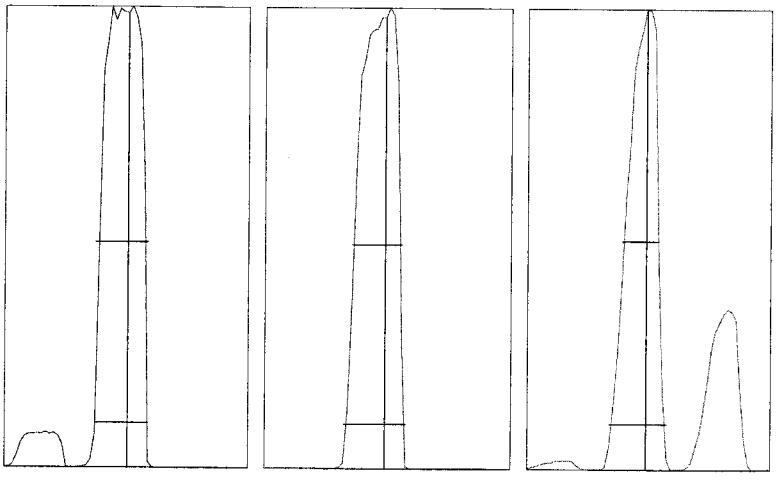
Tune Report

Tune File : NORM.U
Comment :



Integration Time:	0.1000 sec	
Sampling Period:	1.5300 sec	
n:	200	
Oxide:	156/140	1.285%
Doubly Charged:	70/140	0.975%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1538.0	1533.7	4.40	0.70
7	20,000	19152.0	19974.3	4.19	0.90
59	50,000	31704.0	31696.2	3.08	1.50
63	200	141.0	141.2	9.05	1.50
70	500	456.0	441.8	6.88	1.20
75	20	11.0	10.1	36.53	1.10
78	1,000	462.0	458.0	5.23	1.20
89	100,000	48065.0	49473.3	2.42	1.80
115	50,000	42014.0	43472.4	2.11	2.10
118	500	347.0	339.8	5.87	2.30
137	10,000	5037.0	4900.4	2.47	2.60
205	50,000	26409.0	25777.8	1.85	4.00
238	50,000	38491.0	37778.7	1.77	4.50
156/140	2	1.325%	1.315%	6.51	
70/140	2	1.035%	1.019%	7.46	



m/z:	7	89	205
Height:	20,170	49,698	26,584
Axis:	7.05	89.00	205.00
W-50%:	0.65	0.60	0.45
W-10%:	0.6500	0.7500	0.700

Integration Time:	0.1000 sec
Acquisition Time:	22.7600 sec

Y axis : Linear

Tune Report

Tune File : NORM.U
Comment :

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	: 1600	W	Extract 1	: 0	V	AMU Gain	: 133	
RF Matching	: 1.7	V	Extract 2	: -170	V	AMU Offset	: 124	
Smpl Depth	: 8	mm	Omega Bias-ce	: -30	V	Axis Gain	: 1.0006	
Torch-H	: -0.8	mm	Omega Lens-ce	: 1.4	V	Axis Offset	: -0.03	
Torch-V	: -0.3	mm	Cell Entrance	: -30	V	QP Bias	: -3	V
Carrier Gas	: 0.83	L/min	QP Focus	: 7	V			
Makeup Gas	: 0.23	L/min	Cell Exit	: -30	V	===Detector Parameters===		
Optional Gas	: ---	%				Discriminator	: 8	mV
Nebulizer Pump	: 0.1	rps	===Octopole Parameters===			Analog HV	: 1770	V
Sample Pump	: ---	rps	OctP RF	: 180	V	Pulse HV	: 1480	V
S/C Temp	: 2	degC	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:Oct 6 2009 05:06 pm

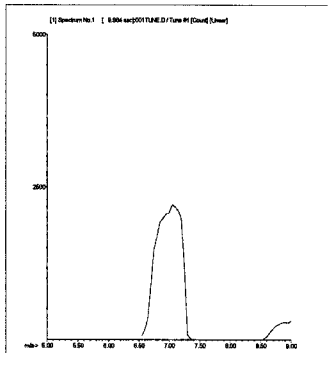
Mass[amu]	Element	P/A Factor
6	Li	0.053222
7	(Li)	Sensitivity too low
9	Be	0.059399
23	Na	0.066047
24	Mg	0.067927
27	Al	0.069443
39	K	0.069174
43	Ca	Sensitivity too low
45	Sc	0.069829
51	V	0.071015
52	Cr	0.072606
53	(Cr)	Sensitivity too low
55	Mn	0.073588
57	Fe	Sensitivity too low
59	Co	0.075693
60	Ni	0.076632
63	Cu	0.077698
66	Zn	0.077415
72	Ge	0.077157
75	As	0.076681
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
93	Nb	Sensitivity too low
95	Mo	0.078214
98	(Mo)	0.077580
99	(Mo)	0.078379
105	Pd	0.080002
106	(Cd)	0.079790
107	Ag	Sensitivity too low
108	(Cd)	0.080500
111	Cd	0.080485
115	In	0.079331
118	Sn	0.079722
121	Sb	0.079712
137	Ba	0.080483
165	Ho	Sensitivity too low
182	W	Sensitivity too low
195	Pt	Sensitivity too low
205	Tl	0.084960
206	(Pb)	0.083816
207	(Pb)	0.084039
208	Pb	0.082861
232	Th	0.082539
238	U	0.082684

===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1770 V
Pulse HV: 1480 V

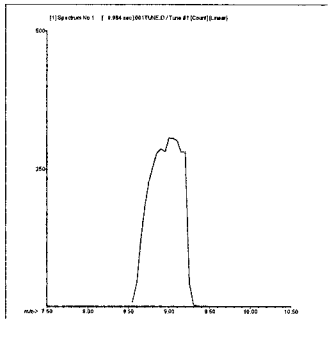
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\001TUNE.D
Date Acquired: Oct 6 2009 05:26 pm
Acq. Method: tun_isis.M
Operator: TEL
Sample Name: 200.8 TUNE
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	22475	22546	22281	22331	22556	22661	0.72	5.00	
9 Be	3208	3163	3185	3193	3226	3274	1.35	5.00	
24 Mg	19196	19341	18833	19364	19211	19232	1.11	5.00	
59 Co	93079	93452	92838	94803	91798	92504	1.22	5.00	
115 In	1511022	1504949	1520840	1509967	1510439	1508914	0.39	5.00	
208 Pb	85672	86274	84872	86032	85730	85452	0.64	5.00	
238 U	171308	174367	172886	168992	169448	170844	1.33	5.00	

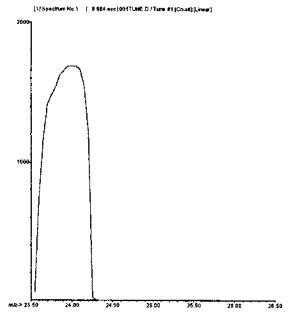


7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



9 Be
Mass Calib.
Actual: 9.00
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

C:\ICPCHEM\1\DATA\AG100609.B\001TUNE.D



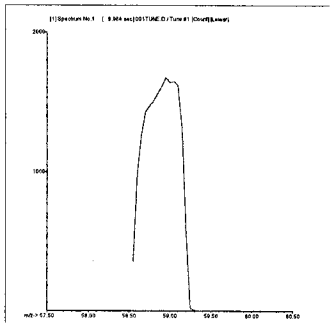
24 Mg

Mass Calib.

Actual:	24.00		
Required:	23.90	-	24.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



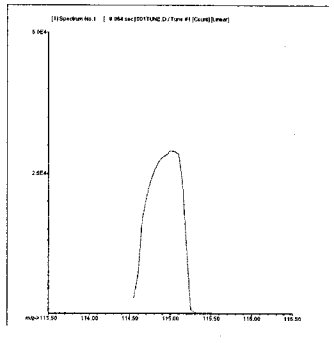
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



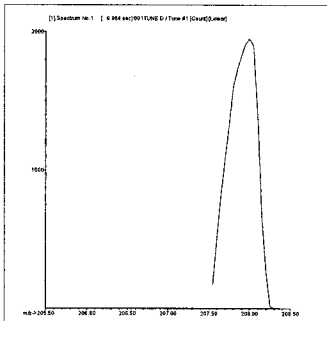
115 In

Mass Calib.

Actual:	115.00		
Required:	114.90	-	115.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



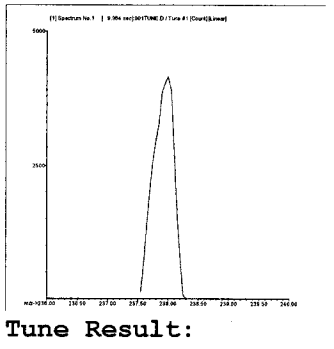
208 Pb

Mass Calib.

Actual:	207.95		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.55		
Required:	0.90		
Flag:			



238 U

Mass Calib.

Actual:	237.95		
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\AG100609.B\002CALB.D\002CALB.D#
Date Acquired: Oct 6 2009 05:29 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:30 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	352721	0.33
24	Mg	6	1	4091	3.88
27	Al	45	1	6718	3.62
39	K	45	1	339464	0.39
43	Ca	45	1	43	48.04
51	V	72	1	-25	699.43
52	Cr	72	1	3831	1.97
55	Mn	72	1	847	6.72
57	Fe	72	1	1220	9.01
59	Co	72	1	80	43.30
60	Ni	72	1	183	12.60
63	Cu	72	1	373	8.18
66	Zn	72	1	851	2.18
75	As	72	1	43	7.16
78	Se	72	1	630	5.72
93	Nb	115	1	2884	26.20
95	Mo	115	1	227	25.85
105	Pd	115	1	23	24.74
107	Ag	115	1	7	86.60
111	Cd	115	1	7	86.60
118	Sn	115	1	340	10.60
121	Sb	115	1	33	20.00
137	Ba	115	1	24	43.84
182	W	165	1	830	2.41
195	Pt	165	1	210	28.97
205	Tl	165	1	283	15.29
208	Pb	165	1	388	4.89
232	Th	165	1	320	8.27
238	U	165	1	144	8.74

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	432902	0.86
45	Sc	1	2003551	0.35
72	Ge	1	974140	0.33
115	In	1	2674722	0.58
165	Ho	1	4310831	0.30

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\AG100609.B\003CALB.D\003CALB.D#
Date Acquired: Oct 6 2009 05:32 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:30 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	348908	0.48
24	Mg	6	1	883	16.10
27	Al	45	1	52330	0.75
39	K	45	1	345707	1.08
43	Ca	45	1	23	89.21
51	V	72	1	356	37.38
52	Cr	72	1	4101	2.24
55	Mn	72	1	750	10.07
57	Fe	72	1	627	6.45
59	Co	72	1	103	22.35
60	Ni	72	1	140	35.71
63	Cu	72	1	433	20.94
66	Zn	72	1	751	6.70
75	As	72	1	55	12.85
78	Se	72	1	683	12.27
93	Nb	115	1	2420	22.50
95	Mo	115	1	87	13.32
105	Pd	115	1	10	100.00
107	Ag	115	1	27	57.28
111	Cd	115	1	6	34.64
118	Sn	115	1	280	28.57
121	Sb	115	1	62	29.51
137	Ba	115	1	39	4.95
182	W	165	1	707	7.79
195	Pt	165	1	213	35.80
205	Tl	165	1	179	17.31
208	Pb	165	1	357	4.07
232	Th	165	1	277	18.55
238	U	165	1	31	62.78

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	465255	1.29
45	Sc	1	2085166	1.86
72	Ge	1	990903	0.42
115	In	1	2708507	0.31
165	Ho	1	4305677	1.11

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\AG100609.B\004ICAL.D\004ICAL.D#
Date Acquired: Oct 6 2009 05:35 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:33 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	62833	1.83
23	Na	6	1	45248792	1.22
24	Mg	6	1	28431040	1.37
27	Al	45	1	25909150	2.13
39	K	45	1	44897300	1.46
43	Ca	45	1	113472	1.30
51	V	72	1	1214306	1.39
52	Cr	72	1	1203178	1.23
55	Mn	72	1	1370599	1.18
57	Fe	72	1	3120393	0.84
59	Co	72	1	1490822	1.03
60	Ni	72	1	329991	0.95
63	Cu	72	1	782134	0.78
66	Zn	72	1	182519	0.63
75	As	72	1	151145	1.16
78	Se	72	1	27264	1.64
93	Nb	115	1	3988561	1.74
95	Mo	115	1	408497	1.35
105	Pd	115	1	520277	1.38
107	Ag	115	1	1145398	1.00
111	Cd	115	1	235247	0.56
118	Sn	115	1	651257	0.62
121	Sb	115	1	765833	0.31
137	Ba	115	1	315265	0.79
182	W	165	1	1054146	0.58
195	Pt	165	1	689473	0.21
205	Tl	165	1	2294336	0.55
208	Pb	165	1	3117004	0.20
232	Th	165	1	3310166	0.55
238	U	165	1	3437403	1.40

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	442244	1.44	465255	95.1	30 - 120	
45	Sc	1	1970414	0.78	2085166	94.5	30 - 120	
72	Ge	1	945836	1.90	990903	95.5	30 - 120	
115	In	1	2569855	0.81	2708507	94.9	30 - 120	
165	Ho	1	4183884	0.74	4305677	97.2	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\AG100609.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\AG100609.B\005_ICV.D\005_ICV.D#
Date Acquired: Oct 6 2009 05:38 pm
Operator: TEL
Sample Name: ICV
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: ICV
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	39.77	ppb	2.64	40	99.4	90 - 110	
23 Na	6	1	4058.00	ppb	2.47	4000	101.5	90 - 110	
24 Mg	6	1	4082.00	ppb	2.58	4000	102.1	90 - 110	
27 Al	45	1	3987.00	ppb	2.18	4000	99.7	90 - 110	
39 K	45	1	3949.00	ppb	2.50	4000	98.7	90 - 110	
43 Ca	45	1	3973.00	ppb	0.62	4000	99.3	90 - 110	
51 V	72	1	39.38	ppb	2.42	40	98.5	90 - 110	
52 Cr	72	1	40.41	ppb	1.74	40	101.0	90 - 110	
55 Mn	72	1	41.36	ppb	1.59	40	103.4	90 - 110	
57 Fe	72	1	4252.00	ppb	3.14	4000	106.3	90 - 110	
59 Co	72	1	40.11	ppb	3.45	40	100.3	90 - 110	
60 Ni	72	1	40.64	ppb	3.99	40	101.6	90 - 110	
63 Cu	72	1	40.86	ppb	3.33	40	102.2	90 - 110	
66 Zn	72	1	40.43	ppb	2.27	40	101.1	90 - 110	
75 As	72	1	39.77	ppb	3.20	40	99.4	90 - 110	
78 Se	72	1	40.29	ppb	1.67	40	100.7	90 - 110	
93 Nb	115	1	73.05	ppb	2.15	80	91.3	90 - 110	
95 Mo	115	1	40.57	ppb	1.91	40	101.4	90 - 110	
105 Pd	115	1	40.77	ppb	1.77	40	101.9	90 - 110	
107 Ag	115	1	40.68	ppb	2.16	40	101.7	90 - 110	
111 Cd	115	1	39.99	ppb	1.58	40	100.0	90 - 110	
118 Sn	115	1	39.97	ppb	1.32	40	99.9	90 - 110	
121 Sb	115	1	39.84	ppb	1.31	40	99.6	90 - 110	
137 Ba	115	1	39.97	ppb	2.12	40	99.9	90 - 110	
182 W	165	1	39.51	ppb	2.13	40	98.8	90 - 110	
195 Pt	165	1	40.44	ppb	2.35	40	101.1	90 - 110	
205 Tl	165	1	41.18	ppb	1.33	40	103.0	90 - 110	
208 Pb	165	1	41.67	ppb	1.40	40	104.2	90 - 110	
232 Th	165	1	40.51	ppb	0.96	40	101.3	90 - 110	
238 U	165	1	40.66	ppb	1.60	40	101.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	464961	1.65	465255	99.9	30 - 120	
45 Sc	1	2074638	0.19	2085166	99.5	30 - 120	
72 Ge	1	969853	2.29	990903	97.9	30 - 120	
115 In	1	2636292	1.22	2708507	97.3	30 - 120	
165 Ho	1	4215716	0.83	4305677	97.9	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\AG100609.B\003CALB.D\003CALB.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\AG100609.B\006WASH.D\006WASH.D#
Date Acquired: Oct 6 2009 05:41 pm
Operator: TEL
Sample Name: RLIV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.998 ppb	7.39	1.30	
23 Na	6	1	47.570 ppb	3.41	65.00	
24 Mg	6	1	55.570 ppb	2.09	65.00	
27 Al	45	1	15.620 ppb	6.01	39.00	
39 K	45	1	106.700 ppb	1.57	130.00	
43 Ca	45	1	56.910 ppb	13.28	65.00	
51 V	72	1	5.175 ppb	0.40	6.50	
52 Cr	72	1	2.181 ppb	1.55	2.60	
55 Mn	72	1	1.096 ppb	3.59	1.30	
57 Fe	72	1	57.310 ppb	1.74	65.00	
59 Co	72	1	1.089 ppb	1.39	1.30	
60 Ni	72	1	2.214 ppb	2.85	2.60	
63 Cu	72	1	2.204 ppb	2.23	2.60	
66 Zn	72	1	10.560 ppb	0.59	13.00	
75 As	72	1	5.276 ppb	0.41	6.50	
78 Se	72	1	5.396 ppb	5.88	6.50	
93 Nb	115	1	52.490 ppb	1.11	52.00	
95 Mo	115	1	2.103 ppb	2.02	2.60	
105 Pd	115	1	0.904 ppb	7.13	1.30	
107 Ag	115	1	5.506 ppb	2.95	6.50	
111 Cd	115	1	1.040 ppb	1.08	1.30	
118 Sn	115	1	10.610 ppb	1.93	13.00	
121 Sb	115	1	2.249 ppb	2.24	2.60	
137 Ba	115	1	1.064 ppb	2.70	1.30	
182 W	165	1	5.156 ppb	1.35	6.50	
195 Pt	165	1	1.028 ppb	4.33	1.30	
205 Tl	165	1	1.194 ppb	0.49	1.30	
208 Pb	165	1	1.140 ppb	0.76	1.30	
232 Th	165	1	2.595 ppb	6.11	2.60	
238 U	165	1	1.151 ppb	0.82	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	479706	0.93	465255	103.1	30 - 120	
45 Sc	1	2114855	1.06	2085166	101.4	30 - 120	
72 Ge	1	992825	1.33	990903	100.2	30 - 120	
115 In	1	2718378	1.56	2708507	100.4	30 - 120	
165 Ho	1	4262763	0.53	4305677	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\003CALB.D\003CALB.D#

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

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\007_ICB.D\007_ICB.D#
Date Acquired: Oct 6 2009 05:44 pm
Operator: TEL
Sample Name: ICB
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: ICB
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	0.00	ppb	0.00	1.00	
23 Na	6	1	-8.58	ppb	5.26	20.00	
24 Mg	6	1	0.12	ppb	42.78	20.00	
27 Al	45	1	-16.71	ppb	0.39	20.00	
39 K	45	1	-0.21	ppb	674.82	20.00	
43 Ca	45	1	-0.05	ppb	1068.60	20.00	
51 V	72	1	-0.03	ppb	70.60	1.00	
52 Cr	72	1	-0.01	ppb	199.80	1.00	
55 Mn	72	1	0.00	ppb	157.69	1.00	
57 Fe	72	1	0.52	ppb	60.50	20.00	
59 Co	72	1	0.00	ppb	58.29	1.00	
60 Ni	72	1	-0.01	ppb	158.48	1.00	
63 Cu	72	1	0.00	ppb	2887.40	1.00	
66 Zn	72	1	0.91	ppb	4.57	10.00	
75 As	72	1	0.01	ppb	91.99	1.00	
78 Se	72	1	0.30	ppb	92.05	1.00	
93 Nb	115	1	2.55	ppb	15.26	2.00	Fail
95 Mo	115	1	0.01	ppb	81.77	1.00	
105 Pd	115	1	0.01	ppb	25.49	1.00	
107 Ag	115	1	0.00	ppb	54.65	1.00	
111 Cd	115	1	0.00	ppb	85.11	1.00	
118 Sn	115	1	0.06	ppb	28.98	10.00	
121 Sb	115	1	0.08	ppb	3.04	1.00	
137 Ba	115	1	0.00	ppb	754.67	1.00	
182 W	165	1	0.02	ppb	13.61	5.00	
195 Pt	165	1	0.00	ppb	348.14	1.00	
205 Tl	165	1	0.02	ppb	4.86	1.00	
208 Pb	165	1	0.00	ppb	90.15	1.00	
232 Th	165	1	0.02	ppb	7.90	2.00	
238 U	165	1	0.00	ppb	8.10	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	486591	1.12	465255	104.6	30 - 120	
45 Sc	1	2155545	1.31	2085166	103.4	30 - 120	
72 Ge	1	1000797	1.76	990903	101.0	30 - 120	
115 In	1	2722579	0.76	2708507	100.5	30 - 120	
165 Ho	1	4288606	0.81	4305677	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\AG100609.B\003CALB.D\003CALB.D#

1 :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\AG100609.B\008RLST.D\008RLST.D#
Date Acquired: Oct 6 2009 05:47 pm
Operator: TEL
Sample Name: RL STD
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: RLSTD
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	1.04	ppb	8.83	1	103.6	50 - 150	
23 Na	6	1	91.59	ppb	4.69	100	91.6	50 - 150	
24 Mg	6	1	103.40	ppb	1.29	100	103.4	50 - 150	
27 Al	45	1	86.89	ppb	1.39	100	86.9	50 - 150	
39 K	45	1	102.50	ppb	0.71	100	102.5	50 - 150	
43 Ca	45	1	114.10	ppb	10.52	100	114.1	50 - 150	
51 V	72	1	0.99	ppb	4.42	1	99.3	50 - 150	
52 Cr	72	1	1.07	ppb	5.27	1	107.1	50 - 150	
55 Mn	72	1	1.02	ppb	0.97	1	102.4	50 - 150	
57 Fe	72	1	104.30	ppb	2.43	100	104.3	50 - 150	
59 Co	72	1	1.00	ppb	3.48	1	100.4	50 - 150	
60 Ni	72	1	1.09	ppb	5.42	1	109.1	50 - 150	
63 Cu	72	1	1.08	ppb	4.27	1	108.1	50 - 150	
66 Zn	72	1	10.77	ppb	0.36	10	107.7	50 - 150	
75 As	72	1	1.00	ppb	5.29	1	100.2	50 - 150	
78 Se	72	1	1.18	ppb	30.19	1	118.1	50 - 150	
93 Nb	115	1	3.47	ppb	7.75	2	173.5	50 - 150	Fail NR
95 Mo	115	1	1.02	ppb	2.50	1	102.0	50 - 150	
105 Pd	115	1	1.06	ppb	1.50	1	105.5	50 - 150	
107 Ag	115	1	1.04	ppb	4.92	1	104.4	50 - 150	
111 Cd	115	1	0.99	ppb	2.48	1	98.6	50 - 150	
118 Sn	115	1	10.53	ppb	1.77	10	105.3	50 - 150	
121 Sb	115	1	1.00	ppb	1.90	1	99.8	50 - 150	
137 Ba	115	1	1.02	ppb	3.68	1	101.7	50 - 150	
182 W	165	1	1.02	ppb	4.70	1	102.3	50 - 150	
195 Pt	165	1	1.01	ppb	5.23	1	101.3	50 - 150	
205 Tl	165	1	1.07	ppb	2.43	1	107.2	50 - 150	
208 Pb	165	1	1.06	ppb	1.38	1	105.5	50 - 150	
232 Th	165	1	0.95	ppb	2.78	1	95.4	50 - 150	
238 U	165	1	1.08	ppb	0.60	1	108.0	50 - 150	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	489453	1.45	465255	105.2	30 - 120	
45 Sc	1	2148783	1.28	2085166	103.1	30 - 120	
72 Ge	1	1003844	0.94	990903	101.3	30 - 120	
115 In	1	2716129	0.92	2708507	100.3	30 - 120	
165 Ho	1	4303092	0.77	4305677	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\AG100609.B\003CALB.D\003CALB.D#

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

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\009AFCE.D\009AFCE.D#
Date Acquired: Oct 6 2009 05:49 pm
Operator: TEL
Sample Name: AFCEE RL
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 pm
Sample Type: AFCEERL
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	0.20	ppb	8.60	0	96.0	80 - 120	
23 Na	6	1	10.53	ppb	13.38	18	57.5	80 - 120	
24 Mg	6	1	21.10	ppb	0.79	21	102.0	80 - 120	
27 Al	45	1	4.50	ppb	3.75	17	25.9	80 - 120	
39 K	45	1	21.67	ppb	6.80	21	105.7	80 - 120	
43 Ca	45	1	22.48	ppb	13.91	23	98.5	80 - 120	
51 V	72	1	0.15	ppb	5.83	0	77.7	80 - 120	
52 Cr	72	1	0.21	ppb	9.02	0	98.3	80 - 120	
55 Mn	72	1	0.20	ppb	7.77	0	96.0	80 - 120	
57 Fe	72	1	21.82	ppb	5.20	21	104.6	80 - 120	
59 Co	72	1	0.20	ppb	6.85	0	100.5	80 - 120	
60 Ni	72	1	0.22	ppb	3.23	0	101.6	80 - 120	
63 Cu	72	1	0.22	ppb	0.85	0	101.5	80 - 120	
66 Zn	72	1	2.06	ppb	3.82	2	95.6	80 - 120	
75 As	72	1	0.19	ppb	5.96	0	96.4	80 - 120	
78 Se	72	1	0.47	ppb	21.96	0	198.6	80 - 120	
93 Nb	115	1	1.46	ppb	14.88	1	210.7	80 - 120	
95 Mo	115	1	0.21	ppb	6.21	0	103.6	80 - 120	
105 Pd	115	1	0.22	ppb	6.03	0	103.6	80 - 120	
107 Ag	115	1	0.22	ppb	6.88	0	105.2	80 - 120	
111 Cd	115	1	0.21	ppb	4.99	0	104.0	80 - 120	
118 Sn	115	1	2.11	ppb	5.38	2	100.4	80 - 120	
121 Sb	115	1	0.22	ppb	1.52	0	111.1	80 - 120	
137 Ba	115	1	0.20	ppb	5.37	0	100.1	80 - 120	
182 W	165	1	0.22	ppb	7.12	0	106.3	80 - 120	
195 Pt	165	1	0.22	ppb	13.48	0	107.4	80 - 120	
205 Tl	165	1	0.21	ppb	2.35	0	99.3	80 - 120	
208 Pb	165	1	0.21	ppb	3.04	0	100.6	80 - 120	
232 Th	165	1	0.21	ppb	8.22	0	112.5	80 - 120	
238 U	165	1	0.21	ppb	1.22	0	98.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	495512	1.48	465255	106.5	30 - 120	
45 Sc	1	2158739	1.48	2085166	103.5	30 - 120	
72 Ge	1	1009895	0.62	990903	101.9	30 - 120	
115 In	1	2718939	1.75	2708507	100.4	30 - 120	
165 Ho	1	4305779	0.84	4305677	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\AG100609.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\AG100609.B\010SMPL.D\010SMPL.D#
Date Acquired: Oct 6 2009 05:52 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ALTSe
Misc Info: 2 ppb
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	86.61	3600	
23 Na	6	1	-9.36	-9.36	ppb	12.98	100000	
24 Mg	6	1	0.05	0.05	ppb	66.57	100000	
27 Al	45	1	-16.34	-16.34	ppb	0.49	100000	
39 K	45	1	0.97	0.97	ppb	182.75	100000	
43 Ca	45	1	2.05	2.05	ppb	64.23	100000	
51 V	72	1	-0.03	-0.03	ppb	72.79	3600	
52 Cr	72	1	-0.02	-0.02	ppb	97.94	3600	
55 Mn	72	1	0.01	0.01	ppb	58.29	18000	
57 Fe	72	1	0.18	0.18	ppb	249.30	100000	
59 Co	72	1	0.00	0.00	ppb	159.54	3600	
60 Ni	72	1	0.02	0.02	ppb	79.04	3600	
63 Cu	72	1	0.08	0.08	ppb	12.57	3600	
66 Zn	72	1	0.12	0.12	ppb	29.54	3600	
75 As	72	1	0.00	0.00	ppb	200.56	3600	
78 Se	72	1	2.18	2.18	ppb	33.13	3600	
93 Nb	115	1	0.76	0.76	ppb	17.30	2000	
95 Mo	115	1	0.01	0.01	ppb	164.74	3600	
105 Pd	115	1	0.01	0.01	ppb	17.69	1000	
107 Ag	115	1	0.00	0.00	ppb	78.10	3600	
111 Cd	115	1	0.00	0.00	ppb	236.74	3600	
118 Sn	115	1	0.04	0.04	ppb	13.37	3600	
121 Sb	115	1	0.02	0.02	ppb	28.01	3600	
137 Ba	115	1	0.01	0.01	ppb	77.87	3600	
182 W	165	1	0.00	0.00	ppb	221.49	1000	
195 Pt	165	1	0.00	0.00	ppb	44.02	1000	
205 Tl	165	1	0.00	0.00	ppb	80.80	3600	
208 Pb	165	1	0.00	0.00	ppb	65.69	3600	
232 Th	165	1	0.01	0.01	ppb	36.39	1000	
238 U	165	1	0.00	0.00	ppb	88.32	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	500100	2.02	465255	107.5	30 - 120	
45 Sc	1	2173537	2.15	2085166	104.2	30 - 120	
72 Ge	1	1017905	0.74	990903	102.7	30 - 120	
115 In	1	2719418	2.19	2708507	100.4	30 - 120	
165 Ho	1	4331357	0.45	4305677	100.6	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\AG100609.B\003CALB.D\003CALB.D#

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

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\011ICSA.D\011ICSA.D#
Date Acquired: Oct 6 2009 05:55 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSA
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	
23 Na	6	1	105700.00 ppb	3.56	100000.00	
24 Mg	6	1	103400.00 ppb	2.93	100000.00	
27 Al	45	1	95440.00 ppb	1.19	100000.00	
39 K	45	1	95820.00 ppb	1.07	100000.00	
43 Ca	45	1	101500.00 ppb	1.32	100000.00	
51 V	72	1	-0.36 ppb	20.93	1.00	
52 Cr	72	1	0.62 ppb	4.90	1.00	
55 Mn	72	1	3.84 ppb	2.44	1.00	
57 Fe	72	1	96260.00 ppb	1.59	100000.00	
59 Co	72	1	1.47 ppb	3.33	1.00	
60 Ni	72	1	1.51 ppb	4.86	1.00	
63 Cu	72	1	1.55 ppb	3.36	1.00	
66 Zn	72	1	3.01 ppb	2.48	10.00	
75 As	72	1	0.37 ppb	9.14	1.00	
78 Se	72	1	0.39 ppb	47.89	1.00	
93 Nb	115	1	1.34 ppb	21.56	2.00	
95 Mo	115	1	2060.00 ppb	3.22	2000.00	
105 Pd	115	1	0.07 ppb	20.22	1.00	
107 Ag	115	1	0.04 ppb	21.36	1.00	
111 Cd	115	1	2.19 ppb	2.62	1.00	
118 Sn	115	1	0.14 ppb	25.12	10.00	
121 Sb	115	1	0.27 ppb	6.70	1.00	
137 Ba	115	1	0.06 ppb	6.07	1.00	
182 W	165	1	0.12 ppb	7.59	5.00	
195 Pt	165	1	0.00 ppb	416.29	1.00	
205 Tl	165	1	0.03 ppb	30.14	1.00	
208 Pb	165	1	0.12 ppb	9.57	1.00	
232 Th	165	1	0.02 ppb	23.37	2.00	
238 U	165	1	0.01 ppb	20.84	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	315952	3.80	465255	67.9	30 - 120	
45 Sc	1	1522086	1.97	2085166	73.0	30 - 120	
72 Ge	1	746397	1.04	990903	75.3	30 - 120	
115 In	1	2032227	1.69	2708507	75.0	30 - 120	
165 Ho	1	3452969	0.40	4305677	80.2	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\AG100609.B\003CALB.D\003CALB.D#

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

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\012ICSB.D\012ICSB.D#
Date Acquired: Oct 6 2009 05:58 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSAB
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	105.80	2.61	100	105.8	80 - 120	
23 Na	6	1	118800.00	0.19	110000	108.0	80 - 120	
24 Mg	6	1	117100.00	0.54	110000	106.5	80 - 120	
27 Al	45	1	103600.00	2.00	110000	94.2	80 - 120	
39 K	45	1	103900.00	0.45	110000	94.5	80 - 120	
43 Ca	45	1	112500.00	1.47	110000	102.3	80 - 120	
51 V	72	1	96.34	3.61	100	96.3	80 - 120	
52 Cr	72	1	96.15	1.72	100	96.2	80 - 120	
55 Mn	72	1	100.10	0.67	100	100.1	80 - 120	
57 Fe	72	1	104300.00	0.67	110000	94.8	80 - 120	
59 Co	72	1	94.67	0.85	100	94.7	80 - 120	
60 Ni	72	1	92.71	1.72	100	92.7	80 - 120	
63 Cu	72	1	92.61	1.11	100	92.6	80 - 120	
66 Zn	72	1	98.47	0.79	100	98.5	80 - 120	
75 As	72	1	101.50	0.49	100	101.5	80 - 120	
78 Se	72	1	107.70	1.25	100	107.7	80 - 120	
93 Nb	115	1	198.30	1.70	200	99.2	80 - 120	
95 Mo	115	1	2109.00	0.48	2100	100.4	80 - 120	
105 Pd	115	1	95.44	1.01	100	95.4	80 - 120	
107 Ag	115	1	93.10	4.06	100	93.1	80 - 120	
111 Cd	115	1	98.08	0.81	100	98.1	80 - 120	
118 Sn	115	1	101.30	1.54	100	101.3	80 - 120	
121 Sb	115	1	103.30	0.81	100	103.3	80 - 120	
137 Ba	115	1	102.60	0.75	100	102.6	80 - 120	
182 W	165	1	105.20	0.88	100	105.2	80 - 120	
195 Pt	165	1	99.26	0.31	100	99.3	80 - 120	
205 Tl	165	1	101.00	0.44	100	101.0	80 - 120	
208 Pb	165	1	99.69	1.18	100	99.7	80 - 120	
232 Th	165	1	105.50	0.78	100	105.5	80 - 120	
238 U	165	1	105.90	1.14	100	105.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	276946	3.41	465255	59.5	30 - 120	
45 Sc	1	1406615	0.70	2085166	67.5	30 - 120	
72 Ge	1	701358	1.09	990903	70.8	30 - 120	
115 In	1	1968650	1.30	2708507	72.7	30 - 120	
165 Ho	1	3399356	0.51	4305677	79.0	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\AG100609.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\AG100609.B\013SMPL.D\013SMPL.D#
Date Acquired: Oct 6 2009 06:01 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	173.21	3600	
23 Na	6	1	15.24	15.24	ppb	23.76	100000	
24 Mg	6	1	12.62	12.62	ppb	16.22	100000	
27 Al	45	1	-4.98	-4.98	ppb	38.87	100000	
39 K	45	1	9.40	9.40	ppb	19.45	100000	
43 Ca	45	1	12.98	12.98	ppb	20.24	100000	
51 V	72	1	-0.02	-0.02	ppb	32.94	3600	
52 Cr	72	1	0.01	0.01	ppb	126.31	3600	
55 Mn	72	1	0.01	0.01	ppb	57.14	18000	
57 Fe	72	1	14.43	14.43	ppb	14.27	100000	
59 Co	72	1	0.01	0.01	ppb	64.51	3600	
60 Ni	72	1	0.01	0.01	ppb	40.36	3600	
63 Cu	72	1	0.01	0.01	ppb	59.31	3600	
66 Zn	72	1	0.06	0.06	ppb	16.40	3600	
75 As	72	1	0.01	0.01	ppb	76.58	3600	
78 Se	72	1	0.05	0.05	ppb	671.35	3600	
93 Nb	115	1	4.81	4.81	ppb	14.77	2000	
95 Mo	115	1	1.18	1.18	ppb	3.91	3600	
105 Pd	115	1	0.01	0.01	ppb	44.91	1000	
107 Ag	115	1	0.01	0.01	ppb	43.38	3600	
111 Cd	115	1	0.01	0.01	ppb	43.63	3600	
118 Sn	115	1	0.08	0.08	ppb	23.47	3600	
121 Sb	115	1	0.19	0.19	ppb	6.85	3600	
137 Ba	115	1	0.00	0.00	ppb	200.80	3600	
182 W	165	1	0.07	0.07	ppb	17.06	1000	
195 Pt	165	1	0.01	0.01	ppb	45.81	1000	
205 Tl	165	1	0.02	0.02	ppb	23.29	3600	
208 Pb	165	1	0.01	0.01	ppb	15.22	3600	
232 Th	165	1	0.25	0.25	ppb	19.03	1000	
238 U	165	1	0.02	0.02	ppb	7.95	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	458050	1.12	465255	98.5	30 - 120	
45 Sc	1	2017697	0.86	2085166	96.8	30 - 120	
72 Ge	1	946806	0.74	990903	95.5	30 - 120	
115 In	1	2657789	0.90	2708507	98.1	30 - 120	
165 Ho	1	4277436	0.36	4305677	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\AG100609.B\003CALB.D\003CALB.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\AG100609.B\014WASH.D\014WASH.D#
Date Acquired: Oct 6 2009 06:04 pm
Operator: TEL
Sample Name: LR1
Misc Info:
Vial Number: 2110
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	1001.000 ppb	2.83	1.30	
23 Na	6	1	3.478 ppb	44.91	65.00	
24 Mg	6	1	5.291 ppb	6.60	65.00	
27 Al	45	1	-10.050 ppb	2.51	39.00	
39 K	45	1	9.833 ppb	3.47	130.00	
43 Ca	45	1	16.680 ppb	13.24	65.00	
51 V	72	1	934.500 ppb	0.38	6.50	
52 Cr	72	1	984.000 ppb	1.27	2.60	
55 Mn	72	1	970.900 ppb	1.06	1.30	
57 Fe	72	1	6.165 ppb	5.96	65.00	
59 Co	72	1	984.900 ppb	1.06	1.30	
60 Ni	72	1	1010.000 ppb	0.91	2.60	
63 Cu	72	1	1031.000 ppb	1.37	2.60	
66 Zn	72	1	998.500 ppb	0.87	13.00	
75 As	72	1	1009.000 ppb	0.60	6.50	
78 Se	72	1	1036.000 ppb	1.31	6.50	
93 Nb	115	1	6.008 ppb	12.57	52.00	
95 Mo	115	1	999.400 ppb	1.18	2.60	
105 Pd	115	1	0.012 ppb	23.20	1.30	
107 Ag	115	1	1008.000 ppb	0.36	6.50	
111 Cd	115	1	987.700 ppb	1.95	1.30	
118 Sn	115	1	969.300 ppb	0.90	13.00	
121 Sb	115	1	962.700 ppb	0.14	2.60	
137 Ba	115	1	971.500 ppb	0.30	1.30	
182 W	165	1	0.089 ppb	6.06	6.50	
195 Pt	165	1	0.006 ppb	11.84	1.30	
205 Tl	165	1	1000.000 ppb	0.72	1.30	
208 Pb	165	1	988.600 ppb	1.07	1.30	
232 Th	165	1	996.000 ppb	0.93	2.60	
238 U	165	1	994.800 ppb	0.57	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	455550	0.61	465255	97.9	30 - 120	
45 Sc	1	2053036	0.20	2085166	98.5	30 - 120	
72 Ge	1	959088	0.37	990903	96.8	30 - 120	
115 In	1	2605028	0.71	2708507	96.2	30 - 120	
165 Ho	1	4261098	0.81	4305677	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.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\AG100609.B\015SMPL.D\015SMPL.D#
Date Acquired: Oct 6 2009 06:07 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	0.06	0.06	ppb	115.92	3600	
23 Na	6	1	-9.22	-9.22	ppb	19.41	100000	
24 Mg	6	1	2.83	2.83	ppb	4.98	100000	
27 Al	45	1	-14.50	-14.50	ppb	0.43	100000	
39 K	45	1	3.45	3.45	ppb	26.99	100000	
43 Ca	45	1	3.33	3.33	ppb	37.71	100000	
51 V	72	1	0.06	0.06	ppb	53.07	3600	
52 Cr	72	1	0.05	0.05	ppb	50.55	3600	
55 Mn	72	1	0.08	0.08	ppb	17.82	18000	
57 Fe	72	1	3.62	3.62	ppb	5.22	100000	
59 Co	72	1	0.08	0.08	ppb	15.96	3600	
60 Ni	72	1	0.07	0.07	ppb	30.71	3600	
63 Cu	72	1	0.08	0.08	ppb	12.42	3600	
66 Zn	72	1	0.17	0.17	ppb	3.50	3600	
75 As	72	1	0.12	0.12	ppb	30.72	3600	
78 Se	72	1	0.33	0.33	ppb	161.68	3600	
93 Nb	115	1	1.17	1.17	ppb	19.46	2000	
95 Mo	115	1	0.74	0.74	ppb	2.98	3600	
105 Pd	115	1	0.00	0.00	ppb	43.13	1000	
107 Ag	115	1	0.11	0.11	ppb	18.30	3600	
111 Cd	115	1	0.08	0.08	ppb	18.98	3600	
118 Sn	115	1	1.19	1.19	ppb	23.15	3600	
121 Sb	115	1	1.57	1.57	ppb	8.39	3600	
137 Ba	115	1	0.07	0.07	ppb	26.16	3600	
182 W	165	1	0.01	0.01	ppb	111.08	1000	
195 Pt	165	1	0.00	0.00	ppb	146.73	1000	
205 Tl	165	1	0.20	0.20	ppb	20.21	3600	
208 Pb	165	1	0.08	0.08	ppb	16.64	3600	
232 Th	165	1	2.18	2.18	ppb	21.43	1000	
238 U	165	1	0.16	0.16	ppb	2.83	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	491137	2.74	465255	105.6	30 - 120	
45 Sc	1	2092864	1.10	2085166	100.4	30 - 120	
72 Ge	1	988635	0.33	990903	99.8	30 - 120	
115 In	1	2712237	0.93	2708507	100.1	30 - 120	
165 Ho	1	4278438	0.75	4305677	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\AG100609.B\003CALB.D\003CALB.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\AG100609.B\016WASH.D\016WASH.D#
Date Acquired: Oct 6 2009 06:10 pm
Operator: TEL
Sample Name: LR2
Misc Info:
Vial Number: 2111
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.069 ppb	24.77	1.30	
23 Na	6	1	102100.000 ppb	0.31	65.00	
24 Mg	6	1	101100.000 ppb	0.30	65.00	
27 Al	45	1	103100.000 ppb	0.60	39.00	
39 K	45	1	99710.000 ppb	2.02	130.00	
43 Ca	45	1	103900.000 ppb	0.62	65.00	
51 V	72	1	-0.280 ppb	6.39	6.50	
52 Cr	72	1	0.465 ppb	4.26	2.60	
55 Mn	72	1	4.216 ppb	0.33	1.30	
57 Fe	72	1	98420.000 ppb	0.51	65.00	
59 Co	72	1	1.727 ppb	2.63	1.30	
60 Ni	72	1	1.682 ppb	5.09	2.60	
63 Cu	72	1	1.600 ppb	0.76	2.60	
66 Zn	72	1	3.522 ppb	3.73	13.00	
75 As	72	1	0.212 ppb	17.46	6.50	
78 Se	72	1	0.457 ppb	73.42	6.50	
93 Nb	115	1	2393.000 ppb	0.71	52.00	
95 Mo	115	1	0.568 ppb	1.19	2.60	
105 Pd	115	1	934.000 ppb	0.46	1.30	
107 Ag	115	1	0.113 ppb	10.06	6.50	
111 Cd	115	1	0.241 ppb	15.98	1.30	
118 Sn	115	1	1.429 ppb	65.37	13.00	
121 Sb	115	1	1.284 ppb	5.05	2.60	
137 Ba	115	1	0.127 ppb	12.76	1.30	
182 W	165	1	1008.000 ppb	1.00	6.50	
195 Pt	165	1	986.300 ppb	1.77	1.30	
205 Tl	165	1	0.091 ppb	18.35	1.30	
208 Pb	165	1	0.194 ppb	3.55	1.30	
232 Th	165	1	0.252 ppb	45.67	2.60	
238 U	165	1	0.077 ppb	6.59	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	410255	1.49	465255	88.2	30 - 120	
45 Sc	1	1815266	1.22	2085166	87.1	30 - 120	
72 Ge	1	834672	0.70	990903	84.2	30 - 120	
115 In	1	2145200	0.63	2708507	79.2	30 - 120	
165 Ho	1	3396230	1.61	4305677	78.9	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\AG100609.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\AG100609.B\017SMPL.D\017SMPL.D#
Date Acquired: Oct 6 2009 06:13 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 05:36 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	173.19	3600	
23 Na	6	1	-1.11	-1.11	ppb	253.03	100000	
24 Mg	6	1	10.46	10.46	ppb	17.13	100000	
27 Al	45	1	-6.15	-6.15	ppb	23.27	100000	
39 K	45	1	9.06	9.06	ppb	14.12	100000	
43 Ca	45	1	12.79	12.79	ppb	13.26	100000	
51 V	72	1	-0.04	-0.04	ppb	24.02	3600	
52 Cr	72	1	0.01	0.01	ppb	150.92	3600	
55 Mn	72	1	0.01	0.01	ppb	45.60	18000	
57 Fe	72	1	11.92	11.92	ppb	18.46	100000	
59 Co	72	1	0.01	0.01	ppb	41.02	3600	
60 Ni	72	1	0.01	0.01	ppb	263.38	3600	
63 Cu	72	1	0.02	0.02	ppb	34.66	3600	
66 Zn	72	1	0.12	0.12	ppb	6.65	3600	
75 As	72	1	0.01	0.01	ppb	116.48	3600	
78 Se	72	1	0.02	0.02	ppb	1618.90	3600	
93 Nb	115	1	2.76	2.76	ppb	6.75	2000	
95 Mo	115	1	0.11	0.11	ppb	10.58	3600	
105 Pd	115	1	0.37	0.37	ppb	11.93	1000	
107 Ag	115	1	0.02	0.02	ppb	121.56	3600	
111 Cd	115	1	0.01	0.01	ppb	28.05	3600	
118 Sn	115	1	0.18	0.18	ppb	25.46	3600	
121 Sb	115	1	0.15	0.15	ppb	17.27	3600	
137 Ba	115	1	0.01	0.01	ppb	76.70	3600	
182 W	165	1	0.32	0.32	ppb	8.92	1000	
195 Pt	165	1	0.10	0.10	ppb	11.83	1000	
205 Tl	165	1	0.01	0.01	ppb	27.23	3600	
208 Pb	165	1	0.01	0.01	ppb	15.42	3600	
232 Th	165	1	0.01	0.01	ppb	7.92	1000	
238 U	165	1	0.02	0.02	ppb	14.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	529831	3.24	465255	113.9	30 - 120	
45 Sc	1	2163212	0.79	2085166	103.7	30 - 120	
72 Ge	1	1001773	0.78	990903	101.1	30 - 120	
115 In	1	2700414	0.76	2708507	99.7	30 - 120	
165 Ho	1	4191386	1.28	4305677	97.3	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\AG100609.B\003CALB.D\003CALB.D#

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

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\018_CCV.D\018_CCV.D#
Date Acquired: Oct 6 2009 06:16 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	46.15	ppb	2.96	50	92.3	90 - 110	
23 Na	6	1	4680.00	ppb	1.43	5000	93.6	90 - 110	
24 Mg	6	1	4666.00	ppb	0.63	5000	93.3	90 - 110	
27 Al	45	1	4991.00	ppb	0.42	5000	99.8	90 - 110	
39 K	45	1	4909.00	ppb	1.73	5000	98.2	90 - 110	
43 Ca	45	1	4911.00	ppb	3.16	5000	98.2	90 - 110	
51 V	72	1	49.97	ppb	3.03	50	99.9	90 - 110	
52 Cr	72	1	50.55	ppb	1.63	50	101.1	90 - 110	
55 Mn	72	1	50.35	ppb	1.88	50	100.7	90 - 110	
57 Fe	72	1	5111.00	ppb	1.09	5000	102.2	90 - 110	
59 Co	72	1	49.87	ppb	2.07	50	99.7	90 - 110	
60 Ni	72	1	50.77	ppb	2.22	50	101.5	90 - 110	
63 Cu	72	1	50.86	ppb	1.76	50	101.7	90 - 110	
66 Zn	72	1	49.40	ppb	1.58	50	98.8	90 - 110	
75 As	72	1	49.73	ppb	1.83	50	99.5	90 - 110	
78 Se	72	1	49.35	ppb	4.10	50	98.7	90 - 110	
93 Nb	115	1	96.51	ppb	0.24	100	96.5	90 - 110	
95 Mo	115	1	51.08	ppb	0.70	50	102.2	90 - 110	
105 Pd	115	1	50.77	ppb	1.63	50	101.5	90 - 110	
107 Ag	115	1	51.08	ppb	0.59	50	102.2	90 - 110	
111 Cd	115	1	49.73	ppb	1.16	50	99.5	90 - 110	
118 Sn	115	1	49.88	ppb	0.36	50	99.8	90 - 110	
121 Sb	115	1	49.14	ppb	0.77	50	98.3	90 - 110	
137 Ba	115	1	49.81	ppb	1.18	50	99.6	90 - 110	
182 W	165	1	49.25	ppb	1.98	50	98.5	90 - 110	
195 Pt	165	1	50.47	ppb	0.89	50	100.9	90 - 110	
205 Tl	165	1	51.09	ppb	0.37	50	102.2	90 - 110	
208 Pb	165	1	50.80	ppb	0.91	50	101.6	90 - 110	
232 Th	165	1	50.66	ppb	1.14	50	101.3	90 - 110	
238 U	165	1	50.23	ppb	1.60	50	100.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	517990	2.02	465255	111.3	30 - 120	
45 Sc	1	2147771	1.23	2085166	103.0	30 - 120	
72 Ge	1	1004608	1.45	990903	101.4	30 - 120	
115 In	1	2639806	0.75	2708507	97.5	30 - 120	
165 Ho	1	4181883	0.95	4305677	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\AG100609.B\003CALB.D\003CALB.D#

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

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\019_CCB.D\019_CCB.D#
Date Acquired: Oct 6 2009 06:18 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.013	ppb	99.85	1.00	
23 Na	6	1	-15.910	ppb	5.07	20.00	
24 Mg	6	1	1.266	ppb	8.03	20.00	
27 Al	45	1	-15.650	ppb	0.70	20.00	
39 K	45	1	-3.673	ppb	43.37	20.00	
43 Ca	45	1	2.208	ppb	51.00	20.00	
51 V	72	1	-0.030	ppb	79.61	1.00	
52 Cr	72	1	0.025	ppb	33.90	1.00	
55 Mn	72	1	0.001	ppb	137.83	1.00	
57 Fe	72	1	2.075	ppb	5.50	20.00	
59 Co	72	1	0.012	ppb	28.65	1.00	
60 Ni	72	1	0.021	ppb	110.16	1.00	
63 Cu	72	1	0.004	ppb	171.63	1.00	
66 Zn	72	1	0.044	ppb	41.59	10.00	
75 As	72	1	0.007	ppb	257.06	1.00	
78 Se	72	1	-0.014	ppb	1522.20	1.00	
93 Nb	115	1	3.583	ppb	11.87	2.00	Fail
95 Mo	115	1	0.074	ppb	5.63	1.00	
105 Pd	115	1	0.088	ppb	0.93	1.00	
107 Ag	115	1	0.015	ppb	34.08	1.00	
111 Cd	115	1	0.010	ppb	16.39	1.00	
118 Sn	115	1	0.124	ppb	21.08	10.00	
121 Sb	115	1	0.207	ppb	7.47	1.00	
137 Ba	115	1	0.012	ppb	28.38	1.00	
182 W	165	1	0.075	ppb	31.33	5.00	
195 Pt	165	1	0.006	ppb	129.70	1.00	
205 Tl	165	1	0.025	ppb	14.13	1.00	
208 Pb	165	1	0.010	ppb	5.41	1.00	
232 Th	165	1	0.167	ppb	13.58	2.00	
238 U	165	1	0.018	ppb	5.43	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	540492	1.58	465255	116.2	30 - 120	
45 Sc	1	2235578	2.44	2085166	107.2	30 - 120	
72 Ge	1	1025301	0.48	990903	103.5	30 - 120	
115 In	1	2727064	1.58	2708507	100.7	30 - 120	
165 Ho	1	4248165	0.98	4305677	98.7	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\AG100609.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\AG100609.B\020WASH.D\020WASH.D#
Date Acquired: Oct 6 2009 06:21 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 05:36 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	0.996 ppb	10.03	1.30	
23 Na	6	1	34.770 ppb	1.79	65.00	
24 Mg	6	1	52.650 ppb	0.83	65.00	
27 Al	45	1	16.840 ppb	2.08	39.00	
39 K	45	1	103.000 ppb	2.52	130.00	
43 Ca	45	1	53.010 ppb	12.81	65.00	
51 V	72	1	5.109 ppb	2.20	6.50	
52 Cr	72	1	2.112 ppb	4.98	2.60	
55 Mn	72	1	1.096 ppb	3.14	1.30	
57 Fe	72	1	57.950 ppb	3.81	65.00	
59 Co	72	1	1.071 ppb	3.42	1.30	
60 Ni	72	1	2.215 ppb	9.64	2.60	
63 Cu	72	1	2.227 ppb	3.90	2.60	
66 Zn	72	1	10.480 ppb	1.24	13.00	
75 As	72	1	5.169 ppb	0.08	6.50	
78 Se	72	1	4.977 ppb	8.70	6.50	
93 Nb	115	1	45.250 ppb	1.82	52.00	
95 Mo	115	1	2.019 ppb	2.54	2.60	
105 Pd	115	1	0.941 ppb	6.09	1.30	
107 Ag	115	1	5.490 ppb	1.19	6.50	
111 Cd	115	1	1.051 ppb	6.20	1.30	
118 Sn	115	1	10.300 ppb	1.36	13.00	
121 Sb	115	1	2.079 ppb	2.50	2.60	
137 Ba	115	1	1.052 ppb	4.25	1.30	
182 W	165	1	5.024 ppb	1.72	6.50	
195 Pt	165	1	0.987 ppb	3.47	1.30	
205 Tl	165	1	1.144 ppb	0.56	1.30	
208 Pb	165	1	1.131 ppb	1.99	1.30	
232 Th	165	1	2.292 ppb	1.84	2.60	
238 U	165	1	1.134 ppb	2.13	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	544087	0.75	465255	116.9	30 - 120	
45 Sc	1	2234861	0.91	2085166	107.2	30 - 120	
72 Ge	1	1036661	1.33	990903	104.6	30 - 120	
115 In	1	2758498	0.79	2708507	101.8	30 - 120	
165 Ho	1	4259407	1.16	4305677	98.9	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\AG100609.B\003CALB.D\003CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: LRD

Date: 10/6/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\025CALB.D\025CALB.D#
Date Acquired: Oct 6 2009 06:36 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 06:34 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	319303	0.47
24	Mg	6	1	1237	6.52
27	Al	45	1	63936	1.58
39	K	45	1	362834	1.79
43	Ca	45	1	50	20.67
51	V	72	1	40	56.49
52	Cr	72	1	4304	5.05
55	Mn	72	1	837	0.71
57	Fe	72	1	740	17.72
59	Co	72	1	47	32.71
60	Ni	72	1	173	21.85
63	Cu	72	1	457	13.20
66	Zn	72	1	851	2.80
75	As	72	1	51	9.78
78	Se	72	1	753	5.05
93	Nb	115	1	12766	21.67
95	Mo	115	1	83	38.62
105	Pd	115	1	77	65.68
107	Ag	115	1	20	49.88
111	Cd	115	1	6	91.60
118	Sn	115	1	397	24.71
121	Sb	115	1	221	20.37
137	Ba	115	1	31	37.76
182	W	165	1	887	13.25
195	Pt	165	1	217	29.24
205	Tl	165	1	113	15.17
208	Pb	165	1	346	1.98
232	Th	165	1	190	32.74
238	U	165	1	43	20.42

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	552567	0.70
45	Sc	1	2258491	1.39
72	Ge	1	1048475	0.03
115	In	1	2762482	0.15
165	Ho	1	4237360	0.17

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\AG100609.B\026ICAL.D\026ICAL.D#
Date Acquired: Oct 6 2009 06:39 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 06:37 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	69198	0.47
23	Na	6	1	50229080	2.14
24	Mg	6	1	31301490	0.68
27	Al	45	1	28384090	1.00
39	K	45	1	48981820	1.54
43	Ca	45	1	124598	0.57
51	V	72	1	1308332	3.51
52	Cr	72	1	1314178	2.16
55	Mn	72	1	1473835	1.90
57	Fe	72	1	3322746	1.96
59	Co	72	1	1587514	2.52
60	Ni	72	1	352151	2.87
63	Cu	72	1	847351	2.61
66	Zn	72	1	190236	2.00
75	As	72	1	159245	2.90
78	Se	72	1	29469	4.04
93	Nb	115	1	4215026	2.13
95	Mo	115	1	425929	1.01
105	Pd	115	1	531540	1.94
107	Ag	115	1	1167280	0.52
111	Cd	115	1	236651	0.68
118	Sn	115	1	660458	1.11
121	Sb	115	1	769900	0.44
137	Ba	115	1	321859	1.20
182	W	165	1	1032564	0.70
195	Pt	165	1	678440	1.16
205	Tl	165	1	2242621	1.55
208	Pb	165	1	3043152	1.43
232	Th	165	1	3259036	0.80
238	U	165	1	3330839	0.74

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	530901	0.74	552567	96.1	30 - 120	
45	Sc	1	2168999	1.10	2258491	96.0	30 - 120	
72	Ge	1	997574	2.26	1048475	95.1	30 - 120	
115	In	1	2595520	1.13	2762482	94.0	30 - 120	
165	Ho	1	4108111	0.72	4237360	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\AG100609.B\025CALB.D\025CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\027_CCV.D\027_CCV.D#
Date Acquired: Oct 6 2009 06:42 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 06:40 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.43	ppb	3.90	50	98.9	90 - 110	
23 Na	6	1	4936.00	ppb	2.60	5000	98.7	90 - 110	
24 Mg	6	1	4999.00	ppb	3.26	5000	100.0	90 - 110	
27 Al	45	1	5076.00	ppb	1.10	5000	101.5	90 - 110	
39 K	45	1	5069.00	ppb	0.60	5000	101.4	90 - 110	
43 Ca	45	1	5033.00	ppb	1.26	5000	100.7	90 - 110	
51 V	72	1	49.21	ppb	0.84	50	98.4	90 - 110	
52 Cr	72	1	49.34	ppb	0.84	50	98.7	90 - 110	
55 Mn	72	1	50.69	ppb	1.21	50	101.4	90 - 110	
57 Fe	72	1	5093.00	ppb	0.77	5000	101.9	90 - 110	
59 Co	72	1	50.51	ppb	0.85	50	101.0	90 - 110	
60 Ni	72	1	50.36	ppb	1.10	50	100.7	90 - 110	
63 Cu	72	1	50.30	ppb	0.60	50	100.6	90 - 110	
66 Zn	72	1	50.48	ppb	0.56	50	101.0	90 - 110	
75 As	72	1	50.04	ppb	0.73	50	100.1	90 - 110	
78 Se	72	1	47.78	ppb	1.93	50	95.6	90 - 110	
93 Nb	115	1	101.40	ppb	1.29	100	101.4	90 - 110	
95 Mo	115	1	49.20	ppb	2.03	50	98.4	90 - 110	
105 Pd	115	1	49.88	ppb	2.29	50	99.8	90 - 110	
107 Ag	115	1	50.98	ppb	2.24	50	102.0	90 - 110	
111 Cd	115	1	49.77	ppb	2.60	50	99.5	90 - 110	
118 Sn	115	1	49.03	ppb	1.14	50	98.1	90 - 110	
121 Sb	115	1	49.25	ppb	1.35	50	98.5	90 - 110	
137 Ba	115	1	49.38	ppb	1.82	50	98.8	90 - 110	
182 W	165	1	49.08	ppb	0.24	50	98.2	90 - 110	
195 Pt	165	1	49.89	ppb	0.88	50	99.8	90 - 110	
205 Tl	165	1	51.49	ppb	1.15	50	103.0	90 - 110	
208 Pb	165	1	50.94	ppb	1.61	50	101.9	90 - 110	
232 Th	165	1	50.80	ppb	1.03	50	101.6	90 - 110	
238 U	165	1	50.45	ppb	0.70	50	100.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	545742	2.80	552567	98.8	30 - 120	
45 Sc	1	2192943	0.38	2258491	97.1	30 - 120	
72 Ge	1	1010065	0.53	1048475	96.3	30 - 120	
115 In	1	2652466	0.80	2762482	96.0	30 - 120	
165 Ho	1	4161691	0.19	4237360	98.2	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\AG100609.B\025CALB.D\025CALB.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\AG100609.B\028_CCB.D\028_CCB.D#
Date Acquired: Oct 6 2009 06:45 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 06:40 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	0.014	ppb	99.05	1.00	
23 Na	6	1	-3.851	ppb	34.20	20.00	
24 Mg	6	1	0.569	ppb	24.76	20.00	
27 Al	45	1	-17.620	ppb	0.80	20.00	
39 K	45	1	1.111	ppb	80.32	20.00	
43 Ca	45	1	-1.788	ppb	25.47	20.00	
51 V	72	1	0.013	ppb	164.86	1.00	
52 Cr	72	1	0.006	ppb	265.75	1.00	
55 Mn	72	1	0.005	ppb	253.11	1.00	
57 Fe	72	1	0.874	ppb	35.00	20.00	
59 Co	72	1	0.011	ppb	24.58	1.00	
60 Ni	72	1	-0.002	ppb	735.15	1.00	
63 Cu	72	1	0.020	ppb	21.38	1.00	
66 Zn	72	1	0.033	ppb	71.60	10.00	
75 As	72	1	0.022	ppb	23.20	1.00	
78 Se	72	1	-0.219	ppb	110.06	1.00	
93 Nb	115	1	3.597	ppb	15.56	2.00	Fail
95 Mo	115	1	0.037	ppb	0.28	1.00	
105 Pd	115	1	0.034	ppb	15.64	1.00	
107 Ag	115	1	0.015	ppb	34.93	1.00	
111 Cd	115	1	0.015	ppb	37.74	1.00	
118 Sn	115	1	0.059	ppb	30.39	10.00	
121 Sb	115	1	0.198	ppb	9.76	1.00	
137 Ba	115	1	0.019	ppb	49.96	1.00	
182 W	165	1	0.036	ppb	29.07	5.00	
195 Pt	165	1	-0.003	ppb	343.94	1.00	
205 Tl	165	1	0.028	ppb	14.78	1.00	
208 Pb	165	1	0.013	ppb	10.36	1.00	
232 Th	165	1	0.174	ppb	15.19	2.00	
238 U	165	1	0.018	ppb	6.46	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	555754	1.72	552567	100.6	30 - 120	
45 Sc	1	2242975	0.40	2258491	99.3	30 - 120	
72 Ge	1	1032869	0.89	1048475	98.5	30 - 120	
115 In	1	2731502	0.19	2762482	98.9	30 - 120	
165 Ho	1	4212796	1.12	4237360	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\AG100609.B\025CALB.D\025CALB.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\AG100609.B\029WASH.D\029WASH.D#
Date Acquired: Oct 6 2009 06:48 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 06:40 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	0.922 ppb	2.96	1.30	
23 Na	6	1	50.700 ppb	2.90	65.00	
24 Mg	6	1	56.730 ppb	0.83	65.00	
27 Al	45	1	14.300 ppb	5.04	39.00	
39 K	45	1	110.200 ppb	1.97	130.00	
43 Ca	45	1	55.120 ppb	10.07	65.00	
51 V	72	1	5.302 ppb	3.66	6.50	
52 Cr	72	1	2.201 ppb	0.97	2.60	
55 Mn	72	1	1.108 ppb	2.36	1.30	
57 Fe	72	1	59.600 ppb	0.37	65.00	
59 Co	72	1	1.141 ppb	1.05	1.30	
60 Ni	72	1	2.243 ppb	3.32	2.60	
63 Cu	72	1	2.253 ppb	1.51	2.60	
66 Zn	72	1	10.830 ppb	0.41	13.00	
75 As	72	1	5.343 ppb	0.50	6.50	
78 Se	72	1	5.135 ppb	9.29	6.50	
93 Nb	115	1	45.330 ppb	1.88	52.00	
95 Mo	115	1	2.039 ppb	1.44	2.60	
105 Pd	115	1	0.912 ppb	2.34	1.30	
107 Ag	115	1	5.456 ppb	0.83	6.50	
111 Cd	115	1	1.077 ppb	0.70	1.30	
118 Sn	115	1	10.450 ppb	1.18	13.00	
121 Sb	115	1	2.050 ppb	3.07	2.60	
137 Ba	115	1	1.058 ppb	3.06	1.30	
182 W	165	1	5.046 ppb	1.11	6.50	
195 Pt	165	1	1.029 ppb	1.39	1.30	
205 Tl	165	1	1.132 ppb	1.60	1.30	
208 Pb	165	1	1.132 ppb	2.63	1.30	
232 Th	165	1	1.129 ppb	2.33	2.60	
238 U	165	1	1.129 ppb	0.84	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	557434	1.84	552567	100.9	30 - 120	
45 Sc	1	2264948	1.62	2258491	100.3	30 - 120	
72 Ge	1	1021784	0.37	1048475	97.5	30 - 120	
115 In	1	2746382	0.24	2762482	99.4	30 - 120	
165 Ho	1	4233557	0.86	4237360	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\AG100609.B\025CALB.D\025CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: LRD

Date: 10/06/2009

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\070CALB.D\070CALB.D#
Date Acquired: Oct 6 2009 08:48 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:46 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	387115	2.32
24	Mg	6	1	6855	5.07
27	Al	45	1	22398	1.00
39	K	45	1	295741	0.59
43	Ca	45	1	20	50.37
51	V	72	1	7	1436.20
52	Cr	72	1	3621	7.56
55	Mn	72	1	710	7.22
57	Fe	72	1	620	7.81
59	Co	72	1	97	38.35
60	Ni	72	1	330	104.47
63	Cu	72	1	613	8.09
66	Zn	72	1	660	4.76
75	As	72	1	51	19.45
78	Se	72	1	610	14.32
93	Nb	115	1	13143	15.13
95	Mo	115	1	57	44.41
105	Pd	115	1	37	103.72
107	Ag	115	1	190	14.84
111	Cd	115	1	2	173.21
118	Sn	115	1	300	16.58
121	Sb	115	1	92	21.90
137	Ba	115	1	34	29.35
182	W	165	1	713	7.61
195	Pt	165	1	170	16.33
205	Tl	165	1	96	7.75
208	Pb	165	1	544	8.94
232	Th	165	1	190	15.14
238	U	165	1	22	53.27

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	515272	0.73
45	Sc	1	1864320	0.50
72	Ge	1	859327	0.79
115	In	1	2380008	1.24
165	Ho	1	3819194	1.07

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\AG100609.B\071ICAL.D\071ICAL.D#
Date Acquired: Oct 6 2009 08:51 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:49 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	58564	0.60
23	Na	6	1	40434140	0.48
24	Mg	6	1	25212150	0.40
27	Al	45	1	23115470	0.53
39	K	45	1	39135420	1.52
43	Ca	45	1	99462	1.74
51	V	72	1	1061463	1.59
52	Cr	72	1	1043683	1.63
55	Mn	72	1	1188829	1.48
57	Fe	72	1	2717619	1.02
59	Co	72	1	1303002	1.66
60	Ni	72	1	289547	2.05
63	Cu	72	1	684096	1.59
66	Zn	72	1	150729	1.33
75	As	72	1	128229	1.21
78	Se	72	1	23454	0.88
93	Nb	115	1	3565922	1.03
95	Mo	115	1	351897	1.40
105	Pd	115	1	448607	1.01
107	Ag	115	1	983304	1.44
111	Cd	115	1	197038	1.58
118	Sn	115	1	559609	1.00
121	Sb	115	1	638610	1.15
137	Ba	115	1	280309	1.10
182	W	165	1	926142	0.54
195	Pt	165	1	615314	0.22
205	Tl	165	1	2045973	0.96
208	Pb	165	1	2754356	0.31
232	Th	165	1	2951977	1.31
238	U	165	1	3040935	1.04

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478406	0.32	515272	92.8	30 - 120	
45	Sc	1	1739359	0.31	1864320	93.3	30 - 120	
72	Ge	1	792158	1.26	859327	92.2	30 - 120	
115	In	1	2191276	0.76	2380008	92.1	30 - 120	
165	Ho	1	3585439	0.61	3819194	93.9	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\AG100609.B\070CALB.D\070CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\072_CCV.D\072_CCV.D#
Date Acquired: Oct 6 2009 08:54 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	50.39	ppb	1.54	50	100.8	90 - 110	
23 Na	6	1	4975.00	ppb	0.61	5000	99.5	90 - 110	
24 Mg	6	1	4999.00	ppb	0.81	5000	100.0	90 - 110	
27 Al	45	1	4994.00	ppb	1.23	5000	99.9	90 - 110	
39 K	45	1	5033.00	ppb	0.91	5000	100.7	90 - 110	
43 Ca	45	1	4999.00	ppb	1.44	5000	100.0	90 - 110	
51 V	72	1	49.17	ppb	1.06	50	98.3	90 - 110	
52 Cr	72	1	50.03	ppb	0.34	50	100.1	90 - 110	
55 Mn	72	1	49.55	ppb	0.89	50	99.1	90 - 110	
57 Fe	72	1	5078.00	ppb	0.82	5000	101.6	90 - 110	
59 Co	72	1	49.35	ppb	0.83	50	98.7	90 - 110	
60 Ni	72	1	50.12	ppb	0.28	50	100.2	90 - 110	
63 Cu	72	1	50.49	ppb	0.86	50	101.0	90 - 110	
66 Zn	72	1	49.49	ppb	0.33	50	99.0	90 - 110	
75 As	72	1	50.05	ppb	0.33	50	100.1	90 - 110	
78 Se	72	1	51.31	ppb	1.63	50	102.6	90 - 110	
93 Nb	115	1	101.80	ppb	0.78	100	101.8	90 - 110	
95 Mo	115	1	49.44	ppb	0.97	50	98.9	90 - 110	
105 Pd	115	1	49.45	ppb	1.50	50	98.9	90 - 110	
107 Ag	115	1	50.66	ppb	1.66	50	101.3	90 - 110	
111 Cd	115	1	50.24	ppb	1.23	50	100.5	90 - 110	
118 Sn	115	1	49.51	ppb	1.37	50	99.0	90 - 110	
121 Sb	115	1	49.71	ppb	0.97	50	99.4	90 - 110	
137 Ba	115	1	49.57	ppb	1.92	50	99.1	90 - 110	
182 W	165	1	48.32	ppb	0.67	50	96.6	90 - 110	
195 Pt	165	1	49.67	ppb	1.05	50	99.3	90 - 110	
205 Tl	165	1	50.72	ppb	0.96	50	101.4	90 - 110	
208 Pb	165	1	50.95	ppb	0.79	50	101.9	90 - 110	
232 Th	165	1	51.04	ppb	0.82	50	102.1	90 - 110	
238 U	165	1	51.06	ppb	0.54	50	102.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	479600	0.49	515272	93.1	30 - 120	
45 Sc	1	1746174	0.86	1864320	93.7	30 - 120	
72 Ge	1	800207	0.73	859327	93.1	30 - 120	
115 In	1	2222355	0.75	2380008	93.4	30 - 120	
165 Ho	1	3635251	0.22	3819194	95.2	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\073_CCB.D\073_CCB.D#
Date Acquired: Oct 6 2009 08:57 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.017	ppb	99.88	1.00	
23 Na	6	1	-28.100	ppb	3.05	20.00	
24 Mg	6	1	-1.108	ppb	9.65	20.00	
27 Al	45	1	-5.315	ppb	0.94	20.00	
39 K	45	1	-2.692	ppb	36.13	20.00	
43 Ca	45	1	2.398	ppb	85.74	20.00	
51 V	72	1	0.001	ppb	3312.00	1.00	
52 Cr	72	1	0.007	ppb	76.26	1.00	
55 Mn	72	1	0.006	ppb	70.14	1.00	
57 Fe	72	1	0.911	ppb	90.12	20.00	
59 Co	72	1	0.009	ppb	24.79	1.00	
60 Ni	72	1	-0.051	ppb	19.88	1.00	
63 Cu	72	1	-0.007	ppb	96.71	1.00	
66 Zn	72	1	0.032	ppb	54.34	10.00	
75 As	72	1	0.014	ppb	63.93	1.00	
78 Se	72	1	0.287	ppb	153.52	1.00	
93 Nb	115	1	3.567	ppb	16.05	2.00	Fail
95 Mo	115	1	0.032	ppb	16.33	1.00	
105 Pd	115	1	0.028	ppb	4.51	1.00	
107 Ag	115	1	0.005	ppb	74.70	1.00	
111 Cd	115	1	0.007	ppb	68.18	1.00	
118 Sn	115	1	0.067	ppb	29.53	10.00	
121 Sb	115	1	0.193	ppb	8.68	1.00	
137 Ba	115	1	0.014	ppb	33.39	1.00	
182 W	165	1	0.042	ppb	34.43	5.00	
195 Pt	165	1	0.009	ppb	109.69	1.00	
205 Tl	165	1	0.027	ppb	8.92	1.00	
208 Pb	165	1	0.004	ppb	89.10	1.00	
232 Th	165	1	0.175	ppb	15.33	2.00	
238 U	165	1	0.016	ppb	3.60	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	490702	0.36	515272	95.2	30 - 120	
45 Sc	1	1774190	1.23	1864320	95.2	30 - 120	
72 Ge	1	833379	1.09	859327	97.0	30 - 120	
115 In	1	2298439	0.93	2380008	96.6	30 - 120	
165 Ho	1	3663681	0.84	3819194	95.9	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\074WASH.D\074WASH.D#
Date Acquired: Oct 6 2009 09:00 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.960 ppb	10.91	1.30	
23 Na	6	1	24.020 ppb	2.19	65.00	
24 Mg	6	1	55.240 ppb	1.03	65.00	
27 Al	45	1	27.520 ppb	1.92	39.00	
39 K	45	1	106.200 ppb	0.46	130.00	
43 Ca	45	1	62.960 ppb	11.46	65.00	
51 V	72	1	5.120 ppb	1.28	6.50	
52 Cr	72	1	2.140 ppb	3.97	2.60	
55 Mn	72	1	1.034 ppb	2.60	1.30	
57 Fe	72	1	57.280 ppb	2.73	65.00	
59 Co	72	1	1.065 ppb	4.21	1.30	
60 Ni	72	1	2.068 ppb	6.46	2.60	
63 Cu	72	1	2.196 ppb	4.58	2.60	
66 Zn	72	1	10.750 ppb	0.38	13.00	
75 As	72	1	5.165 ppb	0.74	6.50	
78 Se	72	1	5.780 ppb	6.29	6.50	
93 Nb	115	1	44.500 ppb	2.04	52.00	
95 Mo	115	1	2.073 ppb	1.94	2.60	
105 Pd	115	1	0.903 ppb	3.00	1.30	
107 Ag	115	1	5.497 ppb	0.32	6.50	
111 Cd	115	1	1.093 ppb	1.42	1.30	
118 Sn	115	1	10.540 ppb	0.66	13.00	
121 Sb	115	1	2.071 ppb	0.58	2.60	
137 Ba	115	1	1.053 ppb	4.79	1.30	
182 W	165	1	5.044 ppb	1.20	6.50	
195 Pt	165	1	1.008 ppb	3.41	1.30	
205 Tl	165	1	1.139 ppb	2.85	1.30	
208 Pb	165	1	1.138 ppb	2.77	1.30	
232 Th	165	1	2.303 ppb	2.30	2.60	
238 U	165	1	1.134 ppb	0.89	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	490958	0.16	515272	95.3	30 - 120	
45 Sc	1	1789263	0.75	1864320	96.0	30 - 120	
72 Ge	1	816377	0.56	859327	95.0	30 - 120	
115 In	1	2284882	0.67	2380008	96.0	30 - 120	
165 Ho	1	3660809	0.30	3819194	95.9	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\091_CCV.D\091_CCV.D#
Date Acquired: Oct 6 2009 09:50 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.39	ppb	1.31	50	98.8	90 - 110	
23 Na	6	1	5077.00	ppb	0.16	5000	101.5	90 - 110	
24 Mg	6	1	5046.00	ppb	1.47	5000	100.9	90 - 110	
27 Al	45	1	4987.00	ppb	1.00	5000	99.7	90 - 110	
39 K	45	1	5094.00	ppb	0.62	5000	101.9	90 - 110	
43 Ca	45	1	4991.00	ppb	1.20	5000	99.8	90 - 110	
51 V	72	1	49.90	ppb	1.31	50	99.8	90 - 110	
52 Cr	72	1	51.05	ppb	0.74	50	102.1	90 - 110	
55 Mn	72	1	50.31	ppb	1.33	50	100.6	90 - 110	
57 Fe	72	1	5189.00	ppb	0.88	5000	103.8	90 - 110	
59 Co	72	1	50.66	ppb	0.65	50	101.3	90 - 110	
60 Ni	72	1	50.94	ppb	2.21	50	101.9	90 - 110	
63 Cu	72	1	51.86	ppb	1.07	50	103.7	90 - 110	
66 Zn	72	1	50.31	ppb	0.54	50	100.6	90 - 110	
75 As	72	1	50.34	ppb	1.85	50	100.7	90 - 110	
78 Se	72	1	49.09	ppb	4.04	50	98.2	90 - 110	
93 Nb	115	1	92.18	ppb	2.63	100	92.2	90 - 110	
95 Mo	115	1	49.43	ppb	3.13	50	98.9	90 - 110	
105 Pd	115	1	49.67	ppb	1.60	50	99.3	90 - 110	
107 Ag	115	1	50.78	ppb	1.98	50	101.6	90 - 110	
111 Cd	115	1	49.36	ppb	2.46	50	98.7	90 - 110	
118 Sn	115	1	49.25	ppb	1.14	50	98.5	90 - 110	
121 Sb	115	1	48.46	ppb	1.18	50	96.9	90 - 110	
137 Ba	115	1	49.44	ppb	2.30	50	98.9	90 - 110	
182 W	165	1	48.42	ppb	0.93	50	96.8	90 - 110	
195 Pt	165	1	49.70	ppb	0.67	50	99.4	90 - 110	
205 Tl	165	1	50.97	ppb	1.49	50	101.9	90 - 110	
208 Pb	165	1	51.30	ppb	1.24	50	102.6	90 - 110	
232 Th	165	1	51.01	ppb	1.37	50	102.0	90 - 110	
238 U	165	1	51.55	ppb	0.51	50	103.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	453130	1.18	515272	87.9	30 - 120	
45 Sc	1	1660478	0.52	1864320	89.1	30 - 120	
72 Ge	1	753054	1.58	859327	87.6	30 - 120	
115 In	1	2152916	0.74	2380008	90.5	30 - 120	
165 Ho	1	3523081	0.40	3819194	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\092_CCB.D\092_CCB.D#
Date Acquired: Oct 6 2009 09:53 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.006	ppb	173.28	1.00	
23 Na	6	1	12.180	ppb	17.30	20.00	
24 Mg	6	1	1.043	ppb	19.03	20.00	
27 Al	45	1	-5.614	ppb	1.99	20.00	
39 K	45	1	1.769	ppb	62.69	20.00	
43 Ca	45	1	1.938	ppb	110.73	20.00	
51 V	72	1	-0.001	ppb	2870.20	1.00	
52 Cr	72	1	0.005	ppb	318.73	1.00	
55 Mn	72	1	0.002	ppb	111.26	1.00	
57 Fe	72	1	0.892	ppb	29.45	20.00	
59 Co	72	1	0.007	ppb	90.76	1.00	
60 Ni	72	1	-0.059	ppb	27.01	1.00	
63 Cu	72	1	0.009	ppb	93.24	1.00	
66 Zn	72	1	0.058	ppb	78.19	10.00	
75 As	72	1	0.010	ppb	48.54	1.00	
78 Se	72	1	0.343	ppb	105.79	1.00	
93 Nb	115	1	2.769	ppb	15.21	2.00	Fail
95 Mo	115	1	0.021	ppb	32.06	1.00	
105 Pd	115	1	0.015	ppb	64.01	1.00	
107 Ag	115	1	-0.004	ppb	53.84	1.00	
111 Cd	115	1	0.010	ppb	35.91	1.00	
118 Sn	115	1	0.051	ppb	4.99	10.00	
121 Sb	115	1	0.151	ppb	5.61	1.00	
137 Ba	115	1	0.012	ppb	74.88	1.00	
182 W	165	1	0.031	ppb	14.72	5.00	
195 Pt	165	1	0.008	ppb	125.38	1.00	
205 Tl	165	1	0.025	ppb	10.25	1.00	
208 Pb	165	1	0.002	ppb	42.38	1.00	
232 Th	165	1	0.177	ppb	17.36	2.00	
238 U	165	1	0.014	ppb	5.99	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	462083	0.44	515272	89.7	30 - 120	
45 Sc	1	1676264	0.61	1864320	89.9	30 - 120	
72 Ge	1	778608	0.31	859327	90.6	30 - 120	
115 In	1	2204457	1.24	2380008	92.6	30 - 120	
165 Ho	1	3537845	0.70	3819194	92.6	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\093WASH.D\093WASH.D#
Date Acquired: Oct 6 2009 09:56 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.894 ppb	4.75	1.30	
23 Na	6	1	48.890 ppb	3.33	65.00	
24 Mg	6	1	54.820 ppb	0.76	65.00	
27 Al	45	1	27.510 ppb	1.66	39.00	
39 K	45	1	109.900 ppb	1.99	130.00	
43 Ca	45	1	58.770 ppb	13.15	65.00	
51 V	72	1	5.234 ppb	1.62	6.50	
52 Cr	72	1	2.148 ppb	3.13	2.60	
55 Mn	72	1	1.072 ppb	4.05	1.30	
57 Fe	72	1	58.150 ppb	0.45	65.00	
59 Co	72	1	1.108 ppb	4.81	1.30	
60 Ni	72	1	2.269 ppb	7.46	2.60	
63 Cu	72	1	2.233 ppb	3.84	2.60	
66 Zn	72	1	10.730 ppb	2.13	13.00	
75 As	72	1	5.310 ppb	2.74	6.50	
78 Se	72	1	6.310 ppb	14.63	6.50	
93 Nb	115	1	41.500 ppb	1.96	52.00	
95 Mo	115	1	2.036 ppb	2.82	2.60	
105 Pd	115	1	0.899 ppb	8.95	1.30	
107 Ag	115	1	5.223 ppb	1.75	6.50	
111 Cd	115	1	1.041 ppb	6.14	1.30	
118 Sn	115	1	10.210 ppb	1.20	13.00	
121 Sb	115	1	1.999 ppb	2.39	2.60	
137 Ba	115	1	1.041 ppb	1.11	1.30	
182 W	165	1	4.924 ppb	1.18	6.50	
195 Pt	165	1	0.990 ppb	4.00	1.30	
205 Tl	165	1	1.107 ppb	1.13	1.30	
208 Pb	165	1	1.098 ppb	2.01	1.30	
232 Th	165	1	2.321 ppb	0.88	2.60	
238 U	165	1	1.126 ppb	0.68	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	463056	1.34	515272	89.9	30 - 120	
45 Sc	1	1683484	0.73	1864320	90.3	30 - 120	
72 Ge	1	756406	1.90	859327	88.0	30 - 120	
115 In	1	2203846	0.89	2380008	92.6	30 - 120	
165 Ho	1	3555854	0.63	3819194	93.1	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\AG100609.B\070CALB.D\070CALB.D#

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

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\094ICSA.D\094ICSA.D#
Date Acquired: Oct 6 2009 09:59 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSA
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:52 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	173.14	1.00	
23	Na	6	1	104500.00 ppb	0.43	100000.00	
24	Mg	6	1	102100.00 ppb	0.91	100000.00	
27	Al	45	1	99240.00 ppb	1.58	100000.00	
39	K	45	1	100900.00 ppb	1.07	100000.00	
43	Ca	45	1	104600.00 ppb	1.77	100000.00	
51	V	72	1	-0.56 ppb	9.48	1.00	
52	Cr	72	1	0.70 ppb	2.29	1.00	
55	Mn	72	1	4.16 ppb	3.24	1.00	
57	Fe	72	1	94490.00 ppb	0.24	100000.00	
59	Co	72	1	1.47 ppb	3.25	1.00	
60	Ni	72	1	1.69 ppb	7.41	1.00	
63	Cu	72	1	1.49 ppb	0.76	1.00	
66	Zn	72	1	3.18 ppb	0.37	10.00	
75	As	72	1	0.56 ppb	4.43	1.00	
78	Se	72	1	0.41 ppb	70.08	1.00	
93	Nb	115	1	3.38 ppb	16.06	2.00	
95	Mo	115	1	2020.00 ppb	1.46	2000.00	
105	Pd	115	1	0.04 ppb	22.10	1.00	
107	Ag	115	1	0.05 ppb	20.78	1.00	
111	Cd	115	1	3.02 ppb	1.55	1.00	
118	Sn	115	1	0.16 ppb	7.83	10.00	
121	Sb	115	1	0.29 ppb	5.36	1.00	
137	Ba	115	1	0.06 ppb	22.58	1.00	
182	W	165	1	0.13 ppb	1.10	5.00	
195	Pt	165	1	0.00 ppb	8464.20	1.00	
205	Tl	165	1	0.03 ppb	29.04	1.00	
208	Pb	165	1	0.10 ppb	5.05	1.00	
232	Th	165	1	0.03 ppb	22.69	2.00	
238	U	165	1	0.01 ppb	6.90	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	411279	0.79	515272	79.8	30 - 120	
45	Sc	1	1557385	1.19	1864320	83.5	30 - 120	
72	Ge	1	707511	0.81	859327	82.3	30 - 120	
115	In	1	1919072	1.31	2380008	80.6	30 - 120	
165	Ho	1	3153164	0.34	3819194	82.6	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\AG100609.B\070CALB.D\070CALB.D#

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

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\095ICSB.D\095ICSB.D#
Date Acquired: Oct 6 2009 10:02 pm
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: ICSAB
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 06 2009 08:52 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	103.20	1.21	100	103.2	80 - 120	
23 Na	6	1	117500.00	0.84	110000	106.8	80 - 120	
24 Mg	6	1	114700.00	0.34	110000	104.3	80 - 120	
27 Al	45	1	106900.00	1.80	110000	97.2	80 - 120	
39 K	45	1	109900.00	1.54	110000	99.9	80 - 120	
43 Ca	45	1	114100.00	0.76	110000	103.7	80 - 120	
51 V	72	1	101.00	0.05	100	101.0	80 - 120	
52 Cr	72	1	100.80	0.18	100	100.8	80 - 120	
55 Mn	72	1	102.60	0.81	100	102.6	80 - 120	
57 Fe	72	1	104700.00	0.82	110000	95.2	80 - 120	
59 Co	72	1	98.38	1.62	100	98.4	80 - 120	
60 Ni	72	1	94.94	0.32	100	94.9	80 - 120	
63 Cu	72	1	94.71	0.40	100	94.7	80 - 120	
66 Zn	72	1	96.94	0.10	100	96.9	80 - 120	
75 As	72	1	100.20	0.47	100	100.2	80 - 120	
78 Se	72	1	104.70	0.70	100	104.7	80 - 120	
93 Nb	115	1	196.40	0.73	200	98.2	80 - 120	
95 Mo	115	1	2109.00	0.24	2100	100.4	80 - 120	
105 Pd	115	1	93.68	0.73	100	93.7	80 - 120	
107 Ag	115	1	88.34	5.53	100	88.3	80 - 120	
111 Cd	115	1	96.13	1.27	100	96.1	80 - 120	
118 Sn	115	1	98.53	0.33	100	98.5	80 - 120	
121 Sb	115	1	99.25	0.60	100	99.3	80 - 120	
137 Ba	115	1	99.12	0.78	100	99.1	80 - 120	
182 W	165	1	98.70	1.19	100	98.7	80 - 120	
195 Pt	165	1	94.81	0.66	100	94.8	80 - 120	
205 Tl	165	1	96.06	2.04	100	96.1	80 - 120	
208 Pb	165	1	95.24	0.49	100	95.2	80 - 120	
232 Th	165	1	99.42	0.56	100	99.4	80 - 120	
238 U	165	1	100.20	0.72	100	100.2	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389629	1.01	515272	75.6	30 - 120	
45 Sc	1	1533086	0.92	1864320	82.2	30 - 120	
72 Ge	1	689451	0.84	859327	80.2	30 - 120	
115 In	1	1904690	0.40	2380008	80.0	30 - 120	
165 Ho	1	3089600	0.69	3819194	80.9	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\096WASH.D\096WASH.D#
Date Acquired: Oct 6 2009 10:05 pm
Operator: TEL
Sample Name: WASH
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	173.22	1.30	
23 Na	6	1	16.560 ppb	36.53	65.00	
24 Mg	6	1	10.410 ppb	17.91	65.00	
27 Al	45	1	7.239 ppb	23.80	39.00	
39 K	45	1	12.760 ppb	26.93	130.00	
43 Ca	45	1	18.150 ppb	6.53	65.00	
51 V	72	1	0.000 ppb	16710.00	6.50	
52 Cr	72	1	-0.005 ppb	368.81	2.60	
55 Mn	72	1	0.015 ppb	29.62	1.30	
57 Fe	72	1	12.590 ppb	12.08	65.00	
59 Co	72	1	0.008 ppb	51.92	1.30	
60 Ni	72	1	-0.080 ppb	16.18	2.60	
63 Cu	72	1	0.008 ppb	127.10	2.60	
66 Zn	72	1	0.101 ppb	27.61	13.00	
75 As	72	1	0.023 ppb	35.64	6.50	
78 Se	72	1	0.237 ppb	35.10	6.50	
93 Nb	115	1	4.295 ppb	17.78	52.00	
95 Mo	115	1	1.106 ppb	1.85	2.60	
105 Pd	115	1	0.004 ppb	59.60	1.30	
107 Ag	115	1	0.001 ppb	214.12	6.50	
111 Cd	115	1	0.007 ppb	23.06	1.30	
118 Sn	115	1	0.073 ppb	27.66	13.00	
121 Sb	115	1	0.129 ppb	6.30	2.60	
137 Ba	115	1	0.009 ppb	15.60	1.30	
182 W	165	1	0.061 ppb	3.87	6.50	
195 Pt	165	1	0.006 ppb	74.10	1.30	
205 Tl	165	1	0.020 ppb	9.66	1.30	
208 Pb	165	1	0.000 ppb	688.94	1.30	
232 Th	165	1	0.263 ppb	16.28	2.60	
238 U	165	1	0.021 ppb	8.78	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	450485	0.29	515272	87.4	30 - 120	
45 Sc	1	1659558	1.19	1864320	89.0	30 - 120	
72 Ge	1	762617	2.77	859327	88.7	30 - 120	
115 In	1	2188467	1.02	2380008	92.0	30 - 120	
165 Ho	1	3478235	0.58	3819194	91.1	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\097_CCV.D\097_CCV.D#
Date Acquired: Oct 6 2009 10:08 pm
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.75	ppb	1.50	50	99.5	90 - 110	
23 Na	6	1	5079.00	ppb	0.68	5000	101.6	90 - 110	
24 Mg	6	1	5099.00	ppb	1.32	5000	102.0	90 - 110	
27 Al	45	1	4955.00	ppb	1.42	5000	99.1	90 - 110	
39 K	45	1	5078.00	ppb	1.27	5000	101.6	90 - 110	
43 Ca	45	1	5060.00	ppb	1.15	5000	101.2	90 - 110	
51 V	72	1	50.42	ppb	0.59	50	100.8	90 - 110	
52 Cr	72	1	51.34	ppb	1.10	50	102.7	90 - 110	
55 Mn	72	1	51.06	ppb	0.72	50	102.1	90 - 110	
57 Fe	72	1	5245.00	ppb	0.22	5000	104.9	90 - 110	
59 Co	72	1	51.58	ppb	0.48	50	103.2	90 - 110	
60 Ni	72	1	52.59	ppb	1.33	50	105.2	90 - 110	
63 Cu	72	1	52.44	ppb	0.15	50	104.9	90 - 110	
66 Zn	72	1	49.91	ppb	0.31	50	99.8	90 - 110	
75 As	72	1	51.48	ppb	0.58	50	103.0	90 - 110	
78 Se	72	1	52.92	ppb	3.65	50	105.8	90 - 110	
93 Nb	115	1	100.40	ppb	1.60	100	100.4	90 - 110	
95 Mo	115	1	50.00	ppb	0.67	50	100.0	90 - 110	
105 Pd	115	1	50.27	ppb	0.48	50	100.5	90 - 110	
107 Ag	115	1	51.04	ppb	0.84	50	102.1	90 - 110	
111 Cd	115	1	49.29	ppb	0.51	50	98.6	90 - 110	
118 Sn	115	1	49.13	ppb	0.45	50	98.3	90 - 110	
121 Sb	115	1	48.75	ppb	0.67	50	97.5	90 - 110	
137 Ba	115	1	49.54	ppb	0.59	50	99.1	90 - 110	
182 W	165	1	48.05	ppb	1.28	50	96.1	90 - 110	
195 Pt	165	1	49.73	ppb	1.51	50	99.5	90 - 110	
205 Tl	165	1	51.57	ppb	0.33	50	103.1	90 - 110	
208 Pb	165	1	51.34	ppb	1.54	50	102.7	90 - 110	
232 Th	165	1	51.16	ppb	1.17	50	102.3	90 - 110	
238 U	165	1	51.40	ppb	0.70	50	102.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	439714	1.12	515272	85.3	30 - 120	
45 Sc	1	1662666	0.90	1864320	89.2	30 - 120	
72 Ge	1	744576	1.25	859327	86.6	30 - 120	
115 In	1	2134363	0.52	2380008	89.7	30 - 120	
165 Ho	1	3441729	1.08	3819194	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\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\070CALB.D\070CALB.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\AG100609.B\098_CCB.D\098_CCB.D#
Date Acquired: Oct 6 2009 10:11 pm
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	0.006	ppb	173.17	1.00	
23 Na	6	1	-29.320	ppb	1.57	20.00	
24 Mg	6	1	-0.324	ppb	76.82	20.00	
27 Al	45	1	-4.605	ppb	3.37	20.00	
39 K	45	1	-2.043	ppb	21.37	20.00	
43 Ca	45	1	1.229	ppb	222.86	20.00	
51 V	72	1	0.022	ppb	148.07	1.00	
52 Cr	72	1	0.017	ppb	262.35	1.00	
55 Mn	72	1	0.000	ppb	596.26	1.00	
57 Fe	72	1	2.564	ppb	16.14	20.00	
59 Co	72	1	0.003	ppb	129.47	1.00	
60 Ni	72	1	-0.062	ppb	20.79	1.00	
63 Cu	72	1	-0.004	ppb	283.57	1.00	
66 Zn	72	1	0.022	ppb	73.15	10.00	
75 As	72	1	0.013	ppb	24.86	1.00	
78 Se	72	1	0.553	ppb	118.32	1.00	
93 Nb	115	1	3.306	ppb	14.77	2.00	Fail
95 Mo	115	1	0.126	ppb	18.78	1.00	
105 Pd	115	1	0.021	ppb	35.25	1.00	
107 Ag	115	1	-0.005	ppb	61.95	1.00	
111 Cd	115	1	0.010	ppb	26.15	1.00	
118 Sn	115	1	0.045	ppb	24.58	10.00	
121 Sb	115	1	0.165	ppb	6.45	1.00	
137 Ba	115	1	0.012	ppb	3.66	1.00	
182 W	165	1	0.053	ppb	26.35	5.00	
195 Pt	165	1	0.005	ppb	39.10	1.00	
205 Tl	165	1	0.023	ppb	10.65	1.00	
208 Pb	165	1	0.005	ppb	60.62	1.00	
232 Th	165	1	0.164	ppb	11.71	2.00	
238 U	165	1	0.016	ppb	7.16	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	452930	0.86	515272	87.9	30 - 120	
45 Sc	1	1682993	0.55	1864320	90.3	30 - 120	
72 Ge	1	765091	2.14	859327	89.0	30 - 120	
115 In	1	2192674	1.13	2380008	92.1	30 - 120	
165 Ho	1	3481617	0.30	3819194	91.2	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\AG100609.B\070CALB.D\070CALB.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\AG100609.B\099WASH.D\099WASH.D#
Date Acquired: Oct 6 2009 10:14 pm
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 06 2009 08:52 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	1.127 ppb	8.31	1.30	
23 Na	6	1	20.620 ppb	7.22	65.00	
24 Mg	6	1	54.480 ppb	1.40	65.00	
27 Al	45	1	27.460 ppb	3.31	39.00	
39 K	45	1	106.300 ppb	1.46	130.00	
43 Ca	45	1	57.060 ppb	6.00	65.00	
51 V	72	1	5.167 ppb	1.70	6.50	
52 Cr	72	1	2.211 ppb	2.77	2.60	
55 Mn	72	1	1.031 ppb	1.85	1.30	
57 Fe	72	1	56.700 ppb	1.00	65.00	
59 Co	72	1	1.067 ppb	1.07	1.30	
60 Ni	72	1	2.216 ppb	7.09	2.60	
63 Cu	72	1	2.210 ppb	2.61	2.60	
66 Zn	72	1	10.430 ppb	0.87	13.00	
75 As	72	1	5.213 ppb	5.02	6.50	
78 Se	72	1	5.660 ppb	17.44	6.50	
93 Nb	115	1	44.260 ppb	3.34	52.00	
95 Mo	115	1	2.087 ppb	2.17	2.60	
105 Pd	115	1	0.901 ppb	4.28	1.30	
107 Ag	115	1	5.368 ppb	0.72	6.50	
111 Cd	115	1	1.020 ppb	0.12	1.30	
118 Sn	115	1	10.280 ppb	0.88	13.00	
121 Sb	115	1	2.029 ppb	2.69	2.60	
137 Ba	115	1	1.069 ppb	0.90	1.30	
182 W	165	1	4.942 ppb	2.96	6.50	
195 Pt	165	1	1.004 ppb	4.95	1.30	
205 Tl	165	1	1.114 ppb	2.02	1.30	
208 Pb	165	1	1.106 ppb	0.91	1.30	
232 Th	165	1	2.292 ppb	2.48	2.60	
238 U	165	1	1.116 ppb	1.12	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	449435	0.56	515272	87.2	30 - 120	
45 Sc	1	1701866	0.82	1864320	91.3	30 - 120	
72 Ge	1	763212	0.90	859327	88.8	30 - 120	
115 In	1	2173073	0.32	2380008	91.3	30 - 120	
165 Ho	1	3469270	0.42	3819194	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\AG100609.B\070CALB.D\070CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: _____

Date: 10/7/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\164CALB.D\164CALB.D#
Date Acquired: Oct 7 2009 01:26 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 01:24 am
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	218291	2.12
24	Mg	6	1	1530	6.77
27	Al	45	1	16663	0.31
39	K	45	1	273799	2.17
43	Ca	45	1	27	22.43
51	V	72	1	83	223.90
52	Cr	72	1	3140	3.71
55	Mn	72	1	520	11.33
57	Fe	72	1	657	19.55
59	Co	72	1	77	40.57
60	Ni	72	1	127	9.92
63	Cu	72	1	683	25.90
66	Zn	72	1	714	1.25
75	As	72	1	63	28.75
78	Se	72	1	773	5.51
93	Nb	115	1	7169	14.47
95	Mo	115	1	163	18.28
105	Pd	115	1	10	0.47
107	Ag	115	1	10	99.71
111	Cd	115	1	9	43.82
118	Sn	115	1	263	16.27
121	Sb	115	1	67	9.90
137	Ba	115	1	36	29.09
182	W	165	1	743	11.52
195	Pt	165	1	123	12.07
205	Tl	165	1	67	27.81
208	Pb	165	1	414	8.05
232	Th	165	1	297	5.47
238	U	165	1	21	39.43

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	439634	1.08
45	Sc	1	1729799	1.14
72	Ge	1	772743	0.87
115	In	1	2201847	0.47
165	Ho	1	3448774	0.33

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\AG100609.B\165ICAL.D\165ICAL.D#
Date Acquired: Oct 7 2009 01:29 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 01:27 am
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	50174	0.90
23	Na	6	1	35734848	0.12
24	Mg	6	1	22256000	0.57
27	Al	45	1	20879440	0.77
39	K	45	1	36913912	0.68
43	Ca	45	1	90806	2.24
51	V	72	1	978388	1.61
52	Cr	72	1	966811	1.26
55	Mn	72	1	1098769	2.01
57	Fe	72	1	2500922	1.01
59	Co	72	1	1197678	1.18
60	Ni	72	1	268890	0.20
63	Cu	72	1	640955	0.78
66	Zn	72	1	134703	0.31
75	As	72	1	117907	0.38
78	Se	72	1	21898	2.35
93	Nb	115	1	3347532	0.94
95	Mo	115	1	328073	1.96
105	Pd	115	1	417383	1.62
107	Ag	115	1	920355	2.07
111	Cd	115	1	179860	1.50
118	Sn	115	1	515007	0.83
121	Sb	115	1	570618	1.44
137	Ba	115	1	260733	1.10
182	W	165	1	821212	1.90
195	Pt	165	1	554298	0.67
205	Tl	165	1	1877919	0.55
208	Pb	165	1	2510608	0.16
232	Th	165	1	2715286	0.34
238	U	165	1	2776529	0.15

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	406364	0.68	439634	92.4	30 - 120	
45	Sc	1	1576066	0.86	1729799	91.1	30 - 120	
72	Ge	1	707867	1.04	772743	91.6	30 - 120	
115	In	1	2024033	0.78	2201847	91.9	30 - 120	
165	Ho	1	3252420	0.22	3448774	94.3	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\AG100609.B\164CALB.D\164CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\166_CCV.D\166_CCV.D#
Date Acquired: Oct 7 2009 01:32 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 01:30 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.33	ppb	0.44	50	98.7	90 - 110	
23 Na	6	1	4942.00	ppb	0.88	5000	98.8	90 - 110	
24 Mg	6	1	4973.00	ppb	0.39	5000	99.5	90 - 110	
27 Al	45	1	4989.00	ppb	1.29	5000	99.8	90 - 110	
39 K	45	1	5023.00	ppb	1.22	5000	100.5	90 - 110	
43 Ca	45	1	5031.00	ppb	0.69	5000	100.6	90 - 110	
51 V	72	1	49.19	ppb	0.32	50	98.4	90 - 110	
52 Cr	72	1	49.51	ppb	0.14	50	99.0	90 - 110	
55 Mn	72	1	49.45	ppb	0.97	50	98.9	90 - 110	
57 Fe	72	1	5102.00	ppb	1.35	5000	102.0	90 - 110	
59 Co	72	1	49.94	ppb	1.73	50	99.9	90 - 110	
60 Ni	72	1	50.43	ppb	1.32	50	100.9	90 - 110	
63 Cu	72	1	50.17	ppb	0.76	50	100.3	90 - 110	
66 Zn	72	1	49.62	ppb	1.14	50	99.2	90 - 110	
75 As	72	1	49.96	ppb	0.72	50	99.9	90 - 110	
78 Se	72	1	48.75	ppb	5.59	50	97.5	90 - 110	
93 Nb	115	1	101.10	ppb	0.23	100	101.1	90 - 110	
95 Mo	115	1	48.82	ppb	0.82	50	97.6	90 - 110	
105 Pd	115	1	49.12	ppb	0.31	50	98.2	90 - 110	
107 Ag	115	1	50.26	ppb	1.48	50	100.5	90 - 110	
111 Cd	115	1	49.08	ppb	1.06	50	98.2	90 - 110	
118 Sn	115	1	49.28	ppb	2.35	50	98.6	90 - 110	
121 Sb	115	1	49.56	ppb	0.74	50	99.1	90 - 110	
137 Ba	115	1	49.16	ppb	1.75	50	98.3	90 - 110	
182 W	165	1	48.99	ppb	1.23	50	98.0	90 - 110	
195 Pt	165	1	49.80	ppb	1.24	50	99.6	90 - 110	
205 Tl	165	1	50.90	ppb	1.66	50	101.8	90 - 110	
208 Pb	165	1	51.07	ppb	0.11	50	102.1	90 - 110	
232 Th	165	1	50.30	ppb	2.34	50	100.6	90 - 110	
238 U	165	1	50.66	ppb	1.80	50	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	414779	0.25	439634	94.3	30 - 120	
45 Sc	1	1589048	1.25	1729799	91.9	30 - 120	
72 Ge	1	712522	0.37	772743	92.2	30 - 120	
115 In	1	2064341	0.58	2201847	93.8	30 - 120	
165 Ho	1	3283010	0.69	3448774	95.2	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\AG100609.B\164CALB.D\164CALB.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\AG100609.B\167_CCB.D\167_CCB.D#
Date Acquired: Oct 7 2009 01:35 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 01:30 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.000	ppb	0.00	1.00	
23 Na	6	1	-4.957	ppb	6.04	20.00	
24 Mg	6	1	0.784	ppb	3.98	20.00	
27 Al	45	1	-3.531	ppb	1.71	20.00	
39 K	45	1	2.048	ppb	21.25	20.00	
43 Ca	45	1	-0.205	ppb	585.37	20.00	
51 V	72	1	-0.002	ppb	1244.20	1.00	
52 Cr	72	1	0.013	ppb	84.23	1.00	
55 Mn	72	1	0.006	ppb	175.42	1.00	
57 Fe	72	1	1.098	ppb	49.26	20.00	
59 Co	72	1	0.011	ppb	45.64	1.00	
60 Ni	72	1	0.018	ppb	88.11	1.00	
63 Cu	72	1	-0.027	ppb	38.86	1.00	
66 Zn	72	1	-0.048	ppb	45.07	10.00	
75 As	72	1	0.003	ppb	487.54	1.00	
78 Se	72	1	-0.265	ppb	252.66	1.00	
93 Nb	115	1	3.473	ppb	16.25	2.00	Fail
95 Mo	115	1	0.015	ppb	112.77	1.00	
105 Pd	115	1	0.037	ppb	20.15	1.00	
107 Ag	115	1	0.015	ppb	7.38	1.00	
111 Cd	115	1	0.009	ppb	73.77	1.00	
118 Sn	115	1	0.049	ppb	50.65	10.00	
121 Sb	115	1	0.193	ppb	9.88	1.00	
137 Ba	115	1	0.014	ppb	18.29	1.00	
182 W	165	1	0.039	ppb	20.83	5.00	
195 Pt	165	1	0.013	ppb	34.65	1.00	
205 Tl	165	1	0.025	ppb	19.67	1.00	
208 Pb	165	1	0.007	ppb	49.06	1.00	
232 Th	165	1	0.178	ppb	17.17	2.00	
238 U	165	1	0.017	ppb	9.08	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	427177	1.20	439634	97.2	30 - 120	
45 Sc	1	1627272	1.94	1729799	94.1	30 - 120	
72 Ge	1	756402	0.28	772743	97.9	30 - 120	
115 In	1	2153207	0.52	2201847	97.8	30 - 120	
165 Ho	1	3365194	0.11	3448774	97.6	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\AG100609.B\164CALB.D\164CALB.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\AG100609.B\168WASH.D\168WASH.D#
Date Acquired: Oct 7 2009 01:38 am
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 01:30 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.843 ppb	26.62	1.30	
23 Na	6	1	48.550 ppb	1.13	65.00	
24 Mg	6	1	55.380 ppb	0.63	65.00	
27 Al	45	1	30.520 ppb	1.89	39.00	
39 K	45	1	109.900 ppb	1.33	130.00	
43 Ca	45	1	56.140 ppb	22.44	65.00	
51 V	72	1	5.046 ppb	2.94	6.50	
52 Cr	72	1	2.111 ppb	3.28	2.60	
55 Mn	72	1	1.043 ppb	2.89	1.30	
57 Fe	72	1	56.260 ppb	2.42	65.00	
59 Co	72	1	1.074 ppb	2.64	1.30	
60 Ni	72	1	2.132 ppb	2.97	2.60	
63 Cu	72	1	2.110 ppb	1.73	2.60	
66 Zn	72	1	10.470 ppb	1.96	13.00	
75 As	72	1	4.998 ppb	1.49	6.50	
78 Se	72	1	4.911 ppb	19.51	6.50	
93 Nb	115	1	44.400 ppb	4.20	52.00	
95 Mo	115	1	1.880 ppb	2.27	2.60	
105 Pd	115	1	0.859 ppb	3.82	1.30	
107 Ag	115	1	5.393 ppb	1.68	6.50	
111 Cd	115	1	1.057 ppb	5.29	1.30	
118 Sn	115	1	10.140 ppb	2.49	13.00	
121 Sb	115	1	2.022 ppb	2.57	2.60	
137 Ba	115	1	1.063 ppb	6.03	1.30	
182 W	165	1	4.972 ppb	1.44	6.50	
195 Pt	165	1	1.050 ppb	5.07	1.30	
205 Tl	165	1	1.116 ppb	1.15	1.30	
208 Pb	165	1	1.109 ppb	1.05	1.30	
232 Th	165	1	2.254 ppb	0.98	2.60	
238 U	165	1	1.116 ppb	1.33	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	429859	1.04	439634	97.8	30 - 120	
45 Sc	1	1672479	1.09	1729799	96.7	30 - 120	
72 Ge	1	749351	1.21	772743	97.0	30 - 120	
115 In	1	2152066	0.86	2201847	97.7	30 - 120	
165 Ho	1	3368569	0.22	3448774	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\164CALB.D\164CALB.D#

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

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

…"During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: _____

Date: 10/7/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\209CALB.D\209CALB.D#
Date Acquired: Oct 7 2009 03:39 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: Cal Blank
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:37 am
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
23	Na	6	1	183759	0.77
24	Mg	6	1	2504	2.72
27	Al	45	1	19711	3.45
39	K	45	1	265434	0.75
43	Ca	45	1	7	173.22
51	V	72	1	93	259.53
52	Cr	72	1	3117	7.50
55	Mn	72	1	493	30.29
57	Fe	72	1	747	13.22
59	Co	72	1	67	57.51
60	Ni	72	1	80	44.03
63	Cu	72	1	487	12.71
66	Zn	72	1	708	4.07
75	As	72	1	46	23.40
78	Se	72	1	690	6.15
93	Nb	115	1	6172	14.64
95	Mo	115	1	187	6.77
105	Pd	115	1	7	86.62
107	Ag	115	1	37	95.51
111	Cd	115	1	4	43.93
118	Sn	115	1	310	9.23
121	Sb	115	1	57	17.64
137	Ba	115	1	41	25.67
182	W	165	1	640	11.06
195	Pt	165	1	110	15.58
205	Tl	165	1	52	32.43
208	Pb	165	1	378	14.61
232	Th	165	1	237	20.29
238	U	165	1	29	23.83

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	423022	1.09
45	Sc	1	1641233	0.13
72	Ge	1	731921	0.95
115	In	1	2073602	0.57
165	Ho	1	3248591	0.30

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\AG100609.B\210ICAL.D\210ICAL.D#
Date Acquired: Oct 7 2009 03:42 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: 100 ppb
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:40 am
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	47124	1.21
23	Na	6	1	34469912	1.41
24	Mg	6	1	21364830	1.74
27	Al	45	1	20060220	0.44
39	K	45	1	35425400	0.79
43	Ca	45	1	87810	0.82
51	V	72	1	931538	1.15
52	Cr	72	1	915081	0.32
55	Mn	72	1	1042725	0.58
57	Fe	72	1	2369288	1.27
59	Co	72	1	1142336	0.57
60	Ni	72	1	252744	0.97
63	Cu	72	1	595916	0.54
66	Zn	72	1	125539	0.20
75	As	72	1	109883	0.63
78	Se	72	1	20673	0.73
93	Nb	115	1	3129084	1.70
95	Mo	115	1	306406	1.76
105	Pd	115	1	389233	1.22
107	Ag	115	1	875808	1.77
111	Cd	115	1	169522	1.49
118	Sn	115	1	488445	1.98
121	Sb	115	1	539119	1.55
137	Ba	115	1	247693	2.26
182	W	165	1	770701	1.05
195	Pt	165	1	528285	0.46
205	Tl	165	1	1785100	0.32
208	Pb	165	1	2389859	1.80
232	Th	165	1	2574380	0.77
238	U	165	1	2644744	0.92

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	388298	1.15	423022	91.8	30 - 120	
45	Sc	1	1511565	0.18	1641233	92.1	30 - 120	
72	Ge	1	662011	0.39	731921	90.4	30 - 120	
115	In	1	1908330	1.13	2073602	92.0	30 - 120	
165	Ho	1	3106035	0.60	3248591	95.6	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\AG100609.B\209CALB.D\209CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\211_CCV.D\211_CCV.D#
Date Acquired: Oct 7 2009 03:45 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.43	ppb	4.17	50	98.9	90 - 110	
23 Na	6	1	4945.00	ppb	0.88	5000	98.9	90 - 110	
24 Mg	6	1	4967.00	ppb	1.21	5000	99.3	90 - 110	
27 Al	45	1	5039.00	ppb	0.42	5000	100.8	90 - 110	
39 K	45	1	5059.00	ppb	0.53	5000	101.2	90 - 110	
43 Ca	45	1	4981.00	ppb	2.60	5000	99.6	90 - 110	
51 V	72	1	48.43	ppb	0.94	50	96.9	90 - 110	
52 Cr	72	1	49.12	ppb	1.26	50	98.2	90 - 110	
55 Mn	72	1	49.40	ppb	1.47	50	98.8	90 - 110	
57 Fe	72	1	5062.00	ppb	1.11	5000	101.2	90 - 110	
59 Co	72	1	48.88	ppb	1.17	50	97.8	90 - 110	
60 Ni	72	1	50.32	ppb	2.38	50	100.6	90 - 110	
63 Cu	72	1	50.31	ppb	1.04	50	100.6	90 - 110	
66 Zn	72	1	49.63	ppb	0.72	50	99.3	90 - 110	
75 As	72	1	50.01	ppb	1.87	50	100.0	90 - 110	
78 Se	72	1	48.78	ppb	4.34	50	97.6	90 - 110	
93 Nb	115	1	102.10	ppb	0.85	100	102.1	90 - 110	
95 Mo	115	1	49.31	ppb	0.82	50	98.6	90 - 110	
105 Pd	115	1	49.77	ppb	1.18	50	99.5	90 - 110	
107 Ag	115	1	50.32	ppb	0.69	50	100.6	90 - 110	
111 Cd	115	1	49.82	ppb	2.35	50	99.6	90 - 110	
118 Sn	115	1	49.45	ppb	0.46	50	98.9	90 - 110	
121 Sb	115	1	49.54	ppb	0.93	50	99.1	90 - 110	
137 Ba	115	1	49.46	ppb	1.04	50	98.9	90 - 110	
182 W	165	1	49.80	ppb	0.94	50	99.6	90 - 110	
195 Pt	165	1	49.70	ppb	1.06	50	99.4	90 - 110	
205 Tl	165	1	51.49	ppb	1.42	50	103.0	90 - 110	
208 Pb	165	1	50.92	ppb	0.92	50	101.8	90 - 110	
232 Th	165	1	51.11	ppb	0.65	50	102.2	90 - 110	
238 U	165	1	51.23	ppb	0.62	50	102.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	396318	0.51	423022	93.7	30 - 120	
45 Sc	1	1512287	0.28	1641233	92.1	30 - 120	
72 Ge	1	672303	0.65	731921	91.9	30 - 120	
115 In	1	1939064	0.25	2073602	93.5	30 - 120	
165 Ho	1	3132084	0.22	3248591	96.4	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\212_CCB.D\212_CCB.D#
Date Acquired: Oct 7 2009 03:48 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.034	ppb	34.72	1.00	
23 Na	6	1	-2.593	ppb	14.71	20.00	
24 Mg	6	1	1.060	ppb	16.88	20.00	
27 Al	45	1	-4.054	ppb	3.60	20.00	
39 K	45	1	2.662	ppb	3.23	20.00	
43 Ca	45	1	4.869	ppb	69.25	20.00	
51 V	72	1	0.007	ppb	338.58	1.00	
52 Cr	72	1	0.042	ppb	24.95	1.00	
55 Mn	72	1	0.013	ppb	69.44	1.00	
57 Fe	72	1	0.969	ppb	39.02	20.00	
59 Co	72	1	0.012	ppb	31.39	1.00	
60 Ni	72	1	0.010	ppb	181.56	1.00	
63 Cu	72	1	-0.010	ppb	61.21	1.00	
66 Zn	72	1	-0.071	ppb	14.28	10.00	
75 As	72	1	0.018	ppb	122.74	1.00	
78 Se	72	1	0.160	ppb	340.28	1.00	
93 Nb	115	1	3.489	ppb	13.89	2.00	Fail
95 Mo	115	1	0.012	ppb	39.88	1.00	
105 Pd	115	1	0.045	ppb	1.10	1.00	
107 Ag	115	1	0.014	ppb	37.50	1.00	
111 Cd	115	1	0.010	ppb	11.20	1.00	
118 Sn	115	1	0.056	ppb	17.43	10.00	
121 Sb	115	1	0.199	ppb	6.31	1.00	
137 Ba	115	1	0.013	ppb	33.03	1.00	
182 W	165	1	0.054	ppb	29.66	5.00	
195 Pt	165	1	0.010	ppb	30.10	1.00	
205 Tl	165	1	0.031	ppb	9.72	1.00	
208 Pb	165	1	0.010	ppb	28.59	1.00	
232 Th	165	1	0.178	ppb	16.31	2.00	
238 U	165	1	0.018	ppb	14.93	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	407275	0.24	423022	96.3	30 - 120	
45 Sc	1	1550774	0.74	1641233	94.5	30 - 120	
72 Ge	1	699214	1.15	731921	95.5	30 - 120	
115 In	1	2019840	1.05	2073602	97.4	30 - 120	
165 Ho	1	3180606	0.90	3248591	97.9	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\213WASH.D\213WASH.D#
Date Acquired: Oct 7 2009 03:51 am
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.097 ppb	11.90	1.30	
23 Na	6	1	50.870 ppb	0.71	65.00	
24 Mg	6	1	55.350 ppb	0.44	65.00	
27 Al	45	1	30.270 ppb	2.22	39.00	
39 K	45	1	112.400 ppb	0.72	130.00	
43 Ca	45	1	57.380 ppb	2.91	65.00	
51 V	72	1	4.900 ppb	1.99	6.50	
52 Cr	72	1	2.043 ppb	4.77	2.60	
55 Mn	72	1	1.037 ppb	2.55	1.30	
57 Fe	72	1	54.160 ppb	1.56	65.00	
59 Co	72	1	1.048 ppb	3.02	1.30	
60 Ni	72	1	2.133 ppb	6.15	2.60	
63 Cu	72	1	2.064 ppb	2.04	2.60	
66 Zn	72	1	10.520 ppb	0.86	13.00	
75 As	72	1	5.043 ppb	1.80	6.50	
78 Se	72	1	4.504 ppb	25.40	6.50	
93 Nb	115	1	43.060 ppb	0.37	52.00	
95 Mo	115	1	2.021 ppb	7.38	2.60	
105 Pd	115	1	0.820 ppb	3.33	1.30	
107 Ag	115	1	5.307 ppb	0.26	6.50	
111 Cd	115	1	1.039 ppb	12.33	1.30	
118 Sn	115	1	10.370 ppb	2.82	13.00	
121 Sb	115	1	2.050 ppb	2.17	2.60	
137 Ba	115	1	1.057 ppb	3.56	1.30	
182 W	165	1	5.047 ppb	3.42	6.50	
195 Pt	165	1	0.959 ppb	2.30	1.30	
205 Tl	165	1	1.111 ppb	1.21	1.30	
208 Pb	165	1	1.102 ppb	1.40	1.30	
232 Th	165	1	2.269 ppb	4.48	2.60	
238 U	165	1	1.109 ppb	2.01	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	408037	0.46	423022	96.5	30 - 120	
45 Sc	1	1570768	1.02	1641233	95.7	30 - 120	
72 Ge	1	700842	0.11	731921	95.8	30 - 120	
115 In	1	2037321	1.09	2073602	98.3	30 - 120	
165 Ho	1	3201010	1.35	3248591	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\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\209CALB.D\209CALB.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\AG100609.B\223_CCV.D\223_CCV.D#
Date Acquired: Oct 7 2009 04:20 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	50.05	ppb	1.65	50	100.1	90 - 110	
23 Na	6	1	4920.00	ppb	0.60	5000	98.4	90 - 110	
24 Mg	6	1	4861.00	ppb	1.81	5000	97.2	90 - 110	
27 Al	45	1	5013.00	ppb	2.11	5000	100.3	90 - 110	
39 K	45	1	5041.00	ppb	2.64	5000	100.8	90 - 110	
43 Ca	45	1	5104.00	ppb	2.18	5000	102.1	90 - 110	
51 V	72	1	48.22	ppb	0.70	50	96.4	90 - 110	
52 Cr	72	1	48.94	ppb	0.66	50	97.9	90 - 110	
55 Mn	72	1	49.89	ppb	0.93	50	99.8	90 - 110	
57 Fe	72	1	5098.00	ppb	2.02	5000	102.0	90 - 110	
59 Co	72	1	49.20	ppb	1.40	50	98.4	90 - 110	
60 Ni	72	1	50.41	ppb	0.77	50	100.8	90 - 110	
63 Cu	72	1	50.21	ppb	1.00	50	100.4	90 - 110	
66 Zn	72	1	49.80	ppb	0.76	50	99.6	90 - 110	
75 As	72	1	49.89	ppb	0.37	50	99.8	90 - 110	
78 Se	72	1	48.48	ppb	3.21	50	97.0	90 - 110	
93 Nb	115	1	90.44	ppb	1.59	100	90.4	90 - 110	
95 Mo	115	1	48.42	ppb	1.41	50	96.8	90 - 110	
105 Pd	115	1	49.40	ppb	2.02	50	98.8	90 - 110	
107 Ag	115	1	49.12	ppb	2.19	50	98.2	90 - 110	
111 Cd	115	1	49.50	ppb	0.50	50	99.0	90 - 110	
118 Sn	115	1	49.49	ppb	1.20	50	99.0	90 - 110	
121 Sb	115	1	49.04	ppb	1.13	50	98.1	90 - 110	
137 Ba	115	1	49.04	ppb	2.15	50	98.1	90 - 110	
182 W	165	1	49.69	ppb	0.67	50	99.4	90 - 110	
195 Pt	165	1	49.44	ppb	0.93	50	98.9	90 - 110	
205 Tl	165	1	51.54	ppb	1.16	50	103.1	90 - 110	
208 Pb	165	1	51.39	ppb	0.82	50	102.8	90 - 110	
232 Th	165	1	51.40	ppb	0.35	50	102.8	90 - 110	
238 U	165	1	51.00	ppb	0.76	50	102.0	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	376654	1.07	423022	89.0	30 - 120	
45 Sc	1	1415895	2.34	1641233	86.3	30 - 120	
72 Ge	1	630320	1.48	731921	86.1	30 - 120	
115 In	1	1874571	0.94	2073602	90.4	30 - 120	
165 Ho	1	3066170	0.30	3248591	94.4	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\224_CCB.D\224_CCB.D#
Date Acquired: Oct 7 2009 04:23 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.015	ppb	173.21	1.00	
23 Na	6	1	-2.471	ppb	27.82	20.00	
24 Mg	6	1	2.661	ppb	10.75	20.00	
27 Al	45	1	3.791	ppb	12.18	20.00	
39 K	45	1	-0.492	ppb	131.77	20.00	
43 Ca	45	1	5.764	ppb	31.21	20.00	
51 V	72	1	-0.013	ppb	350.04	1.00	
52 Cr	72	1	-0.005	ppb	449.07	1.00	
55 Mn	72	1	0.024	ppb	77.92	1.00	
57 Fe	72	1	0.641	ppb	8.69	20.00	
59 Co	72	1	0.011	ppb	32.71	1.00	
60 Ni	72	1	0.031	ppb	62.14	1.00	
63 Cu	72	1	-0.006	ppb	101.23	1.00	
66 Zn	72	1	4.406	ppb	4.04	10.00	
75 As	72	1	0.008	ppb	120.16	1.00	
78 Se	72	1	0.227	ppb	252.16	1.00	
93 Nb	115	1	2.617	ppb	13.95	2.00	Fail
95 Mo	115	1	-0.015	ppb	76.49	1.00	
105 Pd	115	1	0.030	ppb	15.15	1.00	
107 Ag	115	1	0.008	ppb	39.70	1.00	
111 Cd	115	1	0.018	ppb	68.00	1.00	
118 Sn	115	1	0.045	ppb	36.86	10.00	
121 Sb	115	1	0.163	ppb	6.48	1.00	
137 Ba	115	1	0.017	ppb	12.01	1.00	
182 W	165	1	0.036	ppb	5.54	5.00	
195 Pt	165	1	0.014	ppb	47.06	1.00	
205 Tl	165	1	0.026	ppb	11.30	1.00	
208 Pb	165	1	0.007	ppb	45.12	1.00	
232 Th	165	1	0.191	ppb	14.54	2.00	
238 U	165	1	0.018	ppb	11.45	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	377250	1.18	423022	89.2	30 - 120	
45 Sc	1	1418986	0.94	1641233	86.5	30 - 120	
72 Ge	1	642500	0.45	731921	87.8	30 - 120	
115 In	1	1882721	0.30	2073602	90.8	30 - 120	
165 Ho	1	3064589	1.14	3248591	94.3	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\225WASH.D\225WASH.D#
Date Acquired: Oct 7 2009 04:26 am
Operator: TEL
Sample Name: RLCV
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.004 ppb	19.10	1.30	
23 Na	6	1	47.890 ppb	1.74	65.00	
24 Mg	6	1	55.210 ppb	0.95	65.00	
27 Al	45	1	30.060 ppb	2.40	39.00	
39 K	45	1	113.900 ppb	3.96	130.00	
43 Ca	45	1	60.940 ppb	12.09	65.00	
51 V	72	1	4.918 ppb	3.56	6.50	
52 Cr	72	1	2.078 ppb	2.99	2.60	
55 Mn	72	1	1.030 ppb	4.33	1.30	
57 Fe	72	1	54.480 ppb	3.93	65.00	
59 Co	72	1	0.997 ppb	1.73	1.30	
60 Ni	72	1	2.118 ppb	2.74	2.60	
63 Cu	72	1	2.115 ppb	1.89	2.60	
66 Zn	72	1	10.410 ppb	1.25	13.00	
75 As	72	1	5.116 ppb	0.84	6.50	
78 Se	72	1	4.567 ppb	20.89	6.50	
93 Nb	115	1	40.470 ppb	0.89	52.00	
95 Mo	115	1	1.969 ppb	2.71	2.60	
105 Pd	115	1	0.908 ppb	6.94	1.30	
107 Ag	115	1	5.304 ppb	1.54	6.50	
111 Cd	115	1	1.051 ppb	1.81	1.30	
118 Sn	115	1	10.140 ppb	1.94	13.00	
121 Sb	115	1	1.988 ppb	2.46	2.60	
137 Ba	115	1	1.031 ppb	4.76	1.30	
182 W	165	1	5.111 ppb	1.50	6.50	
195 Pt	165	1	1.040 ppb	2.90	1.30	
205 Tl	165	1	1.119 ppb	1.68	1.30	
208 Pb	165	1	1.136 ppb	0.59	1.30	
232 Th	165	1	2.278 ppb	1.99	2.60	
238 U	165	1	1.123 ppb	0.85	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	377662	1.12	423022	89.3	30 - 120	
45 Sc	1	1416265	1.16	1641233	86.3	30 - 120	
72 Ge	1	648683	1.05	731921	88.6	30 - 120	
115 In	1	1903031	0.26	2073602	91.8	30 - 120	
165 Ho	1	3067706	0.39	3248591	94.4	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\226_BLK.D\226_BLK.D#
Date Acquired: Oct 7 2009 04:29 am
Operator: TEL
Sample Name: LL1J7B
Misc Info: BLANK 9278251 6020
Vial Number: 4203
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.000 ppb	0.00	2.00	
23 Na	6	1	-3.299 ppb	13.24	40.00	
24 Mg	6	1	0.650 ppb	25.27	40.00	
27 Al	45	1	-6.870 ppb	1.22	40.00	
39 K	45	1	-1.612 ppb	24.65	40.00	
43 Ca	45	1	6.753 ppb	37.30	40.00	
51 V	72	1	0.019 ppb	71.04	2.00	
52 Cr	72	1	0.200 ppb	6.63	2.00	
55 Mn	72	1	0.058 ppb	22.82	2.00	
57 Fe	72	1	3.602 ppb	7.20	40.00	
59 Co	72	1	0.001 ppb	5.00	2.00	
60 Ni	72	1	0.026 ppb	63.84	2.00	
63 Cu	72	1	0.041 ppb	52.95	2.00	
66 Zn	72	1	0.404 ppb	5.40	20.00	
75 As	72	1	-0.002 ppb	337.37	2.00	
78 Se	72	1	0.134 ppb	196.71	2.00	
93 Nb	115	1	1.591 ppb	16.47	4.00	
95 Mo	115	1	0.004 ppb	174.06	2.00	
105 Pd	115	1	0.003 ppb	141.84	2.00	
107 Ag	115	1	0.004 ppb	81.09	2.00	
111 Cd	115	1	0.001 ppb	309.08	2.00	
118 Sn	115	1	0.050 ppb	35.29	20.00	
121 Sb	115	1	0.038 ppb	0.88	2.00	
137 Ba	115	1	0.051 ppb	17.87	2.00	
182 W	165	1	0.005 ppb	71.94	10.00	
195 Pt	165	1	0.008 ppb	74.29	2.00	
205 Tl	165	1	0.009 ppb	22.18	2.00	
208 Pb	165	1	0.007 ppb	9.40	2.00	
232 Th	165	1	0.025 ppb	30.11	4.00	
238 U	165	1	0.003 ppb	13.07	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	367910	0.07	423022	87.0	30 - 120	
45 Sc	1	1387442	0.66	1641233	84.5	30 - 120	
72 Ge	1	620488	0.95	731921	84.8	30 - 120	
115 In	1	1819859	0.71	2073602	87.8	30 - 120	
165 Ho	1	2999971	0.41	3248591	92.3	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\227_LCS.D\227_LCS.D#
Date Acquired: Oct 7 2009 04:32 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL1J7C
Misc Info: LCS
Vial Number: 4204
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	38.11	3.99	40	95.3	80 - 120	
23 Na	6	1	-0.65	82.08	4000	0.0	80 - 120	
24 Mg	6	1	0.96	14.89	4000	0.0	80 - 120	
27 Al	45	1	37.17	2.49	4000	0.9	80 - 120	
39 K	45	1	-0.41	362.36	4000	0.0	80 - 120	
43 Ca	45	1	12.03	21.43	4000	0.3	80 - 120	
51 V	72	1	37.47	1.60	40	93.7	80 - 120	
52 Cr	72	1	38.98	1.62	40	97.5	80 - 120	
55 Mn	72	1	39.63	0.63	40	99.1	80 - 120	
57 Fe	72	1	213.20	0.59	4000	5.3	80 - 120	
59 Co	72	1	39.48	0.30	40	98.7	80 - 120	
60 Ni	72	1	41.00	1.49	40	102.5	80 - 120	
63 Cu	72	1	41.16	1.40	40	102.9	80 - 120	
66 Zn	72	1	104.00	1.42	40	260.0	80 - 120	
75 As	72	1	38.19	1.20	40	95.5	80 - 120	
78 Se	72	1	37.52	1.87	40	93.8	80 - 120	
93 Nb	115	1	0.82	26.11	80	1.0	80 - 120	
95 Mo	115	1	38.34	1.13	40	95.9	80 - 120	
105 Pd	115	1	0.00	238.15	40	0.0	80 - 120	
107 Ag	115	1	40.10	2.13	40	100.3	80 - 120	
111 Cd	115	1	38.13	2.17	40	95.3	80 - 120	
118 Sn	115	1	0.08	33.59	40	0.2	80 - 120	
121 Sb	115	1	38.66	0.28	40	96.7	80 - 120	
137 Ba	115	1	39.71	1.12	40	99.3	80 - 120	
182 W	165	1	0.02	96.12	40	0.0	80 - 120	
195 Pt	165	1	0.03	43.86	40	0.1	80 - 120	
205 Tl	165	1	41.42	0.54	40	103.6	80 - 120	
208 Pb	165	1	42.39	0.53	40	106.0	80 - 120	
232 Th	165	1	39.52	2.93	40	98.8	80 - 120	
238 U	165	1	41.84	0.75	40	104.6	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	359716	0.97	423022	85.0	30 - 120	
45 Sc	1	1352539	0.27	1641233	82.4	30 - 120	
72 Ge	1	604709	1.01	731921	82.6	30 - 120	
115 In	1	1808840	0.86	2073602	87.2	30 - 120	
165 Ho	1	2953051	0.12	3248591	90.9	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\228AREF.D\228AREF.D#
Date Acquired: Oct 7 2009 04:35 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FG
Misc Info: D9J030137
Vial Number: 4205
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
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	0.02	0.02	ppb	173.21	3600	
23 Na	6	1	1.84	1.84	ppb	33.82	100000	
24 Mg	6	1	3.83	3.83	ppb	3.13	100000	
27 Al	45	1	0.29	0.29	ppb	150.94	100000	
39 K	45	1	4.65	4.65	ppb	27.94	100000	
43 Ca	45	1	27.51	27.51	ppb	13.66	100000	
51 V	72	1	0.00	0.00	ppb	265.97	3600	
52 Cr	72	1	0.22	0.22	ppb	19.09	3600	
55 Mn	72	1	1.70	1.70	ppb	2.14	18000	
57 Fe	72	1	67.88	67.88	ppb	2.09	100000	
59 Co	72	1	0.01	0.01	ppb	44.44	3600	
60 Ni	72	1	0.13	0.13	ppb	14.90	3600	
63 Cu	72	1	0.38	0.38	ppb	15.11	3600	
66 Zn	72	1	1.94	1.94	ppb	5.92	3600	
75 As	72	1	0.03	0.03	ppb	37.91	3600	
78 Se	72	1	0.01	0.01	ppb	3961.70	3600	
93 Nb	115	1	0.44	0.44	ppb	25.92	2000	
95 Mo	115	1	0.30	0.30	ppb	3.05	3600	
105 Pd	115	1	0.00	0.00	ppb	155.00	1000	
107 Ag	115	1	0.00	0.00	ppb	85.31	3600	
111 Cd	115	1	0.00	0.00	ppb	414.31	3600	
118 Sn	115	1	0.01	0.01	ppb	52.93	3600	
121 Sb	115	1	0.04	0.04	ppb	15.31	3600	
137 Ba	115	1	0.07	0.07	ppb	31.25	3600	
182 W	165	1	0.00	0.00	ppb	231.29	1000	
195 Pt	165	1	0.00	0.00	ppb	330.84	1000	
205 Tl	165	1	0.02	0.02	ppb	35.03	3600	
208 Pb	165	1	0.03	0.03	ppb	7.26	3600	
232 Th	165	1	0.59	0.59	ppb	30.12	1000	
238 U	165	1	0.01	0.01	ppb	19.19	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	361184	0.22	423022	85.4	30 - 120	
45 Sc	1	1344143	1.40	1641233	81.9	30 - 120	
72 Ge	1	609372	0.89	731921	83.3	30 - 120	
115 In	1	1814554	1.48	2073602	87.5	30 - 120	
165 Ho	1	2961097	0.32	3248591	91.2	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\229SDIL.D\229SDIL.D#
Date Acquired: Oct 7 2009 04:38 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGP5
Misc Info: SERIAL DILUTION
Vial Number: 4206
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG100609.B\228AREF.D\228AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.00	ppb	0.00	0.00	0.0	90 - 110	
23 Na	6	1	-4.50	ppb	4.16	0.37	-1223.8	90 - 110	
24 Mg	6	1	8.19	ppb	0.32	0.77	1068.8	90 - 110	
27 Al	45	1	9.03	ppb	5.23	0.06	15482.0	90 - 110	
39 K	45	1	0.85	ppb	71.09	0.93	91.9	90 - 110	
43 Ca	45	1	7.83	ppb	52.20	5.50	142.2	90 - 110	
51 V	72	1	0.01	ppb	332.03	0.00	1567.7	90 - 110	
52 Cr	72	1	0.24	ppb	5.92	0.04	543.1	90 - 110	
55 Mn	72	1	0.33	ppb	4.00	0.34	97.6	90 - 110	
57 Fe	72	1	8.98	ppb	8.03	13.58	66.2	90 - 110	
59 Co	72	1	0.00	ppb	48.74	0.00	178.4	90 - 110	
60 Ni	72	1	0.15	ppb	22.43	0.03	590.2	90 - 110	
63 Cu	72	1	0.07	ppb	21.77	0.08	99.2	90 - 110	
66 Zn	72	1	0.58	ppb	4.04	0.39	150.6	90 - 110	
75 As	72	1	0.01	ppb	173.59	0.01	142.5	90 - 110	
78 Se	72	1	-0.48	ppb	82.90	0.00	-17489.2	90 - 110	
93 Nb	115	1	0.22	ppb	47.06	0.09	250.6	90 - 110	
95 Mo	115	1	0.03	ppb	46.64	0.06	49.4	90 - 110	
105 Pd	115	1	0.00	ppb	208.47	0.00	478.0	90 - 110	
107 Ag	115	1	0.00	ppb	78.23	0.00	-152.9	90 - 110	
111 Cd	115	1	0.00	ppb	125.81	0.00	771.1	90 - 110	
118 Sn	115	1	0.00	ppb	553.17	0.00	160.5	90 - 110	
121 Sb	115	1	0.03	ppb	29.72	0.01	366.5	90 - 110	
137 Ba	115	1	0.01	ppb	5.18	0.01	81.5	90 - 110	
182 W	165	1	0.01	ppb	120.42	0.00	-2618.8	90 - 110	
195 Pt	165	1	0.02	ppb	18.24	0.00	-17135.2	90 - 110	
205 Tl	165	1	0.00	ppb	35.05	0.00	47.2	90 - 110	
208 Pb	165	1	0.01	ppb	5.93	0.01	269.5	90 - 110	
232 Th	165	1	0.06	ppb	15.80	0.12	48.7	90 - 110	
238 U	165	1	0.00	ppb	12.77	0.00	120.2	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	371532	1.14	423022	87.8	30 - 120	
45 Sc	1	1407592	1.40	1641233	85.8	30 - 120	
72 Ge	1	631964	0.93	731921	86.3	30 - 120	
115 In	1	1860903	0.82	2073602	89.7	30 - 120	
165 Ho	1	3017647	0.19	3248591	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\AG100609.B\209CALB.D\209CALB.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: 10/07/09 11:22:50

Department: 090 (Metals) | Source: Spreadsheet

Sample: **LL0FGP5** | Serial Dilution: **5.00** | Sample Dilution: **1.00**

Instrument: **Agilent7500** | Channel 272
File: AG100609 # 229 | Method 6020_
Acquired: 10/07/2009 04:38:00 | ICPMS_024 | Matrix: AQUEOUS
Calibrated: 10/07/2009 03:39:00 | Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9		0	0.01519	100		*	
7440-62-2	Vanadium	51	189	0.06260	0.00399	1470		*	
7440-47-3	Chromium	52	4791	1.2045	0.22180	443		*	
7439-96-5	Manganese	55	3731	1.6605	1.7020	2.44		*	
7440-48-4	Cobalt	59	100	0.01943	0.01089	78.4		*	
7440-02-0	Nickel	60	437	0.76200	0.12910	490		*	
7440-50-8	Copper	63	843	0.37225	0.37510	0.760		*	
7440-66-6	Zinc	66	1308	2.9215	1.9400	50.6		*	
7440-38-2	Arsenic	75	49	0.04297	0.03015	42.5	0.21	NC	☑
7782-49-2	Selenium	78	503	-2.4205	0.01384	17600	0.70	NC	☑
7439-98-7	Molybdenum	95	257	0.14935	0.30220	50.6		*	
7440-22-4	Silver	107	20	-0.00756	0.00494	253		*	
7440-43-9	Cadmium	111	7	0.00813	0.00105	671		*	
7440-31-5	Tin	118	290	0.01232	0.00768	60.5		*	
7440-36-0	Antimony	121	218	0.15860	0.04328	266		*	
7440-39-3	Barium	137	64	0.05705	0.06998	18.5		*	
7440-28-0	Thallium	205	82	0.00971	0.02058	52.8		*	
7439-92-1	Lead	208	692	0.07350	0.02727	170		*	
7440-61-1	Uranium	238	92	0.01273	0.01059	20.2		*	
7440-23-5	Sodium	23	146607	-22.505	1.8390	1320		*	
7439-95-4	Magnesium	24	18936	40.935	3.8300	969		*	
7429-90-5	Aluminum	27	33744	45.130	0.29150	15400		*	
7440-09-7	Potassium	39	230436	4.2735	4.6500	8.10		*	
7440-70-2	Calcium	43	70	39.125	27.510	42.2		*	
7439-89-6	Iron	57	2677	44.905	67.880	33.8		*	
7440-03-1	Niobium	93	8930	1.1135	0.44440	151		*	
7440-05-3	Palladium	105	13	0.00956	0.00200	378		*	
7440-33-7	Tungsten	182	683	0.05950	-0.00227			*	
7440-06-4	Platinum	195	227	0.12130	-0.00071			*	
7440-29-1	Thorium	232	1664	0.28865	0.59240	51.3		*	
7439-93-2	Lithium	6			0			*	
7440-20-2	Scandium	45			0			*	
7440-74-6	Indium	115			0			*	
7440-56-4	Germanium	72			0			*	
7440-60-0	Holmium	165			0			*	

*** Analyte not requested for this batch, no MDL**

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: LRD Date: 10/7/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\230PDS.D\230PDS.D#
Date Acquired: Oct 7 2009 04:41 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGZ
Misc Info: POST DIGESTION SPIKE
Vial Number: 4207
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	186.90	0.02	ppb	0.66	200	93.4	75 - 125	
23 Na	6	1	0.60	1.84	ppb	245.63	200000	0.0	75 - 125	
24 Mg	6	1	4.15	3.83	ppb	2.60	200000	0.0	75 - 125	
27 Al	45	1	-3.76	0.29	ppb	2.70	200000	0.0	75 - 125	
39 K	45	1	3.65	4.65	ppb	25.84	200000	0.0	75 - 125	
43 Ca	45	1	29.37	27.51	ppb	8.53	200000	0.0	75 - 125	
51 V	72	1	184.10	0.00	ppb	0.33	200	92.0	75 - 125	
52 Cr	72	1	196.00	0.22	ppb	0.30	200	97.9	75 - 125	
55 Mn	72	1	197.10	1.70	ppb	0.60	200	97.7	75 - 125	
57 Fe	72	1	37.36	67.88	ppb	1.65	200000	0.0	75 - 125	
59 Co	72	1	192.70	0.01	ppb	0.75	200	96.3	75 - 125	
60 Ni	72	1	197.50	0.13	ppb	1.18	200	98.7	75 - 125	
63 Cu	72	1	201.10	0.38	ppb	0.44	200	100.4	75 - 125	
66 Zn	72	1	190.80	1.94	ppb	0.24	200	94.5	75 - 125	
75 As	72	1	187.00	0.03	ppb	1.05	200	93.5	75 - 125	
78 Se	72	1	184.20	0.01	ppb	1.10	200	92.1	75 - 125	
93 Nb	115	1	0.20	0.44	ppb	52.64	400	0.1	75 - 125	
95 Mo	115	1	188.50	0.30	ppb	0.55	200	94.1	75 - 125	
105 Pd	115	1	0.01	0.00	ppb	54.98	200	0.0	75 - 125	
107 Ag	115	1	48.31	0.00	ppb	0.81	50	96.6	75 - 125	
111 Cd	115	1	188.00	0.00	ppb	1.29	200	94.0	75 - 125	
118 Sn	115	1	173.60	0.01	ppb	0.61	200	86.8	75 - 125	
121 Sb	115	1	186.60	0.04	ppb	0.64	200	93.3	75 - 125	
137 Ba	115	1	192.20	0.07	ppb	0.60	200	96.1	75 - 125	
182 W	165	1	0.02	0.00	ppb	61.53	200	0.0	75 - 125	
195 Pt	165	1	0.00	0.00	ppb	270.72	200	0.0	75 - 125	
205 Tl	165	1	198.20	0.02	ppb	1.45	200	99.1	75 - 125	
208 Pb	165	1	199.50	0.03	ppb	0.70	200	99.7	75 - 125	
232 Th	165	1	0.06	0.59	ppb	14.38	200	0.0	75 - 125	
238 U	165	1	197.00	0.01	ppb	0.88	200	98.5	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	349771	1.44	423022	82.7	30 - 120	
45 Sc	1	1316747	0.37	1641233	80.2	30 - 120	
72 Ge	1	586567	0.34	731921	80.1	30 - 120	
115 In	1	1778249	0.67	2073602	85.8	30 - 120	
165 Ho	1	2923597	1.07	3248591	90.0	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\AG100609.B\209CALB.D\209CALB.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: 10/07/09 11:22:54

Department: 090 (Metals) | Source: Spreadsheet

Sample: **LL0FGZ** | Spike Dilution: **1.00** | Sample Dilution: **1.00**

Instrument: **Agilent7500** | Channel 272
File: AG100609 # 230 | Method 6020_
Acquired: 10/07/2009 04:41:00 | ICPMS_024 | Matrix: AQUEOUS
Calibrated: 10/07/2009 03:39:00 | Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	79333	186.90	0.01519	93.4	200		☑
7440-62-2	Vanadium	51	1519670	184.10	0.00399	92.0	200		☑
7440-47-3	Chromium	52	1586830	196.00	0.22180	97.9	200		☑
7439-96-5	Manganese	55	1820290	197.10	1.7020	97.7	200		☑
7440-48-4	Cobalt	59	1950880	192.70	0.01089	96.3	200		☑
7440-02-0	Nickel	60	442291	197.50	0.12910	98.7	200		☑
7440-50-8	Copper	63	1061180	201.10	0.37510	100	200		☑
7440-66-6	Zinc	66	211696	190.80	1.9400	94.4	200		☑
7440-38-2	Arsenic	75	182056	187.00	0.03015	93.5	200		☑
7782-49-2	Selenium	78	33281	184.20	0.01384	92.1	200		☑
7439-98-7	Molybdenum	95	538113	188.50	0.30220	94.1	200		☑
7440-22-4	Silver	107	394322	48.310	0.00494	96.6	50.0		☑
7440-43-9	Cadmium	111	297057	188.00	0.00105	94.0	200		☑
7440-31-5	Tin	118	790198	173.60	0.00768	86.8	200		☑
7440-36-0	Antimony	121	937349	186.60	0.04328	93.3	200		☑
7440-39-3	Barium	137	443753	192.20	0.06998	96.1	200		☑
7440-28-0	Thallium	205	3329850	198.20	0.02058	99.1	200		☑
7439-92-1	Lead	208	4488170	199.50	0.02727	99.7	200		☑
7440-61-1	Uranium	238	4904110	197.00	0.01059	98.5	200		☑
7440-23-5	Sodium	23	153746	0.60090	1.8390				
7439-95-4	Magnesium	24	10054	4.1490	3.8300				
7429-90-5	Aluminum	27	9253	-3.7580	0.29150				
7440-09-7	Potassium	39	224147	3.6520	4.6500				
7440-70-2	Calcium	43	230	29.370	27.510				
7439-89-6	Iron	57	8439	37.360	67.880				
7440-03-1	Niobium	93	8259	0.20440	0.44440				
7440-05-3	Palladium	105	33	0.00760	0.00200				
7440-33-7	Tungsten	182	703	0.01757	-0.00227				
7440-06-4	Platinum	195	97	-0.00046	-0.00071				
7440-29-1	Thorium	232	1647	0.05918	0.59240				
7439-93-2	Lithium	6			0				
7440-20-2	Scandium	45			0				
7440-74-6	Indium	115			0				
7440-56-4	Germanium	72			0				
7440-60-0	Holmium	165			0				

Reviewed by: LRD Date: 10/7/09

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\231_MS.D\231_MS.D#
Date Acquired: Oct 7 2009 04:44 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGS
Misc Info: MATRIX SPIKE
Vial Number: 4208
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	38.33	0.02	ppb	2.04	40	95.8	50 - 150	
23 Na	6	1	-0.42	1.84	ppb	131.39	4000	0.0	50 - 150	
24 Mg	6	1	4.87	3.83	ppb	2.52	4000	0.1	50 - 150	
27 Al	45	1	39.39	0.29	ppb	6.88	4000	1.0	50 - 150	
39 K	45	1	1.86	4.65	ppb	91.82	4000	0.0	50 - 150	
43 Ca	45	1	19.20	27.51	ppb	11.48	4000	0.5	50 - 150	
51 V	72	1	38.17	0.00	ppb	1.09	40	95.4	50 - 150	
52 Cr	72	1	39.25	0.22	ppb	0.71	40	97.6	50 - 150	
55 Mn	72	1	40.46	1.70	ppb	0.58	40	97.0	50 - 150	
57 Fe	72	1	3.07	67.88	ppb	13.54	4000	0.1	50 - 150	
59 Co	72	1	39.74	0.01	ppb	1.17	40	99.3	50 - 150	
60 Ni	72	1	40.70	0.13	ppb	0.98	40	101.4	50 - 150	
63 Cu	72	1	41.84	0.38	ppb	1.41	40	103.6	50 - 150	
66 Zn	72	1	40.28	1.94	ppb	0.60	40	96.0	50 - 150	
75 As	72	1	38.73	0.03	ppb	0.85	40	96.8	50 - 150	
78 Se	72	1	40.14	0.01	ppb	2.58	40	100.3	50 - 150	
93 Nb	115	1	0.05	0.44	ppb	173.90	80	0.1	50 - 150	
95 Mo	115	1	37.96	0.30	ppb	0.30	40	94.2	50 - 150	
105 Pd	115	1	0.00	0.00	ppb	53.42	40	0.0	50 - 150	
107 Ag	115	1	39.36	0.00	ppb	0.38	40	98.4	50 - 150	
111 Cd	115	1	38.60	0.00	ppb	0.56	40	96.5	50 - 150	
118 Sn	115	1	0.26	0.01	ppb	5.44	40	0.7	50 - 150	
121 Sb	115	1	38.93	0.04	ppb	1.22	40	97.2	50 - 150	
137 Ba	115	1	39.34	0.07	ppb	1.07	40	98.2	50 - 150	
182 W	165	1	0.01	0.00	ppb	49.62	40	0.0	50 - 150	
195 Pt	165	1	-0.01	0.00	ppb	47.28	40	0.0	50 - 150	
205 Tl	165	1	42.19	0.02	ppb	1.15	40	105.4	50 - 150	
208 Pb	165	1	42.81	0.03	ppb	1.04	40	107.0	50 - 150	
232 Th	165	1	39.48	0.59	ppb	3.36	40	97.3	50 - 150	
238 U	165	1	42.30	0.01	ppb	0.74	40	105.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	351691	0.83	423022	83.1	30 - 120	
45 Sc	1	1327805	1.09	1641233	80.9	30 - 120	
72 Ge	1	590119	0.56	731921	80.6	30 - 120	
115 In	1	1792931	0.71	2073602	86.5	30 - 120	
165 Ho	1	2909343	0.59	3248591	89.6	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\AG100609.B\209CALB.D\209CALB.D#

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

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\232_MSD.D\232_MSD.D#
Date Acquired: Oct 7 2009 04:47 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FGD
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4209
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG100609.B\231_MS.D\231_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	36.99	ppb	3.53	38.33	3.56	20	
23 Na	6	1	0.27	ppb	167.38	-0.42	-926.54	20	
24 Mg	6	1	5.62	ppb	3.45	4.87	14.19	20	
27 Al	45	1	35.65	ppb	1.77	39.39	9.97	20	
39 K	45	1	2.21	ppb	20.61	1.86	17.22	20	
43 Ca	45	1	21.67	ppb	32.38	19.20	12.09	20	
51 V	72	1	36.95	ppb	2.31	38.17	3.25	20	
52 Cr	72	1	37.85	ppb	1.75	39.25	3.63	20	
55 Mn	72	1	39.28	ppb	0.22	40.46	2.96	20	
57 Fe	72	1	4.29	ppb	22.64	3.07	33.34	20	
59 Co	72	1	38.57	ppb	0.46	39.74	2.99	20	
60 Ni	72	1	39.40	ppb	2.25	40.70	3.25	20	
63 Cu	72	1	40.19	ppb	1.15	41.84	4.02	20	
66 Zn	72	1	38.89	ppb	0.88	40.28	3.51	20	
75 As	72	1	37.21	ppb	1.37	38.73	4.00	20	
78 Se	72	1	36.40	ppb	2.10	40.14	9.77	20	
93 Nb	115	1	-0.01	ppb	1288.50	0.05	247.60	20	
95 Mo	115	1	36.92	ppb	1.80	37.96	2.78	20	
105 Pd	115	1	0.01	ppb	42.25	0.00	76.84	20	
107 Ag	115	1	37.91	ppb	1.42	39.36	3.75	20	
111 Cd	115	1	36.56	ppb	1.84	38.60	5.43	20	
118 Sn	115	1	0.12	ppb	19.48	0.26	76.07	20	
121 Sb	115	1	37.26	ppb	1.59	38.93	4.38	20	
137 Ba	115	1	37.69	ppb	1.38	39.34	4.28	20	
182 W	165	1	0.01	ppb	252.69	0.01	65.95	20	
195 Pt	165	1	0.00	ppb	273.07	-0.01	-365.95	20	
205 Tl	165	1	40.09	ppb	1.43	42.19	5.10	20	
208 Pb	165	1	40.68	ppb	1.11	42.81	5.10	20	
232 Th	165	1	37.92	ppb	2.47	39.48	4.03	20	
238 U	165	1	40.20	ppb	1.18	42.30	5.09	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	349877	1.45	423022	82.7	30 - 120	
45 Sc	1	1309180	0.42	1641233	79.8	30 - 120	
72 Ge	1	581950	1.17	731921	79.5	30 - 120	
115 In	1	1779855	1.06	2073602	85.8	30 - 120	
165 Ho	1	2929664	0.50	3248591	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\233SMPL.D\233SMPL.D#
Date Acquired:	Oct 7 2009 04:50 am
Acq. Method:	6020isis.M
Operator:	TEL
Sample Name:	LL0FJ
Misc Info:	D9J030138
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update:	Oct 07 2009 03:43 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.06	0.06	ppb	49.61	3600	
23 Na	6	1	----	--------	ppb	--------	100000	>LDR
24 Mg	6	1	102,600.00	102600.00	ppb	1.37	100000	>LDR
27 Al	45	1	135.60	135.60	ppb	2.16	100000	
39 K	45	1	19,460.00	19460.00	ppb	0.74	100000	
43 Ca	45	1	162,600.00	162600.00	ppb	0.78	100000	>LDR
51 V	72	1	-37.93	-37.93	ppb	37.44	3600	
52 Cr	72	1	2,517.00	2517.00	ppb	1.75	3600	
55 Mn	72	1	11.72	11.72	ppb	1.05	18000	
57 Fe	72	1	874.40	874.40	ppb	0.98	100000	
59 Co	72	1	0.39	0.39	ppb	1.12	3600	
60 Ni	72	1	5.24	5.24	ppb	1.18	3600	
63 Cu	72	1	11.64	11.64	ppb	1.44	3600	
66 Zn	72	1	1.81	1.81	ppb	2.57	3600	
75 As	72	1	105.20	105.20	ppb	0.28	3600	
78 Se	72	1	4.47	4.47	ppb	9.92	3600	
93 Nb	115	1	0.16	0.16	ppb	45.74	2000	
95 Mo	115	1	30.67	30.67	ppb	1.10	3600	
105 Pd	115	1	4.81	4.81	ppb	4.27	1000	
107 Ag	115	1	0.04	0.04	ppb	13.20	3600	
111 Cd	115	1	0.07	0.07	ppb	16.08	3600	
118 Sn	115	1	0.13	0.13	ppb	49.83	3600	
121 Sb	115	1	0.24	0.24	ppb	14.10	3600	
137 Ba	115	1	27.94	27.94	ppb	1.22	3600	
182 W	165	1	0.59	0.59	ppb	1.90	1000	
195 Pt	165	1	0.05	0.05	ppb	14.62	1000	
205 Tl	165	1	0.09	0.09	ppb	19.46	3600	
208 Pb	165	1	0.24	0.24	ppb	8.11	3600	
232 Th	165	1	0.77	0.77	ppb	39.40	1000	
238 U	165	1	9.52	9.52	ppb	1.35	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	323500	0.22	423022	76.5	30 - 120	
45 Sc	1	1343578	2.25	1641233	81.9	30 - 120	
72 Ge	1	519588	0.57	731921	71.0	30 - 120	
115 In	1	1529676	1.09	2073602	73.8	30 - 120	
165 Ho	1	2557766	1.10	3248591	78.7	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\AG100609.B\209CALB.D\209CALB.D#

3 :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\AG100609.B\234SMPL.D\234SMPL.D#
Date Acquired: Oct 7 2009 04:53 am
Acq. Method: 6020isis.M
Operator: TEL
Sample Name: LL0FK
Misc Info: D9J030138
Vial Number: 4211
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal. Update: Oct 07 2009 03:43 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.04	0.04	ppb	69.72	3600	
23 Na	6	1	----	--------	ppb	--------	100000	>LDR
24 Mg	6	1	108,400.00	108400.00	ppb	1.48	100000	>LDR
27 Al	45	1	127.80	127.80	ppb	4.54	100000	
39 K	45	1	19,970.00	19970.00	ppb	1.13	100000	
43 Ca	45	1	163,900.00	163900.00	ppb	1.92	100000	>LDR
51 V	72	1	-36.91	-36.91	ppb	17.67	3600	
52 Cr	72	1	2,550.00	2550.00	ppb	0.02	3600	
55 Mn	72	1	11.50	11.50	ppb	0.74	18000	
57 Fe	72	1	856.90	856.90	ppb	1.29	100000	
59 Co	72	1	0.39	0.39	ppb	3.85	3600	
60 Ni	72	1	2.65	2.65	ppb	3.02	3600	
63 Cu	72	1	0.91	0.91	ppb	4.43	3600	
66 Zn	72	1	2.14	2.14	ppb	2.28	3600	
75 As	72	1	106.50	106.50	ppb	0.34	3600	
78 Se	72	1	3.93	3.93	ppb	9.07	3600	
93 Nb	115	1	0.09	0.09	ppb	80.11	2000	
95 Mo	115	1	29.75	29.75	ppb	0.79	3600	
105 Pd	115	1	4.78	4.78	ppb	1.61	1000	
107 Ag	115	1	0.03	0.03	ppb	15.31	3600	
111 Cd	115	1	0.07	0.07	ppb	14.97	3600	
118 Sn	115	1	0.09	0.09	ppb	4.99	3600	
121 Sb	115	1	0.22	0.22	ppb	2.88	3600	
137 Ba	115	1	28.92	28.92	ppb	0.74	3600	
182 W	165	1	0.61	0.61	ppb	2.88	1000	
195 Pt	165	1	0.05	0.05	ppb	16.12	1000	
205 Tl	165	1	0.06	0.06	ppb	5.83	3600	
208 Pb	165	1	0.22	0.22	ppb	1.69	3600	
232 Th	165	1	0.14	0.14	ppb	8.84	1000	
238 U	165	1	9.68	9.68	ppb	0.94	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	319222	0.66	423022	75.5	30 - 120	
45 Sc	1	1372017	1.58	1641233	83.6	30 - 120	
72 Ge	1	532619	0.29	731921	72.8	30 - 120	
115 In	1	1535813	0.60	2073602	74.1	30 - 120	
165 Ho	1	2531369	0.13	3248591	77.9	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\AG100609.B\209CALB.D\209CALB.D#

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

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG100609.B\235_CCV.D\235_CCV.D#
Date Acquired: Oct 7 2009 04:56 am
Operator: TEL
Sample Name: CCV
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	48.39	ppb	2.79	50	96.8	90 - 110	
23 Na	6	1	5162.00	ppb	0.81	5000	103.2	90 - 110	
24 Mg	6	1	4893.00	ppb	2.04	5000	97.9	90 - 110	
27 Al	45	1	4970.00	ppb	1.07	5000	99.4	90 - 110	
39 K	45	1	5042.00	ppb	1.15	5000	100.8	90 - 110	
43 Ca	45	1	5073.00	ppb	1.16	5000	101.5	90 - 110	
51 V	72	1	47.79	ppb	0.16	50	95.6	90 - 110	
52 Cr	72	1	49.28	ppb	0.72	50	98.6	90 - 110	
55 Mn	72	1	49.35	ppb	0.37	50	98.7	90 - 110	
57 Fe	72	1	5107.00	ppb	1.29	5000	102.1	90 - 110	
59 Co	72	1	49.18	ppb	0.42	50	98.4	90 - 110	
60 Ni	72	1	50.43	ppb	0.86	50	100.9	90 - 110	
63 Cu	72	1	50.71	ppb	0.62	50	101.4	90 - 110	
66 Zn	72	1	50.25	ppb	1.19	50	100.5	90 - 110	
75 As	72	1	49.89	ppb	0.82	50	99.8	90 - 110	
78 Se	72	1	49.78	ppb	2.31	50	99.6	90 - 110	
93 Nb	115	1	90.46	ppb	0.69	100	90.5	90 - 110	
95 Mo	115	1	48.47	ppb	0.79	50	96.9	90 - 110	
105 Pd	115	1	49.96	ppb	1.94	50	99.9	90 - 110	
107 Ag	115	1	49.53	ppb	0.81	50	99.1	90 - 110	
111 Cd	115	1	49.24	ppb	0.61	50	98.5	90 - 110	
118 Sn	115	1	49.19	ppb	2.00	50	98.4	90 - 110	
121 Sb	115	1	48.76	ppb	0.67	50	97.5	90 - 110	
137 Ba	115	1	49.44	ppb	1.27	50	98.9	90 - 110	
182 W	165	1	49.62	ppb	1.05	50	99.2	90 - 110	
195 Pt	165	1	49.43	ppb	1.48	50	98.9	90 - 110	
205 Tl	165	1	51.20	ppb	1.18	50	102.4	90 - 110	
208 Pb	165	1	50.85	ppb	1.01	50	101.7	90 - 110	
232 Th	165	1	50.77	ppb	0.90	50	101.5	90 - 110	
238 U	165	1	50.96	ppb	0.44	50	101.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	375980	1.93	423022	88.9	30 - 120	
45 Sc	1	1434556	0.53	1641233	87.4	30 - 120	
72 Ge	1	640778	1.52	731921	87.5	30 - 120	
115 In	1	1906943	0.93	2073602	92.0	30 - 120	
165 Ho	1	3106400	0.67	3248591	95.6	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\AG100609.B\209CALB.D\209CALB.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\AG100609.B\236_CCB.D\236_CCB.D#
Date Acquired: Oct 7 2009 04:59 am
Operator: TEL
Sample Name: CCB
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File: C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update: Oct 07 2009 03:43 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	173.25	1.00	
23 Na	6	1	135.100	ppb	4.00	20.00	Fail
24 Mg	6	1	4.672	ppb	5.46	20.00	
27 Al	45	1	6.553	ppb	9.53	20.00	
39 K	45	1	8.631	ppb	9.88	20.00	
43 Ca	45	1	9.039	ppb	52.17	20.00	
51 V	72	1	-0.056	ppb	60.17	1.00	
52 Cr	72	1	0.121	ppb	11.47	1.00	
55 Mn	72	1	0.018	ppb	63.53	1.00	
57 Fe	72	1	0.945	ppb	34.28	20.00	
59 Co	72	1	0.014	ppb	33.07	1.00	
60 Ni	72	1	0.010	ppb	164.78	1.00	
63 Cu	72	1	-0.004	ppb	77.84	1.00	
66 Zn	72	1	3.961	ppb	1.97	10.00	
75 As	72	1	0.031	ppb	35.04	1.00	
78 Se	72	1	-0.215	ppb	298.42	1.00	
93 Nb	115	1	2.578	ppb	13.03	2.00	Fail
95 Mo	115	1	-0.010	ppb	114.70	1.00	
105 Pd	115	1	0.023	ppb	66.28	1.00	
107 Ag	115	1	0.020	ppb	32.89	1.00	
111 Cd	115	1	0.015	ppb	56.82	1.00	
118 Sn	115	1	0.045	ppb	51.54	10.00	
121 Sb	115	1	0.148	ppb	9.78	1.00	
137 Ba	115	1	0.016	ppb	23.45	1.00	
182 W	165	1	0.049	ppb	20.02	5.00	
195 Pt	165	1	0.014	ppb	67.70	1.00	
205 Tl	165	1	0.033	ppb	12.15	1.00	
208 Pb	165	1	0.012	ppb	16.90	1.00	
232 Th	165	1	0.185	ppb	15.86	2.00	
238 U	165	1	0.018	ppb	8.31	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	380623	0.45	423022	90.0	30 - 120	
45 Sc	1	1471588	0.86	1641233	89.7	30 - 120	
72 Ge	1	672097	0.38	731921	91.8	30 - 120	
115 In	1	1972340	0.82	2073602	95.1	30 - 120	
165 Ho	1	3168178	0.86	3248591	97.5	30 - 120	

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Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\209CALB.D\209CALB.D#

2 :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\AG100609.B\237WASH.D\237WASH.D#
Date Acquired:	Oct 7 2009 05:02 am
Operator:	TEL
Sample Name:	RLCV
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\6020isis.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020isis.C
Last Cal Update:	Oct 07 2009 03:43 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.050 ppb	3.41	1.30	
23 Na	6	1	135.200 ppb	0.25	65.00	
24 Mg	6	1	57.000 ppb	0.25	65.00	
27 Al	45	1	30.060 ppb	3.42	39.00	
39 K	45	1	116.400 ppb	1.01	130.00	
43 Ca	45	1	66.140 ppb	14.35	65.00	
51 V	72	1	4.872 ppb	1.80	6.50	
52 Cr	72	1	2.064 ppb	1.56	2.60	
55 Mn	72	1	1.019 ppb	2.64	1.30	
57 Fe	72	1	53.820 ppb	2.08	65.00	
59 Co	72	1	1.055 ppb	1.52	1.30	
60 Ni	72	1	2.155 ppb	4.39	2.60	
63 Cu	72	1	2.117 ppb	1.44	2.60	
66 Zn	72	1	10.440 ppb	0.44	13.00	
75 As	72	1	5.015 ppb	1.96	6.50	
78 Se	72	1	5.160 ppb	1.37	6.50	
93 Nb	115	1	40.580 ppb	0.88	52.00	
95 Mo	115	1	1.943 ppb	1.53	2.60	
105 Pd	115	1	0.868 ppb	5.10	1.30	
107 Ag	115	1	5.354 ppb	0.99	6.50	
111 Cd	115	1	1.027 ppb	3.31	1.30	
118 Sn	115	1	10.230 ppb	1.01	13.00	
121 Sb	115	1	1.981 ppb	0.51	2.60	
137 Ba	115	1	1.018 ppb	5.28	1.30	
182 W	165	1	5.093 ppb	1.11	6.50	
195 Pt	165	1	0.975 ppb	2.60	1.30	
205 Tl	165	1	1.125 ppb	1.05	1.30	
208 Pb	165	1	1.120 ppb	0.89	1.30	
232 Th	165	1	2.284 ppb	2.55	2.60	
238 U	165	1	1.123 ppb	1.75	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	384516	1.41	423022	90.9	30 - 120	
45 Sc	1	1494946	1.16	1641233	91.1	30 - 120	
72 Ge	1	673197	0.97	731921	92.0	30 - 120	
115 In	1	1989833	0.55	2073602	96.0	30 - 120	
165 Ho	1	3172078	0.38	3248591	97.6	30 - 120	

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Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG100609.B\209CALB.D\209CALB.D#

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