CT LABORATORIES

delivering more than data from your environmental analyses

ANALYTICAL RESULTS FOR:

AL EASTERDAY
ECC
33 POST ROAD WEST
MARLBOROUGH, MA 01752

PROJECT SITE:	RVAAP - IDW Ravenna, OH
DOD CONTRACT #:	
PROJECT #:	
SDG:	99335
PREPARED:	September 6, 2013 (revised 9-24-13)
DOCUMENT PAGES:	2361

The data contained in the following report have been reviewed by the appropriate CT Laboratories LLC's staff members. In addition, CT Laboratories LLC certifies that to the best of our knowledge that the analyses reported herein are true, complete and correct within the limits of the methods employed and that they follow the applicable requirements as specified by the project plan, state-specific, NELAC or DOD QSM requirements. The estimated uncertainty of measurement is only available upon request. The reported results relate only to the tested samples. This report shall not be reproduced, except in full, without written approval of CT Laboratories LLC.

APPROVED BY: _____ LABORATORY DIRECTOR

APPROVED BY: _____ QA OFFICER

APPROVED BY: _____ PROJECT MANAGER

Certifications: IL (NELAP 002413), KS (NELAP E-10368), KY (0023), PA (NELAP 68-04201), NJ (NELAP WI001), NC (674), WI (157066030), GA EDP Stipulation (Accreditor: LA NELAP, ACC#: 115843, Scope: Haz/solid water/Non-potable water, Effective: 07/01/2012, Expires: annually), DOD ELAP (A2LA 3317.013), AK (UST-099), LA (NELAP 115843), VA (460203)

CT LABORATORIES

delivering more than data from your environmental analyses

Table of Contents

Section	Page
Cover Page	1
Table of Contents	2
Case Narrative	3
Data Qualifier Sheet	11
Sample Delivery Group Summary	13
QC Batch Cross Reference	14
VOC QC Summary Documents	16
VOC Sample Data Documents	58
VOC ICAL Documents	78
VOC CCV Documents	161
VOC QC Documents	190
VOC Logbook Documents	240
SVOC QC Summary Documents	285
SVOC Sample Data Documents	337
SVOC ICAL Documents	362
SVOC CCV Documents	493
SVOC QC Documents	524
SVOC Logbook Documents	589
Pesticide QC Summary Documents	619
Pesticide Sample Data Documents	639
Pesticide ICAL Documents	646
Pesticide CCV Documents	826
Pesticide QC Documents	857
Pesticide Logbook Documents	898
PCB QC Summary Documents	918
PCB Sample Data Documents	926
PCB ICAL Documents	929
PCB CCV Documents	1102
PCB QC Documents	1109
PCB Logbook Documents	1120
Explosives QC Summary Documents	1134
Explosives Sample Data Documents	1145
Explosives ICAL Documents	1151
Explosives CCV Documents	1229
Explosives QC Documents	1246
Explosives Logbook Documents	1277
Metals CLP Forms Documents	1304
Metals Raw Data Documents	1438
Metals Logbook Documents	1784
Inorganic CLP Forms Documents	2030

Inorganic Raw Data Documents 2085
Inorganic Logbook Documents 2143
Subcontracted Analysis Documents 2266
Chain of Custody, PM Confirmation and Sample Condition Forms 2348

CT LABORATORIES

delivering more than data from your environmental analyses

Case Narrative (revised 9-24-13 for VOC, PAH, Pesticides analyte reporting list)

Client: ECC
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 8/16/2012
SDG #: 99335

An aqueous (equipment rinseate) sample was received for a variety of analyses, including: TAL metals, explosives, nitroguanidine (NQ), nitrocellulose, GRO, PCBs, pesticides, herbicides, PAHs, and VOCs. An aqueous and a solid IDW sample were received for a variety of analyses, including: pH, flashpoint, reactive cyanide, reactive sulfide, anions (solid only – nitrate and nitrite), TCLP metals, TCLP pesticides, TCLP SVOCs and TCLP VOCs. A trip blank was included in the VOC analyses. The assigned sample ID number, date sampled, and date received are indicated in the attached Project Summary. The samples were received intact and at a temperature within method specified acceptance limits. A breakdown of sample receipt information can be found on the Sample Condition Report located in the last section of the data package and any exceptions are noted below. The analyses were performed following DOD QSM 4.2

Sample Analysis and Quality Control

Volatile Organic Analysis:

The samples were analyzed using US EPA Methods 8260C (VOC's) and 8015C (GRO). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log

All analysis results met the method specified quality control criteria with the following exceptions:

Detailed reports were provided for the 8260 data for all detected compounds, as well as, for those compounds manually integrated (if applicable).

Compounds that may not meet the minimum average response factor (ARF) criteria for 8260C (such as several of the ketones) are analyzed at concentrations 2 to 50 times higher than normal to make up for their lack of response. However, the ARF on the response factor (RF) forms do not reflect this change in concentration. These compounds may be "flagged" on RF forms as a result

Some samples may have been analyzed and/or reanalyzed diluted to obtain results for all target compounds within the calibration range of the instrument.

Samples suspected of being poorly purged, improperly prepped, miss-injected, or potentially contaminated from carryover were reanalyzed and reported accordingly.

Level 8 was not used for acetone, 4-methyl-2-pentanone, and 2-hexanone on the initial calibration curve (W081813) due to loss in linearity. Acetone, carbon tetrachloride, 4-methyl-2-pentanone, trans-1,3-dichloropropene, dibromochloromethane, and bromoform were calibrated using quadratic regression (two ICV's were analyzed for these compounds).

VOC (8260C) Water Analyses

Analytical Run # 96835

CCV1 had high recoveries outside specified criteria for bromomethane and carbon disulfide (>20% Dev.). These compounds were not detected in the associated samples and the data were not qualified.

VOC (8260C) TCLP Analyses

Analytical Run # 97040

MRL1 and MRL2 each had a recovery for one compound outside acceptable limits. All target compounds were detected in the MDL check sample.

GRO (8015C) Water Analyses

Analytical Run # 96940

An insufficient sample volume was available and a Matrix Spike (MS) / Matrix Spike Duplicate (MSD) were not analyzed with this run.

Semi-volatiles Analysis:

The samples were analyzed using US EPA Method 8270D in SIM-mode (PAH's) and standard mode (SVOCs). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

PAH (8270D - SIM) Water Analyses

Analytical Run # 96939

All analysis results for this SDG met the method/project specified quality control criteria.

SVOC (8270D) Water Analyses

Analytical Run # 96903

The MRL and MDL were run at the beginning and ending of the sequences. The beginning MRL on 8/20/2013 had a high recovery for hexachlorobenzene. The ending MRL had low recoveries for benzyl alcohol and hexachlorocyclopentadiene. The ending MRL had a high recovery for hexachlorobenzene.

SVOC (8270D) TCLP Analyses

Analytical Run # 97009

The MRL and MDL were run at the beginning and ending of the sequences. The ending MRL had a high recovery for hexachlorobenzene.

Pesticide Analysis:

The samples were analyzed using US EPA Method 8081B. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Pesticide (8081B) Water Analyses

Analytical Run # 96883

All analysis results for this SDG met the method/project specified quality control criteria.

Pesticide (8081B) TCLP Analyses

Analytical Run # 97001

The method blank had alpha-chlordane detected at a concentration greater than the LOD and less than the RL. Alpha-chlordane was detected in samples 339580 and 339578. This analyte was qualified with a "B" in these samples.

PCB Analysis:

The samples were analyzed using US EPA Method 8082A. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

PCB (8082A) Water Analyses

Analytical Run # 96884

All analysis results for this SDG met the method/project specified quality control criteria.

Explosives Analysis:

The samples were analyzed using US EPA Method 8330B. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

All reported analytes with relative percent difference (RPD) values between the primary and confirmation results greater than 40% were qualified with a “P” and listed in the RPD table at the beginning of the Primary Sample Data section of the data package.

Explosives (8330B) Water Analyses

Analytical Run # 97103

Sample 341966 had a high surrogate recovery and the data was qualified with an "S" flag.

Nitroguanidine (NQ) Water Analyses (8330B)

Analytical Run # 97104

All analysis results for this SDG met the method/project specified quality control criteria.

Metals:

The samples were analyzed using US EPA Methods 6010C (ICP) and 7470A (Hg). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Initial and Continuing Calibration Verification
Blanks Summary
ICP Interference Check Data
Spike Sample Recovery
Duplicates Data
Laboratory Control Sample Data
Analysis Run Log

All analysis results met the method specified quality control criteria with the following exceptions:

Continuing Calibration Verifications standards were analyzed at two levels (CCV1 & CCV2) with potentially differing wavelengths. Data associated with CCV’s were evaluated based on the concentration of the element in the samples and compared to the appropriate CCV level/wavelength.

Some samples may have been analyzed and/or reanalyzed diluted to obtain results for all target analytes within the calibration range of the instrument.

ICP Metals (6010C) Water Analysis

Analytical Run # 96853

Continuing Calibration Verification (CCV1) standards failed for zinc. Sample results were not reported associated with the failing CCV1.

Continuing Calibration Verification (CCV2) standards failed for calcium and iron. Sample results greater than the LOD were not reported associated with the failing CCV2.

Calcium and iron were detected above the LOD and ½ of the Reporting Limit (RL) in the Method Blank (MB). The MB results for these elements that were less than one-tenth of the sample results the sample data were not qualified.

Thallium and manganese were detected above the LOD and less than ½ of the Reporting Limit (RL) in the Method Blank (MB). The MB results for these elements that were less than one-tenth of the sample results the sample data were not qualified.

The Serial Dilution (L) for sample # 339561was invalid. A Post Digestion Spike (PDS) was analyzed and was acceptable and was reported without qualification.

The Duplicate (DUP) for sample # 338561 was not applicable for some elements because the parent sample results for these analytes were less than 5 times the LOQ. A Matrix Spike Duplicate (MSD) was analyzed to demonstrate precision and was acceptable for. Sample results were reported and not qualified.

ICP Potassium and Sodium (6010C) Water Analysis

Analytical Run # 96854

The Serial Dilutions (L) for sample # 339561 was not applicable because the parent sample results for these elements were less than 50 times the LOQ. The Post Digestion Spike for this sample had acceptable recoveries for sodium and potassium. These elements had acceptable PDS recoveries were reported without qualification.

The Duplicate (DUP) for sample # 339561 was not applicable for sodium and potassium because the parent sample results for these analytes were less than 5 times the LOQ. A Matrix Spike Duplicate (MSD) was analyzed to demonstrate precision and acceptable. Sample results for sodium and potassium were reported and not qualified.

ICP Metals (6010C) TCLP Analysis

Analytical Run # 97082

Barium, selenium, and silver were detected above the LOD and less than ½ of the Reporting Limit (RL) in the Method Blank (MB). The MB results for these elements that were less than one-tenth of the sample results the sample data were not qualified.

The Serial Dilutions (L) for sample # 339580 was not applicable because the parent sample results for these elements were less than 50 times the LOQ. The Post Digestion Spike for this sample had acceptable recoveries. These elements were reported without qualification.

The Duplicate (DUP) for sample # 339580 was not applicable for some elements because the parent sample results for these analytes were less than 5 times the LOQ. A Matrix Spike Duplicate (MSD) was analyzed to demonstrate precision and was acceptable for. Sample results were reported and not qualified.

CVAA (7470A) Mercury Water Analysis

Analytical Run # 96908

The Serial Dilutions (L) for sample # 339561 was not applicable because the parent sample results for these elements were less than 50 times the LOQ. The Post Digestion Spike for this sample had acceptable recoveries for mercury. This element had an acceptable PDS recovery and was reported without qualification.

The Duplicate (DUP) for sample # 339561 was not applicable for mercury because the parent sample results for these analytes were less than 5 times the LOQ. A Matrix Spike Duplicate (MSD) was analyzed to demonstrate precision and acceptable. Sample results for mercury were reported and not qualified.

CVAA (7470A) Mercury TCLP Analysis

Analytical Run # 96919

The Serial Dilutions (L) for sample # 339580 was not applicable because the parent sample results for these elements were less than 50 times the LOQ. The Post Digestion Spike for this sample had acceptable recoveries for mercury. This element had an acceptable PDS recovery and was reported without qualification.

The Duplicate (DUP) for sample # 339580 was not applicable for mercury because the parent sample results for these analytes were less than 5 times the LOQ. A Matrix Spike Duplicate (MSD) was analyzed to demonstrate precision and acceptable. Sample results for mercury were reported and not qualified.

Inorganic Analyses:

The samples were analyzed using US EPA Methods 9046C (pH), 9045D (pH), 1010 (flashpoint), 9056A (anions), 9056M (nitrocellulose), and SW7.3 (reactive cyanide and reactive sulfide). All samples were analyzed within the holding time unless otherwise noted. The following summaries of quality control procedures are included:

Duplicate Analysis Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log

All analysis results for this SDG met the method/project specified quality control criteria with the following exceptions:

pH (9040C) Water and (9045D) Soil Analyses

Analytical Run # 96888

All analysis results for this SDG met the method/project specified quality control criteria.

Nitrocellulose (9056M) Water Analyses

Analytical Run # 97019

All analysis results for this SDG met the method/project specified quality control criteria.

An insufficient sample volume was provided for duplicate or matrix spikes.

Flashpoint (1010) Water and Soil Analyses

Analytical Run # 96995 & 96996

All analysis results for this SDG met the method/project specified quality control criteria.

Anions (9056A) Soil Analyses

Analytical Run # 96963

The Duplicate (DUP) for sample # 339568 exceeded Relative Percent Difference (RPD) limits for nitrate. The parent sample result was qualified with a "Y" flag. No MRL's were analyzed with this sample.

Reactive Cyanide (SW7.3) Water and Soil Analyses

Analytical Run #96821

All analysis results for this SDG met the method/project specified quality control criteria.

Reactive Sulfide (SW7.3) Water and Soil Analyses

Analytical Run #96822

All analysis results for this SDG met the method/project specified quality control criteria.

CT LABORATORIES

delivering more than data from your environmental analyses

Data Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was not above the detection level.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

CT LABORATORIES

delivering more than data from your environmental analyses

MANUAL INTEGRATION REASON CODES

CTLaboratories has identified four general cases with valid reasons supporting the use of manual integration techniques. These codes are used on chromatograms in this data package to document the reasons for manual integrations per CTLaboratories' SOP SS-10 current revision.

#1: **Data system failed to select the correct peak or missed the peak entirely.**
In some cases the chromatography system selects and integrates the "wrong peak". In this case the analyst must correct the selection and force the system to integrate the proper peak. In other instances the system may miss the peak completely. In this case the analyst manually integrated the peak

#2: **Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.**
This phenomenon is common at low concentrations where the signal to noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low or high area counts for the target compound.

#3: Improperly Integrated Isomers and/or coeluting compounds.
For when the system fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations may be inaccurate, and they must be corrected by manual integration. Prime examples are compounds that are unresolved and integrated improperly when present at low concentrations in standards or samples.

#4: System Established Incorrect Baseline.
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and may be corrected via manual procedures.

#5: Miscellaneous.
Some situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the group supervisor. If the form of manual integration is not clearly covered by these four cases, then review and approval by the group supervisor or the *QA/QC* Supervisor will be required.

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Sample Delivery Group

99335

ECC
AL EASTERDAY
33 BOSTON POST RD
MARLBOROUGH, MA 01752

Project Name: RVAAP
Project #:

CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
339561	99335		083SB-0023-0001-ER	GROUND WATER	08/15/2013	08/16/2013
339568	99335		083SB-0022-0001-IDW	SOIL	08/15/2013	08/16/2013
339578	99335		083SB-0022-0001-IDW	TCLP	08/15/2013	08/16/2013
339579	99335		083SB-0021-0001-IDW	GROUND WATER	08/15/2013	08/16/2013
339580	99335		083SB-0021-0001-IDW	TCLP	08/15/2013	08/16/2013
339581	99335		083SB-0024-0001-TB	TRIP BLANK	08/15/2013	08/16/2013

CT LABORATORIES
delivering more than data from your environmental analyses
1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

QC Batch Cross Reference Summary

ECC
AL EASTERDAY
33 BOSTON POST RD
MARLBOROUGH, MA 01752

Project Name: RVAAP
Project #:
Report Date: 09/06/2013
Date Received: 08/16/2013
SDG #: 99335

Inorganic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339568	Solids, Percent	SOIL		96911
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339568	pH	SOIL		96888
339579	pH	GROUND WATER		96888
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339568	Flashpoint	SOIL		96996
339579	Flashpoint	GROUND WATER		96995
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339568	Cyanide, Reactive	SOIL		96821
339579	Cyanide, Reactive	GROUND WATER		96821
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339568	Sulfide, Reactive	SOIL		96823
339579	Sulfide, Reactive	GROUND WATER		96823
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339568	Anions QSM	SOIL	45550	96963
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339561	Nitrocellulose QSM	GROUND WATER	45578	97019

Metal Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	ICP Metals, Total QSM	GROUND WATER	45497	96853
339561	ICP Metals, Total QSM	GROUND WATER	45497	96853
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339561	Potassium, Total QSM	GROUND WATER	45497	96854
CTI LAB#:	**Parameter**	**Matrix**	**Prep Batch #**	**Analytical Run #**
339561	Sodium, Total QSM	GROUND WATER	45497	96854

CT LABORATORIES
delivering more than data from your environmental analyses

Project Name: RVAAP
Project #:
SDG #: 99335

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	Mercury, Total QSM	GROUND WATER	45527	96908

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339578	ICP Metals QSM TCLP	TCLP	45554	97082
339580	ICP Metals QSM TCLP	TCLP	45554	97082

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339578	Mercury QSM TCLP	TCLP	45534	96919
339580	Mercury QSM TCLP	TCLP	45534	96919

Organic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	VOC's by 8260 QSM	GROUND WATER		96835
339581	VOC's by 8260 QSM	TRIP BLANK		96835

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	SVOC 8270 QSM	GROUND WATER	45503	96903

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	PCB	GROUND WATER	45505	96884

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	Pesticides	GROUND WATER	45504	96883

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	Explosives by 8330	GROUND WATER	45571	97104

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	Explosives by 8330	GROUND WATER	45570	97103

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	PAH by 8270 SIM	GROUND WATER	45508	96939

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339561	GRO QSM	GROUND WATER		96940

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339578	VOC's by 8260 TCLP	TCLP		97040
339580	VOC's by 8260 TCLP	TCLP		97040

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339578	SVOC 8270 QSM TCLP	TCLP	45552	97009
339580	SVOC 8270 QSM TCLP	TCLP	45552	97009

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
339578	Pesticides TCLP	TCLP	45551	97001
339580	Pesticides TCLP	TCLP	45551	97001

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1A

VOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TCLP	SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	339580
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	97040	Dilution Factor:	100.00
Date & Time Analyzed:	08/23/2013 / 17:37	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			08/23/2013 / 08:00
ICAL Calibration #:	W081813.	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-35-4	1,1-Dichloroethene	0.025	U	0.024	0.025	0.050	0.050
107-06-2	1,2-Dichloroethane	0.050	U	0.030	0.050	0.10	0.10
78-93-3	2-Butanone	0.25	U	0.24	0.25	0.50	0.50
71-43-2	Benzene	0.025	U	0.019	0.025	0.050	0.050
56-23-5	Carbon tetrachloride	0.025	U	0.023	0.025	0.050	0.050
108-90-7	Chlorobenzene	0.025	U	0.024	0.025	0.050	0.050
67-66-3	Chloroform	0.025	U	0.015	0.025	0.050	0.050
127-18-4	Tetrachloroethene	0.050	U	0.030	0.050	0.10	0.10
79-01-6	Trichloroethene	0.025	U	0.021	0.025	0.050	0.050
75-01-4	Vinyl chloride	0.025	U	0.018	0.025	0.050	0.050

CT LABORATORIES
delivering more than data from your environmental analyses

1A

VOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TCLP	SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	339578
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	97040	Dilution Factor:	100.00
Date & Time Analyzed:	08/23/2013 / 17:08	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			08/22/2013 / 16:00
ICAL Calibration #:	W081813.	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-35-4	1,1-Dichloroethene	0.025	U	0.024	0.025	0.050	0.050
107-06-2	1,2-Dichloroethane	0.050	U	0.030	0.050	0.10	0.10
78-93-3	2-Butanone	0.25	U	0.24	0.25	0.50	0.50
71-43-2	Benzene	0.025	U	0.019	0.025	0.050	0.050
56-23-5	Carbon tetrachloride	0.025	U	0.023	0.025	0.050	0.050
108-90-7	Chlorobenzene	0.025	U	0.024	0.025	0.050	0.050
67-66-3	Chloroform	0.025	U	0.015	0.025	0.050	0.050
127-18-4	Tetrachloroethene	0.050	U	0.030	0.050	0.10	0.10
79-01-6	Trichloroethene	0.025	U	0.021	0.025	0.050	0.050
75-01-4	Vinyl chloride	0.025	U	0.018	0.025	0.050	0.050

CT LABORATORIES
delivering more than data from your environmental analyses

1A

VOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8015C	Analytical Prep Batch #	
Analytical Run #:	96940	Dilution Factor:	1.00
Date & Time Analyzed:	08/21/2013 / 13:18	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:		Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
GASCOMP	Gasoline Range Organics	26	J	23	50	100	100

CT LABORATORIES
delivering more than data from your environmental analyses

1A

VOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	98431	Dilution Factor:	1.00
Date & Time Analyzed:	08/19/2013 / 19:48	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:		Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	0.25	U	0.21	0.25	0.50	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	0.19	0.25	0.50	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.26	0.50	1.0	1.0
75-34-3	1,1-Dichloroethane	0.25	U	0.20	0.25	0.50	0.50
75-35-4	1,1-Dichloroethene	0.25	U	0.24	0.25	0.50	0.50
106-93-4	1,2-Dibromoethane	0.25	U	0.16	0.25	0.50	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.30	0.50	1.0	1.0
78-87-5	1,2-Dichloropropane	0.25	U	0.22	0.25	0.50	0.50
78-93-3	2-Butanone	2.5	U	2.4	2.5	5.0	5.0
591-78-6	2-Hexanone	5.0	U	4.0	5.0	10	10
108-10-1	4-Methyl-2-pentanone	5.0	U	3.0	5.0	10	10
67-64-1	Acetone	5.0	U	5.0	5.0	10	10
71-43-2	Benzene	0.25	U	0.19	0.25	0.50	0.50
74-97-5	Bromochloromethane	0.25	U	0.19	0.25	0.50	0.50
75-27-4	Bromodichloromethane	0.25	U	0.20	0.25	0.50	0.50
75-25-2	Bromoform	0.25	U	0.22	0.25	0.50	0.50
74-83-9	Bromomethane	0.50	U	0.50	0.50	1.0	1.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50	1.0	1.0
56-23-5	Carbon tetrachloride	0.25	U	0.23	0.25	0.50	0.50
108-90-7	Chlorobenzene	0.25	U	0.24	0.25	0.50	0.50
75-00-3	Chloroethane	0.50	U	0.40	0.50	1.0	1.0
67-66-3	Chloroform	0.37	J	0.15	0.25	0.50	0.50
74-87-3	Chloromethane	0.50	U	0.40	0.50	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	0.25	0.50	0.50

CT LABORATORIES
delivering more than data from your environmental analyses

1A

VOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	98431	Dilution Factor:	1.00
Date & Time Analyzed:	08/19/2013 / 19:48	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:		Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	0.25	U	0.19	0.25	0.50	0.50
124-48-1	Dibromochloromethane	0.25	U	0.19	0.25	0.50	0.50
100-41-4	Ethylbenzene	0.25	U	0.22	0.25	0.50	0.50
1330-20-7	m & p-Xylene	0.50	U	0.50	0.50	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.50	U	0.29	0.50	1.0	1.0
75-09-2	Methylene chloride	0.50	U	0.40	0.50	2.0	2.0
95-47-6	o-Xylene	0.25	U	0.24	0.25	0.50	0.50
100-42-5	Styrene	0.25	U	0.20	0.25	0.50	0.50
127-18-4	Tetrachloroethene	0.50	U	0.30	0.50	1.0	1.0
108-88-3	Toluene	0.25	U	0.22	0.25	0.50	0.50
1330-20-7	Total Xylene	0.50	U	0.50	0.50	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	0.25	0.50	0.50
10061-02-6	trans-1,3-Dichloropropene	0.25	U	0.19	0.25	0.50	0.50
79-01-6	Trichloroethene	0.25	U	0.21	0.25	0.50	0.50
75-01-4	Vinyl chloride	0.25	U	0.18	0.25	0.50	0.50

CT LABORATORIES
delivering more than data from your environmental analyses

1A

VOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0024-0001-TB

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TRIP BLANK	SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	339581
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	98431	Dilution Factor:	1.00
Date & Time Analyzed:	08/19/2013 / 19:19	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:		Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	0.25	U	0.21	0.25	0.50	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	0.19	0.25	0.50	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.26	0.50	1.0	1.0
75-34-3	1,1-Dichloroethane	0.25	U	0.20	0.25	0.50	0.50
75-35-4	1,1-Dichloroethene	0.25	U	0.24	0.25	0.50	0.50
106-93-4	1,2-Dibromoethane	0.25	U	0.16	0.25	0.50	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.30	0.50	1.0	1.0
78-87-5	1,2-Dichloropropane	0.25	U	0.22	0.25	0.50	0.50
78-93-3	2-Butanone	2.5	U	2.4	2.5	5.0	5.0
591-78-6	2-Hexanone	5.0	U	4.0	5.0	10	10
108-10-1	4-Methyl-2-pentanone	5.0	U	3.0	5.0	10	10
67-64-1	Acetone	5.0	U	5.0	5.0	10	10
71-43-2	Benzene	0.25	U	0.19	0.25	0.50	0.50
74-97-5	Bromochloromethane	0.25	U	0.19	0.25	0.50	0.50
75-27-4	Bromodichloromethane	0.25	U	0.20	0.25	0.50	0.50
75-25-2	Bromoform	0.25	U	0.22	0.25	0.50	0.50
74-83-9	Bromomethane	0.50	U	0.50	0.50	1.0	1.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50	1.0	1.0
56-23-5	Carbon tetrachloride	0.25	U	0.23	0.25	0.50	0.50
108-90-7	Chlorobenzene	0.25	U	0.24	0.25	0.50	0.50
75-00-3	Chloroethane	0.50	U	0.40	0.50	1.0	1.0
67-66-3	Chloroform	0.25	U	0.15	0.25	0.50	0.50
74-87-3	Chloromethane	0.50	U	0.40	0.50	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	0.25	0.50	0.50

CT LABORATORIES
delivering more than data from your environmental analyses

1A

VOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0024-0001-TB

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TRIP BLANK	SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	339581
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	98431	Dilution Factor:	1.00
Date & Time Analyzed:	08/19/2013 / 19:19	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:		Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	0.25	U	0.19	0.25	0.50	0.50
124-48-1	Dibromochloromethane	0.25	U	0.19	0.25	0.50	0.50
100-41-4	Ethylbenzene	0.25	U	0.22	0.25	0.50	0.50
1330-20-7	m & p-Xylene	0.50	U	0.50	0.50	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.50	U	0.29	0.50	1.0	1.0
75-09-2	Methylene chloride	1.3	J	0.40	0.50	2.0	2.0
95-47-6	o-Xylene	0.25	U	0.24	0.25	0.50	0.50
100-42-5	Styrene	0.25	U	0.20	0.25	0.50	0.50
127-18-4	Tetrachloroethene	0.50	U	0.30	0.50	1.0	1.0
108-88-3	Toluene	0.25	U	0.22	0.25	0.50	0.50
1330-20-7	Total Xylene	0.50	U	0.50	0.50	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	0.25	0.50	0.50
10061-02-6	trans-1,3-Dichloropropene	0.25	U	0.19	0.25	0.50	0.50
79-01-6	Trichloroethene	0.25	U	0.21	0.25	0.50	0.50
75-01-4	Vinyl chloride	0.25	U	0.18	0.25	0.50	0.50

CT LABORATORIES
delivering more than data from your environmental analyses

1A-2

VOLATILE ORGANICS ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	340028
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	96835	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W081813.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
71-55-6	1,1,1-Trichloroethane	08/19/2013	12:25	0.21	U	0.21	0.50	***0.25***
79-34-5	1,1,2,2-Tetrachloroethane	08/19/2013	12:25	0.19	U	0.19	0.50	***0.25***
79-00-5	1,1,2-Trichloroethane	08/19/2013	12:25	0.26	U	0.26	1.00	***0.5***
75-34-3	1,1-Dichloroethane	08/19/2013	12:25	0.20	U	0.20	0.50	***0.25***
75-35-4	1,1-Dichloroethene	08/19/2013	12:25	0.24	U	0.24	0.50	***0.25***
106-93-4	1,2-Dibromoethane	08/19/2013	12:25	0.16	U	0.16	0.50	***0.25***
107-06-2	1,2-Dichloroethane	08/19/2013	12:25	0.3	U	0.3	1.0	***0.5***
78-87-5	1,2-Dichloropropane	08/19/2013	12:25	0.22	U	0.22	0.50	***0.25***
78-93-3	2-Butanone	08/19/2013	12:25	2.4	U	2.4	5.0	***2.5***
591-78-6	2-Hexanone	08/19/2013	12:25	4	U	4	10	***5***
108-10-1	4-Methyl-2-pentanone	08/19/2013	12:25	3	U	3	10	***5***
67-64-1	Acetone	08/19/2013	12:25	5	U	5	10	***5***
71-43-2	Benzene	08/19/2013	12:25	0.19	U	0.19	0.50	***0.25***
74-97-5	Bromochloromethane	08/19/2013	12:25	0.19	U	0.19	0.50	***0.25***
75-27-4	Bromodichloromethane	08/19/2013	12:25	0.20	U	0.20	0.50	***0.25***
75-25-2	Bromoform	08/19/2013	12:25	0.22	U	0.22	0.50	***0.25***
74-83-9	Bromomethane	08/19/2013	12:25	0.5	U	0.5	1.0	***0.5***
75-15-0	Carbon disulfide	08/19/2013	12:25	0.5	U	0.5	1.0	***0.5***
56-23-5	Carbon tetrachloride	08/19/2013	12:25	0.23	U	0.23	0.50	***0.25***
108-90-7	Chlorobenzene	08/19/2013	12:25	0.24	U	0.24	0.50	***0.25***
75-00-3	Chloroethane	08/19/2013	12:25	0.4	U	0.4	1.0	***0.5***
67-66-3	Chloroform	08/19/2013	12:25	0.15	U	0.15	0.50	***0.25***
74-87-3	Chloromethane	08/19/2013	12:25	0.4	U	0.4	1.0	***0.5***

CT LABORATORIES
delivering more than data from your environmental analyses

1A-2

VOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	340028
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	96835	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W081813.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
156-59-2	cis-1,2-Dichloroethene	08/19/2013	12:25	0.25	U	0.25	0.50	***0.25***
10061-01-5	cis-1,3-Dichloropropene	08/19/2013	12:25	0.19	U	0.19	0.50	***0.25***
124-48-1	Dibromochloromethane	08/19/2013	12:25	0.19	U	0.19	0.50	***0.25***
100-41-4	Ethylbenzene	08/19/2013	12:25	0.22	U	0.22	0.50	***0.25***
1330-20-7	m & p-Xylene	08/19/2013	12:25	0.5	U	0.5	1.0	***0.5***
1634-04-4	Methyl tert-butyl ether	08/19/2013	12:25	0.29	U	0.29	1.00	***0.50***
75-09-2	Methylene chloride	08/19/2013	12:25	0.4	U	0.4	2.0	***1.0***
95-47-6	o-Xylene	08/19/2013	12:25	0.24	U	0.24	0.50	***0.25***
100-42-5	Styrene	08/19/2013	12:25	0.20	U	0.20	0.50	***0.25***
127-18-4	Tetrachloroethene	08/19/2013	12:25	0.3	U	0.3	1.0	***0.5***
108-88-3	Toluene	08/19/2013	12:25	0.22	U	0.22	0.50	***0.25***
156-60-5	trans-1,2-Dichloroethene	08/19/2013	12:25	0.25	U	0.25	0.50	***0.25***
10061-02-6	trans-1,3-Dichloropropene	08/19/2013	12:25	0.19	U	0.19	0.50	***0.25***
79-01-6	Trichloroethene	08/19/2013	12:25	0.21	U	0.21	0.50	***0.25***
75-01-4	Vinyl chloride	08/19/2013	12:25	0.18	U	0.18	0.50	***0.25***

CT LABORATORIES
delivering more than data from your environmental analyses

1A-2

VOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	342876
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8015C	Analytical Prep Batch #	0
Analytical Run #:	96940	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:		Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
GASCOMP	Gasoline Range Organics	08/21/2013	12:35	23	U	23	100	***50***

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

METHOD BLANK

1A-2

VOLATILE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	(g/mL)	CTL Sample ID:	343278
% Solids:		Date Received:	08/16/2013
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	97040	Dilution Factor:	100.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			08/23/2013 / 08:00
ICAL Calibration #:	W081813.	Concentration Units:	mg/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
75-35-4	1,1-Dichloroethene	08/23/2013	16:39	0.00024	U	0.00024	0.00050	***0.00025***
107-06-2	1,2-Dichloroethane	08/23/2013	16:39	0.0003	U	0.0003	0.0010	***0.0005***
78-93-3	2-Butanone	08/23/2013	16:39	0.0024	U	0.0024	0.0050	***0.0025***
71-43-2	Benzene	08/23/2013	16:39	0.00019	U	0.00019	0.00050	***0.00025***
56-23-5	Carbon tetrachloride	08/23/2013	16:39	0.00023	U	0.00023	0.00050	***0.00025***
108-90-7	Chlorobenzene	08/23/2013	16:39	0.00024	U	0.00024	0.00050	***0.00025***
67-66-3	Chloroform	08/23/2013	16:39	0.00015	U	0.00015	0.00050	***0.00025***
127-18-4	Tetrachloroethene	08/23/2013	16:39	0.0003	U	0.0003	0.0010	***0.0005***
79-01-6	Trichloroethene	08/23/2013	16:39	0.00021	U	0.00021	0.00050	***0.00025***
75-01-4	Vinyl chloride	08/23/2013	16:39	0.00018	U	0.00018	0.00050	***0.00025***

CT LABORATORIES
delivering more than data from your environmental analyses

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8015C	SDG:	99335
Analytical Run #:	96940	ICAL Calibration #:	

CTLab #	339561				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	104	76	166	
CTLab #	**342856**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	103	70	130	
CTLab #	**342858**	Sample Type:		Method Reporting Limit	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	105	70	130	
CTLab #	**342863**	Sample Type:		Method Reporting Limit	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	110	70	130	
CTLab #	**342871**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	117	70	130	
CTLab #	**342872**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	116	70	130	
CTLab #	**342873**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	101	70	130	
CTLab #	**342874**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	94.7	66	166	
CTLab #	**342875**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	123	66	166	
CTLab #	**342876**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURROGATE: a,a,a TFT	100	103	66	166	

CT LABORATORIES
delivering more than data from your environmental analyses

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8260C	SDG:	99335
Analytical Run #:	96835	ICAL Calibration #:	W081813.

CTLab #	338729				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	96	70	120	
Bromofluorobenzene	100	103	75	120	
d8-Toluene	100	93	85	120	
Dibromofluoromethane	100	95	85	115	
CTLab #	**339561**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	70	120	
Bromofluorobenzene	100	100	75	120	
d8-Toluene	100	92	85	120	
Dibromofluoromethane	100	95	85	115	
CTLab #	**339581**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	94	70	120	
Bromofluorobenzene	100	98	75	120	
d8-Toluene	100	93	85	120	
Dibromofluoromethane	100	92	85	115	
CTLab #	**340023**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99.0	70	120	
Bromofluorobenzene	100	100	70	120	
d8-Toluene	100	96.0	85	120	
Dibromofluoromethane	100	100	85	115	
CTLab #	**340024**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99.0	70	120	
Bromofluorobenzene	100	100	75	120	
d8-Toluene	100	96.0	85	120	
Dibromofluoromethane	100	100	85	115	
CTLab #	**340028**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	70	120	
Bromofluorobenzene	100	106	75	120	
d8-Toluene	100	93.0	85	120	
Dibromofluoromethane	100	95.0	85	115	

CT LABORATORIES
delivering more than data from your environmental analyses

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8260C	SDG:	99335
Analytical Run #:	96835	ICAL Calibration #:	W081813.

CTLab #	340195	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	94.0	70	120	
Bromofluorobenzene	100	104	75	120	
d8-Toluene	100	97.0	85	120	
Dibromofluoromethane	100	105	85	115	

CTLab #	340715	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	70	120	
Bromofluorobenzene	100	102	75	120	
d8-Toluene	100	97.0	85	120	
Dibromofluoromethane	100	102	85	115	

CT LABORATORIES
delivering more than data from your environmental analyses

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8260C	SDG:	99335
Analytical Run #:	97040	ICAL Calibration #:	W081813.

CTLab #	339578				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98	70	120	
Bromofluorobenzene	100	102	75	120	
d8-Toluene	100	93	85	120	
Dibromofluoromethane	100	96	85	115	

CTLab #	339580				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99	70	120	
Bromofluorobenzene	100	99	75	120	
d8-Toluene	100	91	85	120	
Dibromofluoromethane	100	96	85	115	

CTLab #	343260	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	95.0	80	120	
Bromofluorobenzene	100	106	80	120	
d8-Toluene	100	96.0	80	120	
Dibromofluoromethane	100	102	80	120	

CTLab #	343270	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	70	120	
Bromofluorobenzene	100	96.0	75	120	
d8-Toluene	100	97.0	85	120	
Dibromofluoromethane	100	98.0	85	115	

CTLab #	343276	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99.0	70	120	
Bromofluorobenzene	100	100	75	120	
d8-Toluene	100	98.0	85	120	
Dibromofluoromethane	100	105	85	115	

CTLab #	343277	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	70	120	
Bromofluorobenzene	100	105	75	120	
d8-Toluene	100	95.0	85	120	
Dibromofluoromethane	100	100	85	115	

CT LABORATORIES
delivering more than data from your environmental analyses

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8260C	SDG:	99335
Analytical Run #:	97040	ICAL Calibration #:	W081813.

CTLab #	343278	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	92.0	70	120	
Bromofluorobenzene	100	106	75	120	
d8-Toluene	100	93.0	85	120	
Dibromofluoromethane	100	96.0	85	115	

CTLab #	344484	Sample Type:		Method Reporting Limit	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	95.0	70	120	
Bromofluorobenzene	100	100	75	120	
d8-Toluene	100	93.0	85	120	
Dibromofluoromethane	100	97.0	85	115	

CTLab #	344485	Sample Type:		Method Reporting Limit	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	95.0	70	120	
Bromofluorobenzene	100	98.0	75	120	
d8-Toluene	100	93.0	85	120	
Dibromofluoromethane	100	95.0	85	115	

CTLab #	344486	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	70	120	
Bromofluorobenzene	100	102	75	120	
d8-Toluene	100	92.0	85	120	
Dibromofluoromethane	100	95.0	85	115	

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: GROUND WATER SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 96835 Sample No.: 340195 Parent Sample No.: 339561

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1-Trichloroethane	08/19/2013	21:16	65-130	10.9		10.0	109
1,1,2,2-Tetrachloroethane	08/19/2013	21:16	65-130	9.59		10.0	96
1,1,2-Trichloroethane	08/19/2013	21:16	75-125	9.77		10.0	98
1,1-Dichloroethane	08/19/2013	21:16	70-135	10.2		10.0	102
1,1-Dichloroethene	08/19/2013	21:16	70-130	10.7		10.0	107
1,2-Dibromoethane	08/19/2013	21:16	80-120	9.57		10.0	96
1,2-Dichloroethane	08/19/2013	21:16	70-130	9.93		10.0	99
1,2-Dichloropropane	08/19/2013	21:16	75-125	9.52		10.0	95
2-Butanone	08/19/2013	21:16	30-150	88.2		100	88
2-Hexanone	08/19/2013	21:16	55-130	96.8		100	97
4-Methyl-2-pentanone	08/19/2013	21:16	60-135	97.8		100	98
Acetone	08/19/2013	21:16	40-140	68.4		100	68
Benzene	08/19/2013	21:16	80-120	10.6		10.0	106
Bromochloromethane	08/19/2013	21:16	65-130	9.63		10.0	96
Bromodichloromethane	08/19/2013	21:16	75-120	10.2		10.0	102
Bromoform	08/19/2013	21:16	70-130	7.71		10.0	77
Bromomethane	08/19/2013	21:16	30-145	11.9		10.0	119
Carbon disulfide	08/19/2013	21:16	35-160	22.6		20.0	113
Carbon tetrachloride	08/19/2013	21:16	65-140	9.65		10.0	96
Chlorobenzene	08/19/2013	21:16	80-120	10.1		10.0	101
Chloroethane	08/19/2013	21:16	60-135	10.1		10.0	101
Chloroform	08/19/2013	21:16	65-135	10.2		10.0	102
Chloromethane	08/19/2013	21:16	40-125	11.2		10.0	112
cis-1,2-Dichloroethene	08/19/2013	21:16	70-125	9.96		10.0	100
cis-1,3-Dichloropropene	08/19/2013	21:16	70-130	9.60		10.0	96
Dibromochloromethane	08/19/2013	21:16	60-135	8.53		10.0	85
Ethylbenzene	08/19/2013	21:16	75-125	10.8		10.0	108
m & p-Xylene	08/19/2013	21:16	75-130	21.2		20.0	106
Methyl tert-butyl ether	08/19/2013	21:16	65-125	9.00		10.0	90
Methylene chloride	08/19/2013	21:16	55-140	9.84		10.0	98
o-Xylene	08/19/2013	21:16	80-120	9.06		10.0	91

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: GROUND WATER SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 96835 Sample No.: 340195 Parent Sample No.: 339561

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Styrene	08/19/2013	21:16	65-135	9.72		10.0	97
Tetrachloroethene	08/19/2013	21:16	45-150	11.2		10.0	112
Toluene	08/19/2013	21:16	75-120	10.4		10.0	104
trans-1,2-Dichloroethene	08/19/2013	21:16	60-140	10.4		10.0	104
trans-1,3-Dichloropropene	08/19/2013	21:16	55-140	8.03		10.0	80
Trichloroethene	08/19/2013	21:16	70-125	10.4		10.0	104
Vinyl chloride	08/19/2013	21:16	50-145	11.5		10.0	115

Spike Recovery: 0 out of 38 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: TCLP SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: mg/L

Analytical Run #: 97040 Sample No.: 343276 Parent Sample No.: 339578

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1-Dichloroethene	08/23/2013	18:07	70-130	1.06		1.00	106
1,2-Dichloroethane	08/23/2013	18:07	70-130	1.05		1.00	105
2-Butanone	08/23/2013	18:07	30-150	9.63		10.0	96
Benzene	08/23/2013	18:07	80-120	1.08		1.00	108
Carbon tetrachloride	08/23/2013	18:07	65-140	0.955		1.00	96
Chlorobenzene	08/23/2013	18:07	80-120	1.01		1.00	101
Chloroform	08/23/2013	18:07	65-135	1.02		1.00	102
Tetrachloroethene	08/23/2013	18:07	45-150	1.11		1.00	111
Trichloroethene	08/23/2013	18:07	70-125	1.06		1.00	106
Vinyl chloride	08/23/2013	18:07	50-145	0.965		1.00	96

Spike Recovery: 0 out of 10 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: GROUND WATER SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 96835 Sample No.: 340715 Parent Sample No.: 340195

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
1,1,1-Trichloroethane	08/19/2013	21:46	11.3	10.0	113	3	65-130	30
1,1,2,2-Tetrachloroethane	08/19/2013	21:46	10.0	10.0	100	4	65-130	30
1,1,2-Trichloroethane	08/19/2013	21:46	10.4	10.0	104	6	75-125	30
1,1-Dichloroethane	08/19/2013	21:46	10.3	10.0	103	2	70-135	30
1,1-Dichloroethene	08/19/2013	21:46	11.6	10.0	116	8	70-130	30
1,2-Dibromoethane	08/19/2013	21:46	9.89	10.0	99	3	80-120	30
1,2-Dichloroethane	08/19/2013	21:46	10.5	10.0	105	5	70-130	30
1,2-Dichloropropane	08/19/2013	21:46	9.57	10.0	96	0	75-125	30
2-Butanone	08/19/2013	21:46	93.5	100	94	6	30-150	30
2-Hexanone	08/19/2013	21:46	105	100	105	8	55-130	30
4-Methyl-2-pentanone	08/19/2013	21:46	99.8	100	100	2	60-135	30
Acetone	08/19/2013	21:46	72.7	100	73	6	40-140	30
Benzene	08/19/2013	21:46	10.8	10.0	108	2	80-120	30
Bromochloromethane	08/19/2013	21:46	9.40	10.0	94	2	65-130	30
Bromodichloromethane	08/19/2013	21:46	10.5	10.0	105	3	75-120	30
Bromoform	08/19/2013	21:46	8.45	10.0	84	9	70-130	30
Bromomethane	08/19/2013	21:46	11.3	10.0	113	6	30-145	30
Carbon disulfide	08/19/2013	21:46	21.4	20.0	107	5	35-160	30
Carbon tetrachloride	08/19/2013	21:46	9.71	10.0	97	1	65-140	30
Chlorobenzene	08/19/2013	21:46	10.5	10.0	105	4	80-120	30
Chloroethane	08/19/2013	21:46	10.6	10.0	106	5	60-135	30
Chloroform	08/19/2013	21:46	10.4	10.0	104	2	65-135	30
Chloromethane	08/19/2013	21:46	10.6	10.0	106	6	40-125	30
cis-1,2-Dichloroethene	08/19/2013	21:46	10.2	10.0	102	3	70-125	30
cis-1,3-Dichloropropene	08/19/2013	21:46	9.58	10.0	96	0	70-130	30
Dibromochloromethane	08/19/2013	21:46	8.97	10.0	90	5	60-135	30
Ethylbenzene	08/19/2013	21:46	11.2	10.0	112	4	75-125	30
m & p-Xylene	08/19/2013	21:46	21.4	20.0	107	1	75-130	30
Methyl tert-butyl ether	08/19/2013	21:46	9.68	10.0	97	7	65-125	30
Methylene chloride	08/19/2013	21:46	9.36	10.0	94	5	55-140	30
o-Xylene	08/19/2013	21:46	10.5	10.0	105	15	80-120	30

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: GROUND WATER SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 96835 Sample No.: 340715 Parent Sample No.: 340195

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Styrene	08/19/2013	21:46	10.4	10.0	104	7	65-135	30
Tetrachloroethene	08/19/2013	21:46	11.6	10.0	116	3	45-150	30
Toluene	08/19/2013	21:46	10.4	10.0	104	1	75-120	30
trans-1,2-Dichloroethene	08/19/2013	21:46	10.4	10.0	104	0	60-140	30
trans-1,3-Dichloropropene	08/19/2013	21:46	8.25	10.0	82	3	55-140	30
Trichloroethene	08/19/2013	21:46	10.4	10.0	104	0	70-125	30
Vinyl chloride	08/19/2013	21:46	11.8	10.0	118	2	50-145	30

RPD or Spike Recovery: 0 out of 38 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

083SB-0022-0001-IDW

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: TCLP SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: mg/L

Analytical Run #: 97040 Sample No.: 343277 Parent Sample No.: 343276

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
1,1-Dichloroethene	08/23/2013	18:36	1.04	1.00	104	1	70-130	30
1,2-Dichloroethane	08/23/2013	18:36	1.06	1.00	106	1	70-130	30
2-Butanone	08/23/2013	18:36	10.0	10.0	100	4	30-150	30
Benzene	08/23/2013	18:36	1.10	1.00	110	2	80-120	30
Carbon tetrachloride	08/23/2013	18:36	0.924	1.00	92	3	65-140	30
Chlorobenzene	08/23/2013	18:36	1.03	1.00	103	2	80-120	30
Chloroform	08/23/2013	18:36	1.04	1.00	104	2	65-135	30
Tetrachloroethene	08/23/2013	18:36	1.15	1.00	115	3	45-150	30
Trichloroethene	08/23/2013	18:36	1.02	1.00	102	4	70-125	30
Vinyl chloride	08/23/2013	18:36	1.01	1.00	101	5	50-145	30

RPD or Spike Recovery: 0 out of 10 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 340024 SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Sample No.: 340024 Parent Sample No.: 0

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

Analytical Run #: 96835 ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1-Trichloroethane	08/19/2013	11:55	65-130	10.7		10.0	107
1,1,2,2-Tetrachloroethane	08/19/2013	11:55	65-130	10.0		10.0	100
1,1,2-Trichloroethane	08/19/2013	11:55	75-125	10.5		10.0	105
1,1-Dichloroethane	08/19/2013	11:55	70-135	11.0		10.0	110
1,1-Dichloroethene	08/19/2013	11:55	70-130	11.3		10.0	113
1,2-Dibromoethane	08/19/2013	11:55	80-120	10.4		10.0	104
1,2-Dichloroethane	08/19/2013	11:55	70-130	10.1		10.0	101
1,2-Dichloropropane	08/19/2013	11:55	75-125	10.8		10.0	108
2-Butanone	08/19/2013	11:55	30-150	103		100	103
2-Hexanone	08/19/2013	11:55	55-130	109		100	109
4-Methyl-2-pentanone	08/19/2013	11:55	60-135	107		100	107
Acetone	08/19/2013	11:55	40-140	84.7		100	85
Benzene	08/19/2013	11:55	80-120	10.9		10.0	109
Bromochloromethane	08/19/2013	11:55	65-130	9.53		10.0	95
Bromodichloromethane	08/19/2013	11:55	75-120	10.1		10.0	101
Bromoform	08/19/2013	11:55	70-130	8.36		10.0	84
Bromomethane	08/19/2013	11:55	30-145	13.3		10.0	133
Carbon disulfide	08/19/2013	11:55	35-160	24.6		20.0	123
Carbon tetrachloride	08/19/2013	11:55	65-140	9.31		10.0	93
Chlorobenzene	08/19/2013	11:55	80-120	10.6		10.0	106
Chloroethane	08/19/2013	11:55	60-135	11.2		10.0	112
Chloroform	08/19/2013	11:55	65-135	10.6		10.0	106
Chloromethane	08/19/2013	11:55	40-125	10.7		10.0	107
cis-1,2-Dichloroethene	08/19/2013	11:55	70-125	10.5		10.0	105
cis-1,3-Dichloropropene	08/19/2013	11:55	70-130	10.9		10.0	109
Dibromochloromethane	08/19/2013	11:55	60-135	9.54		10.0	95
Ethylbenzene	08/19/2013	11:55	75-125	11.1		10.0	111
m & p-Xylene	08/19/2013	11:55	75-130	21.5		20.0	108

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 340024 SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Sample No.: 340024 Parent Sample No.: 0

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

Analytical Run #: 96835 ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Methyl tert-butyl ether	08/19/2013	11:55	65-125	10.2		10.0	102
Methylene chloride	08/19/2013	11:55	55-140	10.1		10.0	101
o-Xylene	08/19/2013	11:55	80-120	11.0		10.0	110
Styrene	08/19/2013	11:55	65-135	10.5		10.0	105
Tetrachloroethene	08/19/2013	11:55	45-150	11.3		10.0	113
Toluene	08/19/2013	11:55	75-120	10.8		10.0	108
trans-1,2-Dichloroethene	08/19/2013	11:55	60-140	11.1		10.0	111
trans-1,3-Dichloropropene	08/19/2013	11:55	55-140	9.08		10.0	91
Trichloroethene	08/19/2013	11:55	70-125	11.0		10.0	110
Vinyl chloride	08/19/2013	11:55	50-145	11.4		10.0	114

Spike Recovery: 0 out of 38 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 342875 SDG No.: 99335

Analytical Method: EPA 8015C Concentration Units: ug/L

Sample No.: 342875 Parent Sample No.: 0

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

Analytical Run #: 96940 ICAL Calibration #: 8015p2w011413

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Gasoline Range Organics	08/21/2013	11:11	73-116	394		400	98

Spike Recovery: 0 out of 1 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 343270 SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: mg/L

Sample No.: 343270 Parent Sample No.: 0

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

Analytical Run #: 97040 ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1-Dichloroethene	08/23/2013	15:40	70-130	1.01		1.00	101
1,2-Dichloroethane	08/23/2013	15:40	70-130	1.01		1.00	101
2-Butanone	08/23/2013	15:40	30-150	9.04		10.0	90
Benzene	08/23/2013	15:40	80-120	1.07		1.00	107
Carbon tetrachloride	08/23/2013	15:40	65-140	0.886		1.00	89
Chlorobenzene	08/23/2013	15:40	80-120	1.00		1.00	100
Chloroform	08/23/2013	15:40	65-135	1.04		1.00	104
Tetrachloroethene	08/23/2013	15:40	45-150	1.09		1.00	109
Trichloroethene	08/23/2013	15:40	70-125	1.01		1.00	101
Vinyl chloride	08/23/2013	15:40	50-145	1.01		1.00	101

Spike Recovery: 0 out of 10 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

MRL

WATER VOLATILE METHOD REPORTING LIMIT

Lab Name: CT Laboratories Contract: ECC-RVAAP

Sample No.: 342858 SDG No.: 99335

Analytical Method: EPA 8015C Concentration Units: ug/L

Analytical Run #: 96940 Sample No.: 342858 Parent Sample No.: 0

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: 8015p2w011413

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Gasoline Range Organics	08/22/2013	02:04	70-130	97.8		100	98

Spike Recovery: 0 out of 1 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE METHOD REPORTING LIMIT

Sample Description: **MRL**

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Sample No.: 342863
SDG No.: 99335
Analytical Method: EPA 8015C
Concentration Units: ug/L

Analytical Run #: 96940
Sample No.: 342863
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
ICAL Calibration #: 8015p2w011413

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Gasoline Range Organics	08/21/2013	11:53	70-130	109		100	109

Spike Recovery: 0 out of 1 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE METHOD REPORTING LIMIT

MRL

Lab Name: CT Laboratories Contract: ECC-RVAAP

Sample No.: 344484 SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 97040 Sample No.: 344484 Parent Sample No.: 0

Analytical Prep Batch #: Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1-Dichloroethene	08/23/2013	16:09	70-130	0.000592		0.00050	118	
1,2-Dichloroethane	08/23/2013	16:09	70-130	0.000560		0.00050	112	
2-Butanone	08/23/2013	16:09	70-130	0.00499		0.00500	100	
Benzene	08/23/2013	16:09	70-130	0.000508		0.00050	102	
Carbon tetrachloride	08/23/2013	16:09	70-130	0.000382		0.00050	76	
Chlorobenzene	08/23/2013	16:09	70-130	0.000481		0.00050	96	
Chloroform	08/23/2013	16:09	70-130	0.000478		0.00050	96	
Tetrachloroethene	08/23/2013	16:09	70-130	0.000319		0.00050	64	*FAIL*
Trichloroethene	08/23/2013	16:09	70-130	0.000613		0.00050	123	
Vinyl chloride	08/23/2013	16:09	70-130	0.000455		0.00050	91	

Spike Recovery: 1 out of 10 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE METHOD REPORTING LIMIT

MRL

Lab Name: CT Laboratories Contract: ECC-RVAAP

Sample No.: 344485 SDG No.: 99335

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 97040 Sample No.: 344485 Parent Sample No.: 0

Analytical Prep Batch #: Analytical Preparation Date/Time:

ICAL Calibration #: W081813.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1-Dichloroethene	08/23/2013	19:05	70-130	0.000596		0.00050	119	
1,2-Dichloroethane	08/23/2013	19:05	70-130	0.000608		0.00050	122	
2-Butanone	08/23/2013	19:05	70-130	0.00499		0.00500	100	
Benzene	08/23/2013	19:05	70-130	0.000589		0.00050	118	
Carbon tetrachloride	08/23/2013	19:05	70-130	0.000193		0.00050	39	*FAIL*
Chlorobenzene	08/23/2013	19:05	70-130	0.000633		0.00050	127	
Chloroform	08/23/2013	19:05	70-130	0.000507		0.00050	101	
Tetrachloroethene	08/23/2013	19:05	70-130	0.000452		0.00050	90	
Trichloroethene	08/23/2013	19:05	70-130	0.000606		0.00050	121	
Vinyl chloride	08/23/2013	19:05	70-130	0.000453		0.00050	91	

Spike Recovery: 1 out of 10 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	340028	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	08/19/2013	Time Analyzed:	12:25
Analytical Method:	EPA 8260C	Extraction Method:	NONE
Analytical Run #:	96835	Extraction Batch #:	0
		ICAL Calibration #:	W081813.

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	BFB	340027	08/19/2013 11:11
2	CCV	340023	08/19/2013 11:55
3	LCSW	340024	08/19/2013 11:55
4	MBW	340028	08/19/2013 12:25
5	083SB-0024-0001-TB	339581	08/19/2013 19:19
6	083SB-0023-0001-ER	339561	08/19/2013 19:48
7	083SB-0023-0001-ERMSW	340195	08/19/2013 21:16
8	083SB-0023-0001-ERMSDW	340715	08/19/2013 21:46

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	342876	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	08/21/2013	Time Analyzed:	12:35
Analytical Method:	EPA 8015C	Extraction Method:	NONE
Analytical Run #:	96940	Extraction Batch #:	0
		ICAL Calibration #:	

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	CCV	342871	08/21/2013 10:28
2	LCSW	342875	08/21/2013 11:11
3	MRLW	342863	08/21/2013 11:53
4	MBW	342876	08/21/2013 12:35
5	083SB-0023-0001-ER	339561	08/21/2013 13:18
6	CCV	342873	08/21/2013 21:49
7	CCB	342874	08/21/2013 22:32
8	MRLW	342858	08/22/2013 02:04
9	MDLW	342856	08/22/2013 02:47
10	CCV	342872	08/22/2013 04:13

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	343278	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	08/23/2013	Time Analyzed:	16:39
Analytical Method:	EPA 8260C	Extraction Method:	NONE
Analytical Run #:	97040	Extraction Batch #:	0
		ICAL Calibration #:	W081813.

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	BFB	343269	08/23/2013 14:31
2	CCV	343260	08/23/2013 15:10
3	LCSW	343270	08/23/2013 15:40
4	MRLW	344484	08/23/2013 16:09
5	MBW	343278	08/23/2013 16:39
6	083SB-0022-0001-IDW	339578	08/23/2013 17:08
7	083SB-0021-0001-IDW	339580	08/23/2013 17:37
8	083SB-0022-0001-IDWMSW	343276	08/23/2013 18:07
9	083SB-0022-0001-IDWMSDW	343277	08/23/2013 18:36
10	MRLW	344485	08/23/2013 19:05
11	MDLW	344486	08/23/2013 19:34

BFB

Data File : C:\Instarch\VMS3\Data\AUG1813\BFB1.D Vial: 1
Acq On : 18 Aug 2013 8:20 Operator: RLD-BMS
Sample : BFB INJECTION Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.348 to 4.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	17655	PASS
75	95	30	60	50.3	37192	PASS
95	95	100	100	100.0	73896	PASS
96	95	5	9	7.7	5658	PASS
173	174	0.00	2	0.2	104	PASS
174	95	50	100	79.6	58824	PASS
175	174	5	9	5.3	3093	PASS
176	174	95	101	97.4	57267	PASS
177	176	5	9	6.7	3844	PASS

W081813.M Tue Aug 20 14:40:22 2013

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\VMS3\DATA\AUG1813\BFB1.D
Injection Date : 18 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 08:20 Total files within period : 16
Sample Directory : C:\INSTARCH\VMS3\DATA\AUG1813\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CALW1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.5/5.00 ug/L, 5.0 m	18 Aug 2013	10:05
CALW2	1.00	1.00	1.00	INITIAL CALIB. PT2 2.0/20.0 ug/L, 5.0 m	18 Aug 2013	10:35
CALW3	1.00	1.00	1.00	INITIAL CALIB. PT3 5.0/50.0 ug/L, 5.0 m	18 Aug 2013	11:04
CALW4	1.00	1.00	1.00	INITIAL CALIB. PT4 10.0/100.0 ug/L, 5.0	18 Aug 2013	11:34
CALW5	1.00	1.00	1.00	INITIAL CALIB. PT5 20.0/200.0 ug/L, 5.0	18 Aug 2013	12:03
CALW6	1.00	1.00	1.00	INITIAL CALIB. PT6 30.0/300.0 ug/L, 5.0	18 Aug 2013	12:33
CALW7	1.00	1.00	1.00	INITIAL CALIB. PT7 40.0/400.0 ug/L, 5.0	18 Aug 2013	13:03
CALW8	1.00	1.00	1.00	INITIAL CALIB. PT8 80.0/800.0 ug/L, 5.0	18 Aug 2013	13:32
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100.0 ug/L, 5.0	18 Aug 2013	14:32
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300.0 ug/L, 5.0	18 Aug 2013	15:01
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.0 mL DI H20 Purged	18 Aug 2013	15:59

BFB

Data File : C:\Instarch\VMS3\Data\AUG1913\BFB1.D Vial: 1
Acq On : 19 Aug 2013 11:11 Operator: RLD-BMS
Sample : 96833,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.354 to 4.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	24019	PASS
75	95	30	60	51.6	51565	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.6	6606	PASS
173	174	0.00	2	0.9	748	PASS
174	95	50	100	83.6	83599	PASS
175	174	5	9	8.3	6958	PASS
176	174	95	101	95.8	80063	PASS
177	176	5	9	6.8	5484	PASS

W081813.M Tue Aug 20 14:15:29 2013

Injection Log Summary Report

Method : C:\INSTARCH\VMS3\METHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\VMS3\DATA\AUG1913\BFB1.D
Injection Date : 19 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 11:11 Total files within period : 22
Sample Directory : C:\INSTARCH\VMS3\DATA\AUG1913\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	19 Aug 2013	11:25
CCV-LCS1	1.00	1.00	1.00	96833,LCSW, 10.0/100.0 ug/L, 5.0 mL P	19 Aug 2013	11:55
MB1	1.00	1.00	1.00	96833,MBW, pH<2, 5.0 mL DI H20 Purge	19 Aug 2013	12:25
339581	1.00	1.00	1.00	96835,339581, pH<2, 5.0 mL Purged + IST	19 Aug 2013	19:19
339561	1.00	1.00	1.00	96835,339561, pH<2, 5.0 mL Purged + IST	19 Aug 2013	19:48
339561MS	1.00	1.00	1.00	96835,MSW339561, pH<2, 10.0/100.0 ug/L, 5.	19 Aug 2013	21:16
339561SD	1.00	1.00	1.00	96835,MSDW339561, pH<2, 10.0/100.0 ug/L, 5.	19 Aug 2013	21:46

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): CALW4.D Date Analyzed : 18 Aug 2013
Instrument ID : VMS3 Time Analyzed : 11:34
GC Column : SPB-624 ID : VMS3(mm) Heated Purge (Y:N) : N

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1526169	7.48	1073010	11.40	632357	14.70
UPPER LIMIT	3052338	7.98	2146020	11.90	1264714	15.20
LOWER LIMIT	763085	6.98	536505	10.90	316179	14.20
File ID Sample						
339561 96835,339	1324565	7.48	908032	11.39	519799	14.70
339561MS 96835,MSW	1398022	7.49	995357	11.39	575865	14.70
339561SD 96835,MSD	1417442	7.48	981861	11.39	576553	14.70
339581 96835,339	1357096	7.48	938572	11.39	545945	14.70
CCV-LCS1 96833,LCS	1595510	7.48	1113063	11.39	665138	14.70
MB1 96833,MBW	1466730	7.48	1024487	11.39	583051	14.70

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

BFB

Data File : C:\Instarch\VMS3\Data\AUG2313B\BFB1.D Vial: 1
Acq On : 23 Aug 2013 14:31 Operator: RLD-BMS
Sample : 97040,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.360 to 4.367 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.6	25608	PASS
75	95	30	60	50.6	50615	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	5.3	5322	PASS
173	174	0.00	2	0.7	600	PASS
174	95	50	100	80.1	80096	PASS
175	174	5	9	5.0	4032	PASS
176	174	95	101	100.8	80722	PASS
177	176	5	9	5.6	4518	PASS

W081813.M Mon Aug 26 12:45:56 2013

Injection Log Summary Report

Method : C:\INSTARCH\VMS3\METHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\VMS3\DATA\AUG2313B\BFB1.D
Injection Date : 23 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 14:31 Total files within period : 10
Sample Directory : C:\INSTARCH\VMS3\DATA\AUG2313B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV1	1.00	1.00	1.00	97040,CCV, 10.0/100.0 ug/L, 5.0 mL P	23 Aug 2013	15:10
TLCS1	1.00	1.00	1.00	97040,LCSW,100 pH5, 10.0/100.0 ug/L, 5.0	23 Aug 2013	15:40
MRL1	1.00	1.00	1.00	97040,MRLW, pH5, 0.5/5.0 ug/L, 5.0 mL	23 Aug 2013	16:09
TMB1	1.00	1.00	1.00	97040,MBW,100 pH5, 5.0 mL Purged + ISTD	23 Aug 2013	16:39
339578	1.00	1.00	1.00	97040,339578,100 pH6, 5.0 mL Purged + ISTD	23 Aug 2013	17:08
339580	1.00	1.00	1.00	97040,339580,100 pH<2, 5.0 mL Purged + IST	23 Aug 2013	17:37
339578MS	1.00	1.00	1.00	97040,MSW339578,100 pH6, 10.0/100.0 ug/L, 5.0	23 Aug 2013	18:07
339578SD	1.00	1.00	1.00	97040,MSDW339578,100 pH6, 10.0/100.0 ug/L, 5.0	23 Aug 2013	18:36
MRL2	1.00	1.00	1.00	97040,MRLW, pH5, 0.50/5.0 ug/L, 5.0 m	23 Aug 2013	19:05
MDL1	1.00	1.00	1.00	97040,MDLW, pH5, 0.25/2.5 ug/L, 5.0 m	23 Aug 2013	19:34

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): CALW4.D Date Analyzed : 18 Aug 2013
Instrument ID : VMS3 Time Analyzed : 11:34
GC Column : SPB-624 ID : VMS3(mm) Heated Purge (Y:N) : N

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1526169	7.48	1073010	11.40	632357	14.70
UPPER LIMIT	3052338	7.98	2146020	11.90	1264714	15.20
LOWER LIMIT	763085	6.98	536505	10.90	316179	14.20
File ID Sample						
339578 97040,339	1405942	7.48	968491	11.39	561862	14.70
339578MS 97040,MSW	1422738	7.48	1014403	11.39	603896	14.69
339578SD 97040,MSD	1414174	7.48	993667	11.39	569291	14.70
339580 97040,339	1383942	7.48	959600	11.39	566901	14.70
CCV1 97040,CCV	1535989	7.48	1056651	11.39	614122	14.70
MDL1 97040,MDL	1388506	7.48	966746	11.39	547354	14.70
MRL1 97040,MRL	1406370	7.48	984753	11.39	564636	14.70
MRL2 97040,MRL	1374733	7.48	980282	11.39	560473	14.70
TLCS1 97040,LCS	1495312	7.48	1035727	11.39	634594	14.70
TMB1 97040,MBW	1386117	7.48	993533	11.39	543186	14.70

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339581.D Vial: 18
Acq On : 19 Aug 2013 19:19 Operator: RLD-BMS
Sample : 96835,339581, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 19:39:47 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1357096	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	938572	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	545945	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	290545	17.567	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 92 %			
45) SURR12DCAd4	7.12	102	81726	17.919	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 94 %			
61) SURRd8Tolule	9.45	98	1357305	17.641	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 93 %			
83) SURR4BrFBenz	13.04	95	533997	18.692	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	1.91	50	1373	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.57	94	1202	N.D.		
6) Chloroethane	2.60	64	1369	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	3.89	43	15773	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.00	76	5429	N.D.		
18) allylchloride	4.37	41	1131	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.46	84	22297	1.2583	ug/L #	86
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.44	42	1718	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339581.D Vial: 18
Acq On : 19 Aug 2013 19:19 Operator: RLD-BMS
Sample : 96835,339581, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 19:39:47 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.70	56	1877	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.45	43	5443	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.39	91	1761	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	11.41	91	1142	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.04	55	1343	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	75	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	13.61	105	1316	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339581.D Vial: 18
Acq On : 19 Aug 2013 19:19 Operator: RLD-BMS
Sample : 96835,339581, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 19:39:47 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

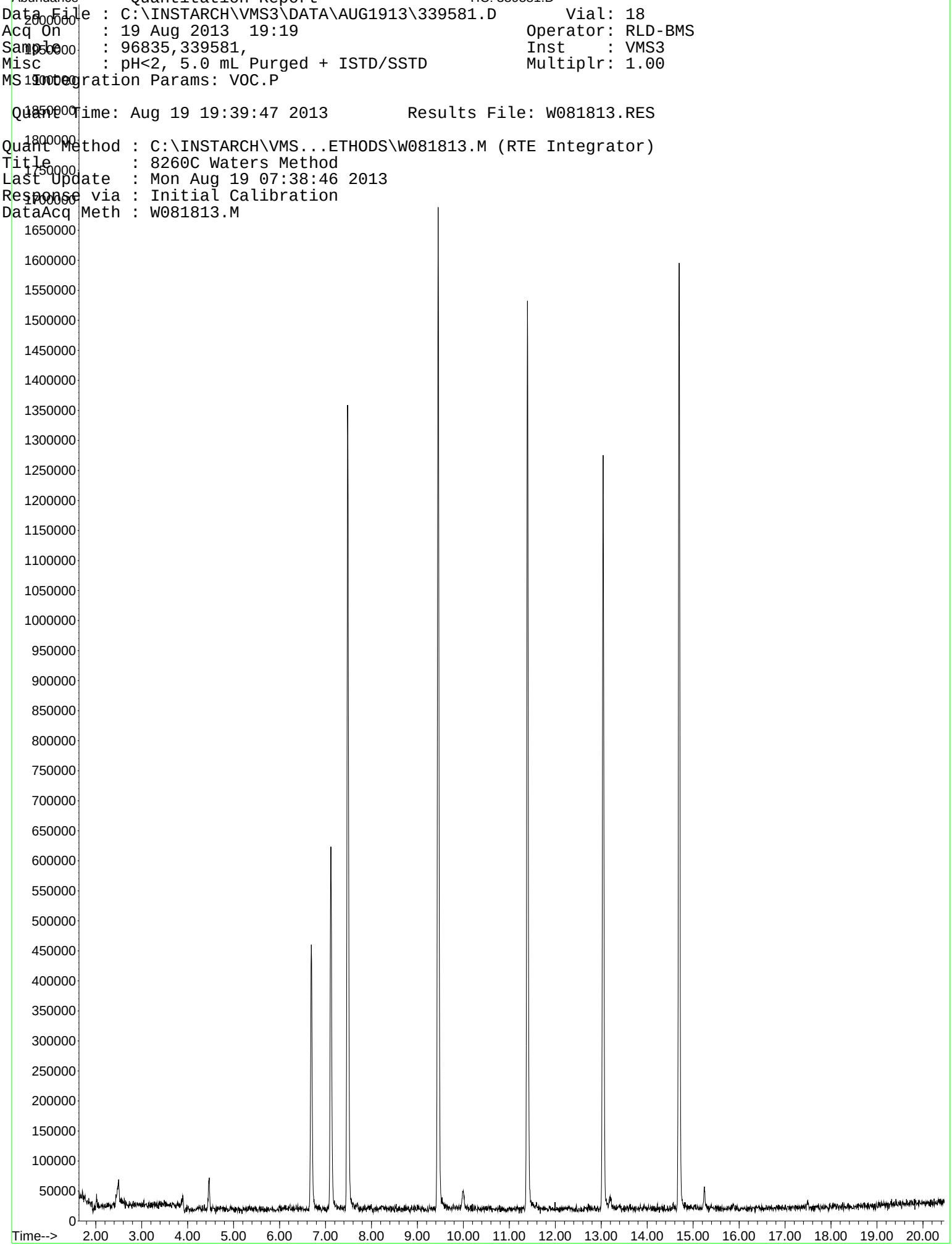
(#) = qualifier out of range (m) = manual integration

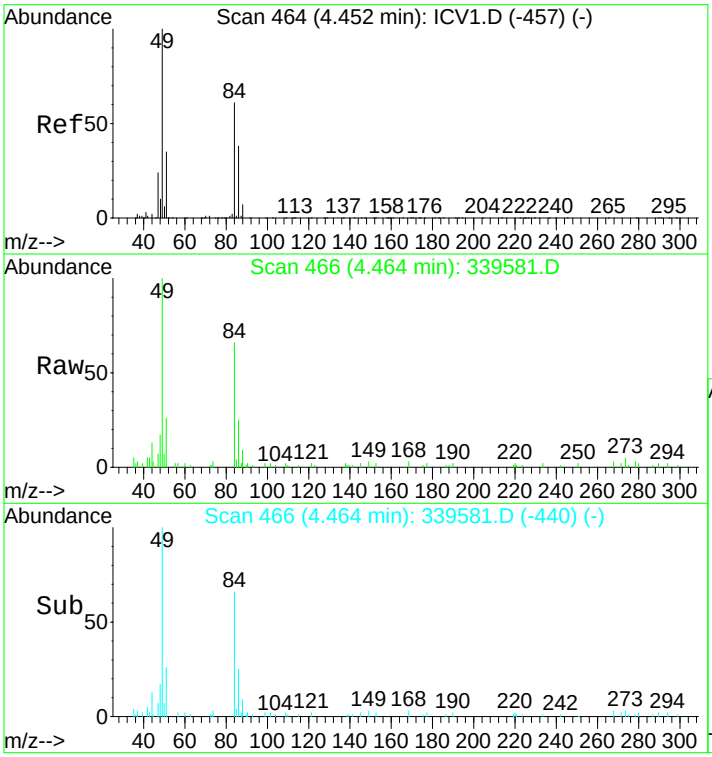
Abundance Quantitation Report TIC: 339581.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339581.D Vial: 18
Acq On : 19 Aug 2013 19:19 Operator: RLD-BMS
Sample : 96835,339581, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 19:39:47 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

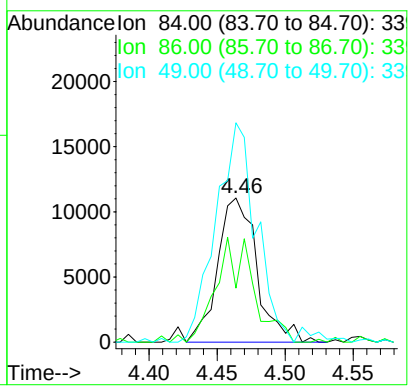




#20
Methylchlorid
Concen: 1.26 ug/L
RT: 4.46 min Scan# 466
Delta R.T. 0.01 min
Lab File: 339581.D
Acq: 19 Aug 2013 19:19

Tgt Ion: 84 Resp: 22297

Ion	Ratio	Lower	Upper
84	100		
86	68.5	46.3	86.3
49	154.8	159.8	199.8#



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561.D Vial: 19
Acq On : 19 Aug 2013 19:48 Operator: RLD-BMS
Sample : 96835,339561, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 20:09:10 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1324565	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	908032	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	519799	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	290249	17.980	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 95 %			
45) SURR12DCAd4	7.12	102	87420	19.639	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 103 %			
61) SURRd8Tolule	9.45	98	1312561	17.478	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 92 %			
83) SURR4BrFBenz	13.04	95	514500	18.915	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 100 %			

Target Compounds				Qvalue
2) Dichlorodi	0.00	85	0	N.D.
3) Chloromethan	1.93	50	4095	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	2.52	94	1240	N.D.
6) Chloroethane	0.00	64	0	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	0.00	59	0	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	0.00	56	0	N.D.
13) 11dichlorthe	0.00	96	0	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	3.89	43	7467	N.D.
16) Iodomethane	0.00	142	0	N.D.
17) Carbon Dislf	4.00	76	7233	N.D.
18) allylchloride	4.34	41	1275	N.D.
19) methylacetate	0.00	74	0	N.D.
20) Methylchlorid	0.00	84	0	N.D.
21) tbutylalcohol	4.70	59	1456	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	0.00	73	0	N.D.
25) Hexane	5.07	57	1093	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	0.00	43	0	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	0.00	59	0	N.D.
31) 22dichloropr	6.10	77	4871	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	6.45	42	1079	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561.D Vial: 19
Acq On : 19 Aug 2013 19:48 Operator: RLD-BMS
Sample : 96835,339561, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 20:09:10 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.49	83	11300	0.3658	ug/L	90
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	7.12	62	1223	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	0.00	95	0	N.D.		
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	8.59	83	1295	N.D.		
57)	2Nitropropane	8.83	43	1230	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	9.45	43	6052	N.D.		
62)	Toluene	9.54	92	1144	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.40	91	2443	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	11.55	91	1346	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	13.05	55	1991	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	75	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	14.69	146	1087	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	14.72	146	1233	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561.D Vial: 19
Acq On : 19 Aug 2013 19:48 Operator: RLD-BMS
Sample : 96835,339561, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 20:09:10 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

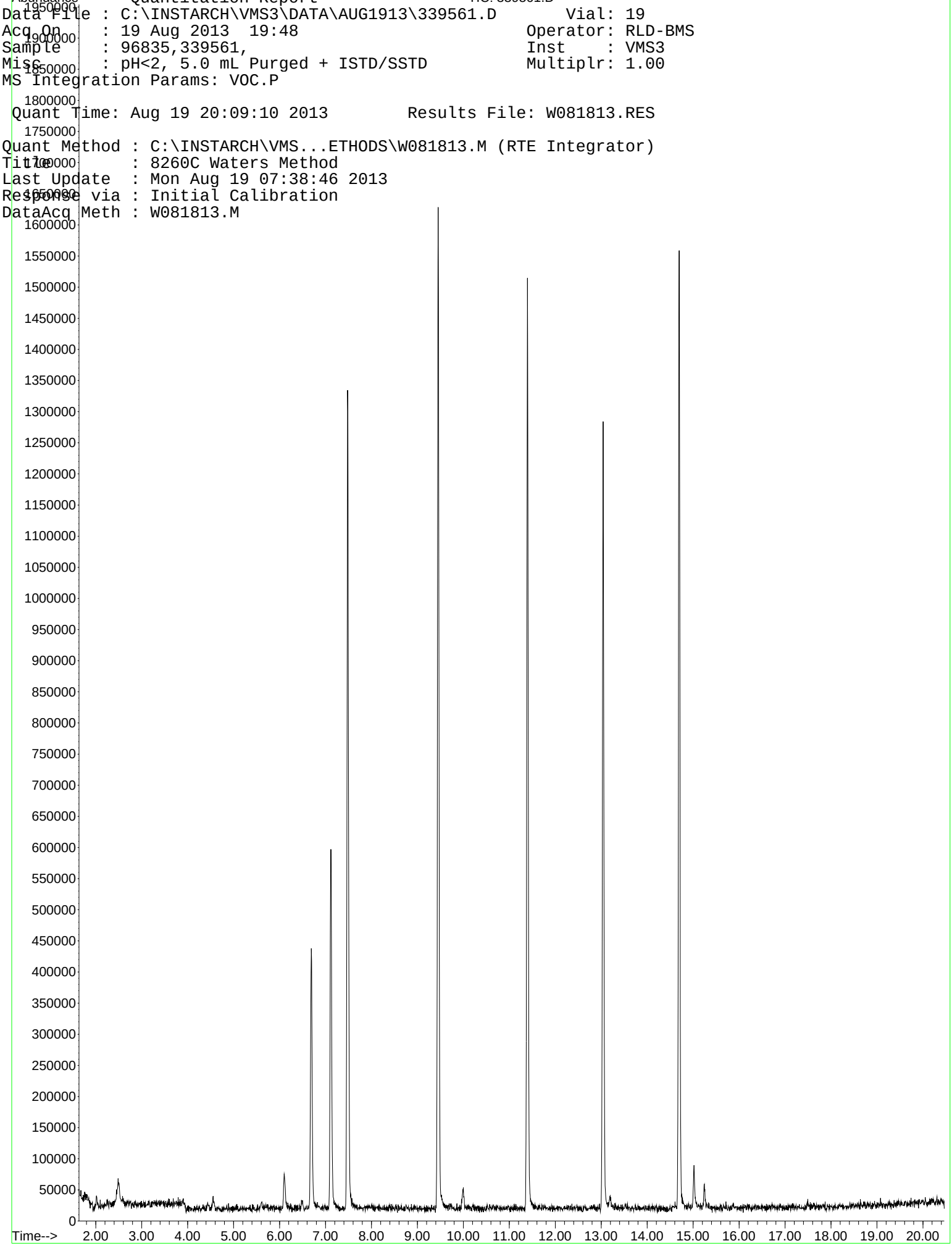
(#) = qualifier out of range (m) = manual integration
339561.D W081813.M Tue Aug 20 14:19:54 2013 Page 67 Page 3

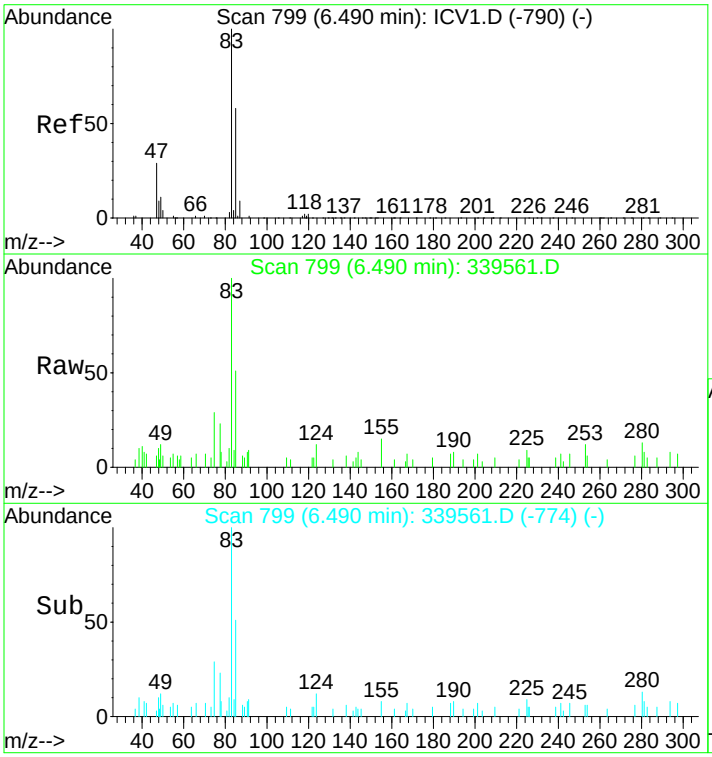
Quantitation Report (TIC: 339561.D)

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561.D Vial: 19
Acq On : 19 Aug 2013 19:48 Operator: RLD-BMS
Sample : 96835,339561, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 20:09:10 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

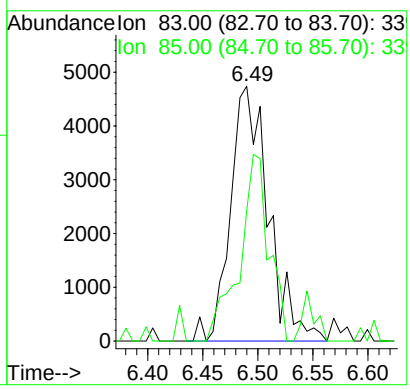




#39
Chloroform
Concen: 0.37 ug/L
RT: 6.49 min Scan# 799
Delta R.T. 0.00 min
Lab File: 339561.D
Acq: 19 Aug 2013 19:48

Tgt Ion: 83 Resp: 11300

Ion	Ratio	Lower	Upper
83	100		
85	57.0	44.5	84.5



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578.D Vial: 6
Acq On : 23 Aug 2013 17:08 Operator: RLD-BMS
Sample : 97040,339578,100 Inst : VMS3
Misc : pH6, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:28:56 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1405942	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	968491	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	561862	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	311559	18.183	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 96 %			
45) SURR12DCAd4	7.12	102	88403	18.710	ug/L	0.01
Spiked Amount 19.000	Range 89 - 112		Recovery = 98 %			
61) SURRd8Tolule	9.45	98	1403506	17.607	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 93 %			
83) SURR4BrFBenz	13.04	95	570300	19.397	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 102 %			

Target Compounds				Qvalue
2) Dichlorodi	0.00	85	0	N.D.
3) Chloromethan	0.00	50	0	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	2.62	94	1045	N.D.
6) Chloroethane	0.00	64	0	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	3.45	59	1750	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	0.00	56	0	N.D.
13) 11dichlorthe	0.00	96	0	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	3.88	43	8404	N.D.
16) Iodomethane	3.95	142	1875	N.D.
17) Carbon Dislf	3.98	76	5824	N.D.
18) allylchloride	4.32	41	1198	N.D.
19) methylacetate	4.32	74	1637	N.D.
20) Methylchlorid	4.46	84	6263	N.D.
21) tbutylalcohol	0.00	59	0	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	4.76	73	1845	N.D.
25) Hexane	0.00	57	0	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	0.00	43	0	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	0.00	59	0	N.D.
31) 22dichloropr	0.00	77	0	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	6.41	42	2235	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578.D Vial: 6
Acq On : 23 Aug 2013 17:08 Operator: RLD-BMS
Sample : 97040,339578,100 Inst : VMS3
Misc : pH6, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:28:56 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.67	56	1359	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.44	43	5697	N.D.	
62)	Toluene	9.54	92	1164	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.39	91	2928	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.04	55	2836	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.22	75	1228	N.D.	
87)	14dichloro2butene	13.22	75	1228	N.D.	
88)	n-Propylbenz	13.35	91	1058	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578.D Vial: 6
Acq On : 23 Aug 2013 17:08 Operator: RLD-BMS
Sample : 97040,339578,100 Inst : VMS3
Misc : pH6, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:28:56 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	17.82	128	1413	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

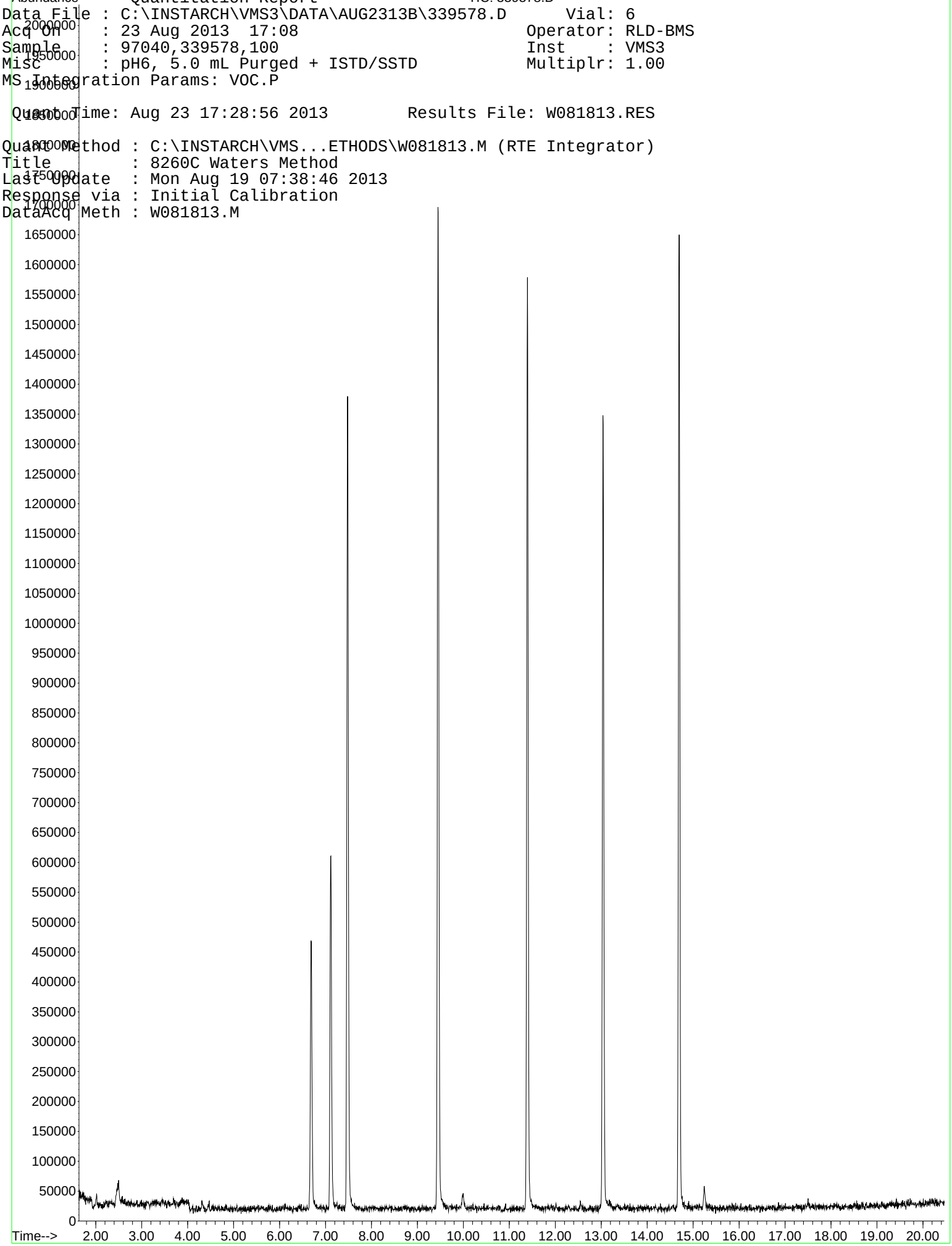
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 339578.D

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578.D Vial: 6
Acq On : 23 Aug 2013 17:08 Operator: RLD-BMS
Sample : 97040,339578,100 Inst : VMS3
Misc : pH6, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:28:56 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339580.D Vial: 7
Acq On : 23 Aug 2013 17:37 Operator: RLD-BMS
Sample : 97040,339580,100 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:58:16 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1383942	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	959600	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	566901	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	307455	18.229	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 96 %			
45) SURR12DCAd4	7.12	102	87499	18.813	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 99 %			
61) SURRd8Tolule	9.45	98	1360742	17.342	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 91 %			
83) SURR4BrFBenz	13.04	95	558138	18.814	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 99 %			

Target Compounds				Qvalue
2) Dichlorodi	0.00	85	0	N.D.
3) Chloromethan	0.00	50	0	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	0.00	94	0	N.D.
6) Chloroethane	2.63	64	1054	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	3.45	59	2231	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	0.00	56	0	N.D.
13) 11dichlorthe	0.00	96	0	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	3.89	43	8371	N.D.
16) Iodomethane	3.94	142	1142	N.D.
17) Carbon Dislf	4.01	76	7724	N.D.
18) allylchloride	0.00	41	0	N.D.
19) methylacetate	0.00	74	0	N.D.
20) Methylchlorid	4.45	84	4102	N.D.
21) tbutylalcohol	4.66	59	1337	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	0.00	73	0	N.D.
25) Hexane	0.00	57	0	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	0.00	43	0	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	5.84	59	1846	N.D.
31) 22dichloropr	0.00	77	0	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	6.44	42	5823	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339580.D Vial: 7
Acq On : 23 Aug 2013 17:37 Operator: RLD-BMS
Sample : 97040,339580,100 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:58:16 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	7.23	62	1286	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.44	43	5398	N.D.	
62)	Toluene	9.53	92	1709	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.40	91	2253	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.05	55	1690	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	75	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	14.59	119	1156	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339580.D Vial: 7
Acq On : 23 Aug 2013 17:37 Operator: RLD-BMS
Sample : 97040,339580,100 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:58:16 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	17.84	128	1002	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

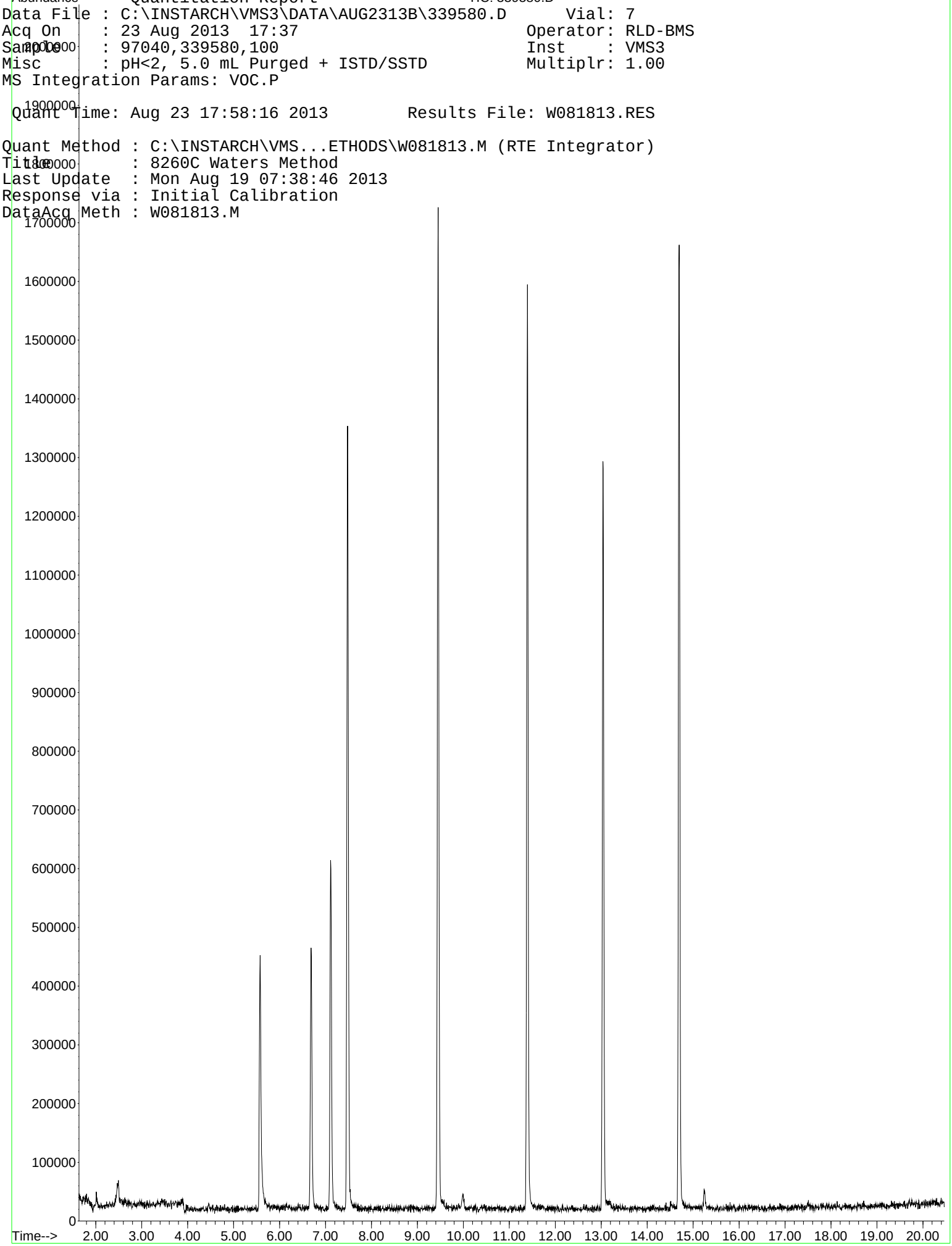
(#) = qualifier out of range (m) = manual integration
339580.D W081813.M Mon Aug 26 12:48:45 2013 Page 76 Page 3

Abundance Quantitation Report TIC: 339580.D

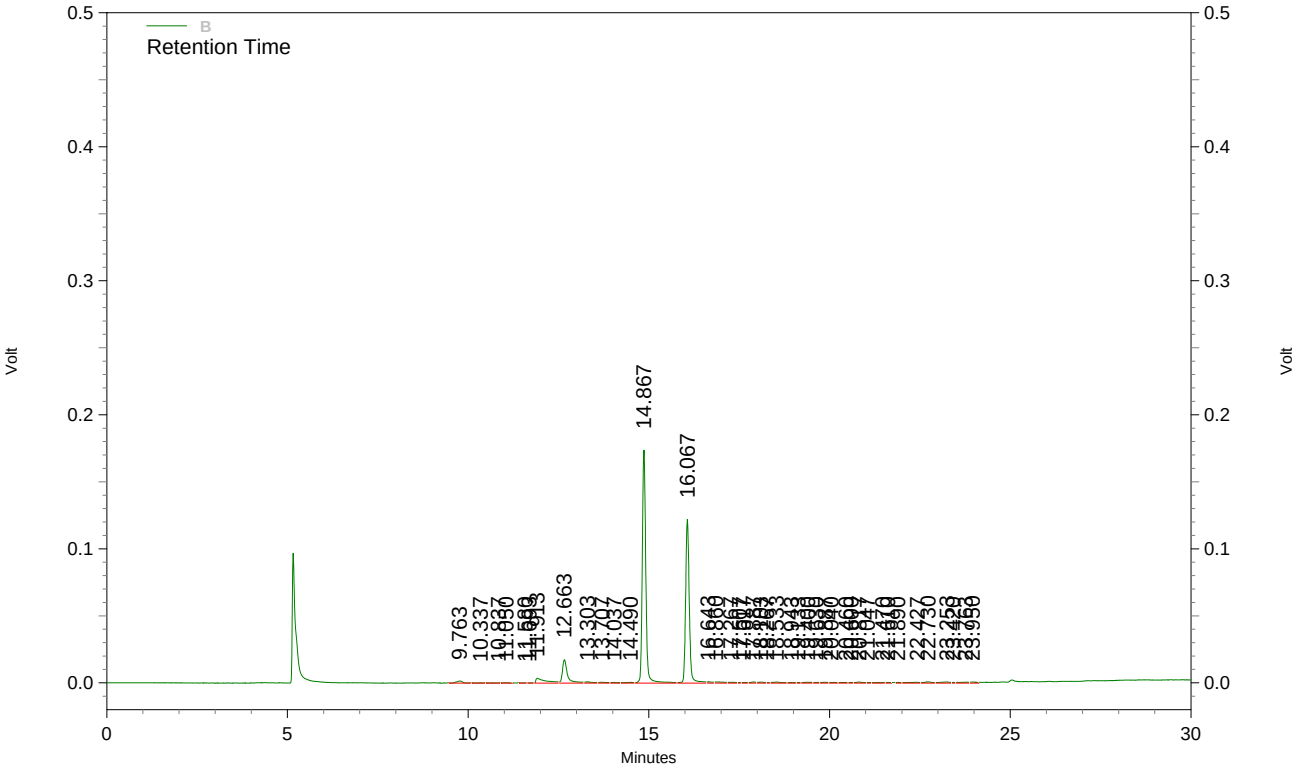
Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339580.D Vial: 7
Acq On : 23 Aug 2013 17:37 Operator: RLD-BMS
Sample : 97040,339580,100 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 17:58:16 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\007.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 13:18:24
Sample ID : 96940,339561,1,pH<2
File Desc. : 08/21/13
5.0 mL PURGED + ISTD/SSTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	862995	103.929	16.067
GRO	1767488	25.516	

VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Method Path : C:\INSTARCH\VMS3\METHODS\
Method File : W081813.M
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response Via : Initial Calibration

RJ 08/20/2013

Calibration Files ug/L
1 0.50/5.00 =CALW1.D 2 2.00/20.00 =CALW2.D 3 5.00/50.00 =CALW3.D
4 10.00/100 =CALW4.D 5 20.00/200 =CALW5.D 6 30.00/300 =CALW6.D
7 40.00/400 =CALW7.D 8 80.00/800 =CALW8.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------									
2)	PT	Dichlorodi	0.226	0.302	0.359	0.375	0.353	0.346	0.346	0.325	14.92	
			0.296									
3)	PT	Chloromethan	0.373	0.382	0.403	0.413	0.373	0.376	0.361	0.372	9.12	
			0.300									
4)	PT	VinylChlorid	0.246	0.335	0.338	0.364	0.349	0.339	0.332	0.325	11.50	
			0.295									
5)	PT	Bromomethane	0.123	0.086	0.111	0.104	0.083	0.097	0.101	0.100	13.09	
			0.095									
6)	PT	Chloroethane	0.172	0.178	0.185	0.172	0.180	0.180	0.172	0.175	4.66	
			0.158									
7)	T	Dichloroflmetha	0.476	0.509	0.549	0.556	0.526	0.523	0.495	0.509	7.77	
			0.436									
8)	PT	Trichlorofma	0.282	0.319	0.406	0.443	0.408	0.410	0.398	0.378	14.26	
			0.361									
9)	T	Ethylether	0.370	0.244	0.231	0.241	0.229	0.222	0.220	-----		
			0.203									
									QO A= -0.009 R=1.000			
									B= 0.237			
10)	T	dichlorotfluoro	0.141	0.265	0.280	0.315	0.287	0.293	0.286	-----		
			0.266									
									QO A= -0.010 R=1.000			
									B= 0.305			
11)	T	propyleneoxide	0.051	0.049	0.052	0.054	0.052	0.053	0.052	0.051	6.50	
			0.044									
12)	T	Acrolein	0.066	0.071	0.063	0.064	0.060	0.061	0.057	0.062	7.88	
			0.055									
13)	PT	11dichlorthe	0.162	0.172	0.198	0.215	0.210	0.212	0.206	0.195	10.05	
			0.189									
14)	PT	Trichlorotfluor	0.157	0.165	0.188	0.202	0.196	0.196	0.191	0.184	8.85	
			0.174									
15)	PT	Acetone	0.163	0.155	0.146	0.130	0.126	0.105	0.108	-----		
									QO A= -0.001 R=0.995			
									B= 0.135			
16)	T	Iodomethane	0.070	0.084	0.119	0.140	0.155	0.175	0.188	-----		
			0.157									
									QO A= -0.003 R=0.995			
									B= 0.185			
17)	PT	Carbon Dislf	0.373	0.356	0.425	0.477	0.409	0.444	0.450	0.410	11.80	
			0.342									
18)	T	allylchloride	0.286	0.394	0.399	0.410	0.375	0.384	0.368	0.363	13.68	
			0.284									
19)	PT	methylacetate	0.230	0.217	0.245	0.238	0.214	0.229	0.234	0.227	5.16	
			0.213									
20)	PT	Methylchlorid	0.322	0.289	0.262	0.254	0.249	0.243	0.243	0.261	11.71	
			0.226									
21)	T	tbutylalcohol	0.038	0.038	0.039	0.041	0.036	0.036	0.033	0.036	14.67	
			0.024									
22)	T	Acrylonitrile	0.151	0.172	0.163	0.170	0.153	0.158	0.155	0.157	7.96	
			0.133									
23)	PT	t12dichlorte	0.192	0.249	0.268	0.277	0.271	0.277	0.267	0.257	10.84	

0.255
24) PT MtBE 0.770 0.693 0.753 0.699 0.684 0.708 0.691 0.701 6.74
0.614
25) T Hexane 0.363 0.503 0.539 0.591 0.536 0.525 0.500 -----
0.405
QO A= -0.023 R=1.000
B= 0.593
26) PT 11dichlorota 0.556 0.550 0.565 0.611 0.573 0.574 0.555 0.561 5.32
0.504
27) T Vinylacetate 0.461 0.570 0.562 0.512 0.402 0.352 0.304 -----
QO A= -0.012 R=0.998
B= 0.533
28) T chloroprene 0.511 0.587 0.632 0.653 0.637 0.641 0.618 0.596 10.59
0.487
29) T Diisopether 1.052 1.129 1.148 1.139 1.064 1.059 1.038 1.063 8.28
0.873
30) T ETBE 0.845 0.914 0.933 0.911 0.878 0.897 0.857 0.874 6.40
0.757
31) T 22dichloropr 0.248 0.329 0.345 0.369 0.364 0.372 0.370 0.345 12.09
0.362
32) PT c12dichlorte 0.325 0.276 0.267 0.309 0.294 0.303 0.305 0.297 6.17
0.295
33) PT 2Butanone 0.030 0.040 0.047 0.047 0.045 0.046 0.047 0.043# 13.59
0.045
34) T propionitrile 0.046 0.059 0.066 0.069 0.065 0.068 0.068 0.063 12.30
0.061
35) T Ethylacetate 0.004 0.008 0.012 0.013 0.012 0.013 0.014 ----- #
0.015
QO A= 0.000 R=0.999
B= 0.012
36) T methacrylonitri 0.144 0.130 0.130 0.148 0.149 0.160 0.164 0.149 9.38
0.166
37) T Bromochlorma 0.129 0.127 0.114 0.121 0.106 0.115 0.116 0.118 6.55
0.112
38) T Tetrahydofur 0.133 0.143 0.148 0.149 0.130 0.131 0.124 0.132 12.34
0.099
39) PT Chloroform 0.434 0.436 0.468 0.485 0.473 0.487 0.481 0.466 4.49
0.468
40) PT 111trichlota 0.303 0.349 0.391 0.437 0.438 0.463 0.462 0.409 14.03
0.433
41) S SURRDibrflma 0.222 0.241 0.233 0.246 0.244 0.247 0.255 0.244 5.07
0.262
42) PT Cyclohexane 0.410 0.512 0.624 0.703 0.672 0.672 0.655 -----
0.586
QO A= -0.032 R=1.000
B= 0.716
43) PT Carbtetraclo 0.167 0.224 0.267 0.317 0.319 0.345 0.341 -----
0.332
QO A= -0.001 R=0.999
B= 0.338
44) T 11dicloprope 0.137 0.110 0.127 0.136 0.134 0.140 0.133 0.131 7.26
0.136
45) S SURR12DCAd4 0.068 0.066 0.064 0.068 0.066 0.067 0.071 0.067 3.28
0.067
46) PT Benzene 1.068 1.011 1.044 1.112 1.008 1.007 0.961 1.003 8.90
0.813
47) PT 12dichlorota 0.439 0.448 0.502 0.493 0.479 0.479 0.463 0.466 6.05
0.421
48) T TAME 0.547 0.606 0.611 0.612 0.594 0.627 0.627 0.602 4.26
0.593
49) PT trichloroete 0.218 0.296 0.289 0.296 0.284 0.295 0.292 0.280 9.45
0.271
50) PT methylcyclohexa 0.159 0.403 0.484 0.566 0.536 0.540 0.521 -----
0.483
QO A= -0.020 R=1.000
B= 0.562
51) PT 12dicloropra 0.251 0.309 0.326 0.322 0.328 0.324 0.334 0.315 8.56
0.325
52) T 23Dicl1propene 0.394 0.369 0.364 0.408 0.398 0.431 0.423 0.398 5.87

```
                    0.398
53) T   Dibromometha    0.175 0.183 0.163 0.170 0.162 0.175 0.173 0.173   4.67
                    0.184
54) T   methylmethacryl 0.032 0.193 0.224 0.212 0.229 0.236 0.247 -----
                    0.248
                                                    QO A=  0.004 R=1.000
                                                       B=  0.232
55) T   14dioxane       0.002 0.002 0.002 0.003 0.003 0.003 0.003 0.003# 14.86
                    0.003
56) PT  Bromodiclrma    0.214 0.293 0.290 0.334 0.329 0.346 0.354 0.312  14.76
                    0.338
57) T   2Nitropropane   0.057 0.071 0.086 0.108 0.179 0.186 0.179 -----
                    0.143
                                                    QO A= -0.001 R=0.993
                                                       B=  0.197
58) T   2CLEVE          0.148 0.198 0.219 0.222 0.211 0.212 0.206 0.198  13.34
                    0.167
59) PT  c13dicloproe    0.309 0.334 0.359 0.415 0.417 0.440 0.434 0.391  12.63
                    0.416
60) PT  4Meth2Pentan    0.410 0.429 0.418 0.404 0.328 0.292 0.255 -----

                                                    QO A= -0.008 R=0.999
                                                       B=  0.420
61) S   SURRd8Tolule    1.054 1.070 1.059 1.093 1.083 1.158 1.204 1.134   8.97
                    1.350
62) PT  Toluene         0.572 0.765 0.760 0.781 0.757 0.768 0.753 0.735   9.22
                    0.724
63) PT  t13Dicloprop    0.173 0.226 0.289 0.320 0.357 0.379 0.382 -----
                    0.380
                                                    QO A=  0.004 R=0.999
                                                       B=  0.367
64) T   ethylmethacryla 0.314 0.368 0.387 0.395 0.392 0.404 0.405 0.378   8.03
                    0.359
65) PT  112Triclotha    0.143 0.208 0.223 0.204 0.195 0.210 0.213 0.201  12.35
                    0.213
66) PT  Tetrachlorte    0.191 0.255 0.266 0.303 0.302 0.303 0.304 0.277  14.26
                    0.290
67) T   13Diclorpropa   0.378 0.433 0.424 0.437 0.428 0.441 0.430 0.422   4.99
                    0.404

68) I   d5-CHLOROBENZENE**IST ----------------ISTD--------------------
69) PT  2Hexanone       0.426 0.449 0.475 0.444 0.398 0.344 0.309 0.406  14.80

70) PT  Clorodibrmta    0.250 0.233 0.265 0.293 0.333 0.347 0.368 -----
                    0.380
                                                    QO A=  0.013 R=0.999
                                                       B=  0.330
71) PT  12Dibrometha    0.308 0.336 0.311 0.332 0.353 0.359 0.356 0.338   5.85
                    0.346
72) PT  Chlorobenzen    0.944 0.994 1.029 0.977 1.012 0.980 0.970 0.968   6.02
                    0.839
73) T   1Clhexane       0.523 0.485 0.560 0.616 0.627 0.608 0.600 0.569   9.03
                    0.534
74) T   1112Tetclota    0.205 0.263 0.299 0.315 0.341 0.348 0.368 -----
                    0.363
                                                    QO A=  0.004 R=0.999
                                                       B=  0.346
75) PT  Ethylbenzene    1.660 2.070 2.021 1.986 1.956 1.838 1.743 1.827  13.22
                    1.343
76) PT  m p-Xylene      0.562 0.644 0.688 0.714 0.719 0.700 0.685 0.661   9.30
                    0.575
77) PT  o-Xylene        0.632 0.673 0.617 0.687 0.689 0.683 0.671 0.659   4.65
                    0.620
78) PT  Styrene         0.852 1.108 1.118 1.120 1.166 1.146 1.120 1.078   9.66
                    0.997
79) PT  Bromoform       0.145 0.160 0.197 0.204 0.237 0.260 0.270 -----
                    0.272
                                                    QO A=  0.007 R=0.999
                                                       B=  0.247
80) PT  Isopropylben    1.260 1.621 1.679 1.750 1.756 1.636 1.548 1.558  13.41
```

			1.217								
81)	T	cyclohexanone	0.024	0.020	0.021	0.023	0.022	0.023	0.023	0.022#	7.08
			0.020								
82)	I	d4-1,4-DICHLOROBENZEN	----------ISTD----------								
83)	S	SURR4BrFBenz	1.083	1.091	1.084	1.045	1.027	1.023	1.019	1.047	3.33
			1.001								
84)	T	Bromobenzene	0.364	0.739	0.777	0.706	0.695	0.702	0.680	-----	
			0.614								
								QO A= -0.032 R=1.000			
								B= 0.742			
85)	PT	1122Tetrclta	0.906	0.945	0.956	0.954	0.876	0.925	0.884	0.905	5.86
			0.798								
86)	T	123Triclproa	0.847	0.966	0.987	0.990	0.989	1.036	1.039	0.979	6.08
			0.981								
87)	T	14dichloro2bute	0.847	0.966	0.987	0.990	0.989	1.036	1.039	0.979	6.08
			0.981								
88)	T	n-Propylbenz	2.826	3.910	3.861	3.820	3.620	3.318	3.029	3.483	12.42
89)	T	2chlorotolue	1.907	2.352	2.292	2.238	2.134	2.079	1.976	2.073	11.67
			1.608								
90)	T	4chlorotolue	2.096	2.373	2.401	2.339	2.279	2.217	2.109	2.188	10.55
			1.692								
91)	T	135Trimebenz	2.156	2.535	2.487	2.587	2.433	2.368	2.211	2.317	11.74
			1.756								
92)	T	tbutylbenzen	1.648	1.866	2.067	2.059	2.028	1.933	1.831	1.866	11.02
			1.493								
93)	T	124Trimetben	1.872	2.455	2.567	2.513	2.411	2.291	2.151	2.247	13.80
			1.719								
94)	T	sbutylbenzen	2.190	2.837	3.032	3.151	2.928	2.790	2.587	2.788	11.44
95)	PT	13Diclorbenz	1.152	1.190	1.256	1.234	1.195	1.187	1.173	1.177	5.79
			1.029								
96)	T	pIsopropylto	1.999	2.317	2.486	2.509	2.479	2.369	2.238	2.268	11.83
			1.750								
97)	PT	14dichlorobe	1.339	1.268	1.380	1.351	1.265	1.293	1.250	1.279	7.15
			1.084								
98)	PT	12dichlorobe	1.093	1.220	1.197	1.144	1.145	1.129	1.110	1.127	6.59
			0.976								
99)	T	nButylbenzen	1.925	2.177	2.390	2.543	2.390	2.324	2.197	2.205	12.57
			1.693								
100)	PT	12dibromo3cl	0.122	0.150	0.130	0.170	0.175	0.183	0.188	-----	
			0.170								
								QO A= -0.005 R=0.999			
								B= 0.190			
101)	T	135Trichloroben	0.681	0.910	0.979	1.019	0.953	0.946	0.922	0.902	12.05
			0.806								
102)	PT	124Trichlobe	0.641	0.700	0.793	0.841	0.843	0.811	0.815	0.769	9.83
			0.707								
103)	T	Hexachlorobu	0.330	0.319	0.370	0.437	0.416	0.453	0.444	0.396	13.01
			0.398								
104)	T	Naphthalene	1.767	2.060	2.228	2.360	2.146	2.100	1.992	2.023	12.97
			1.535								
105)	T	123Trichlben	0.535	0.668	0.779	0.829	0.768	0.806	0.780	0.731	13.28
			0.683								

Total Average %RSD 9.54

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

W081813.M Tue Aug 20 14:42:43 2013

BFB

Data File : C:\Instarch\VMS3\Data\AUG1813\BFB1.D Vial: 1
Acq On : 18 Aug 2013 8:20 Operator: RLD-BMS
Sample : BFB INJECTION Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.348 to 4.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	17655	PASS
75	95	30	60	50.3	37192	PASS
95	95	100	100	100.0	73896	PASS
96	95	5	9	7.7	5658	PASS
173	174	0.00	2	0.2	104	PASS
174	95	50	100	79.6	58824	PASS
175	174	5	9	5.3	3093	PASS
176	174	95	101	97.4	57267	PASS
177	176	5	9	6.7	3844	PASS

W081813.M Tue Aug 20 14:40:22 2013

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW1.D Vial: 5
Acq On : 18 Aug 2013 10:05 Operator: RLD-BMS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.5/5.00 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:30:07 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:01 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1514624	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1042208	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	596135	20.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.69	113	319288	17.297 ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 91 %		
45) SURR12DCAd4	7.12	102	98180	19.288 ug/L	0.01
Spiked Amount 19.000	Range 89 - 112		Recovery = 102 %		
61) SURRd8Tolule	9.45	98	1516634	17.661 ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 93 %		
83) SURR4BrFBenz	13.04	95	613256	19.659 ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 103 %		
Target Compounds					Qvalue
2) Dichlorodi	1.68	85	8566m	0.2959 ug/L	71
3) Chloromethan	1.93	50	14142	0.5014 ug/L	82
4) VinylChlorid	2.06	62	9306m	0.3856 ug/L	76
5) Bromomethane	2.52	94	4671	0.6165 ug/L	86
6) Chloroethane	2.67	64	6494	0.4910 ug/L	69
7) Dichloroflmethane	3.00	67	18010	0.4674 ug/L	96
8) Trichlorofma	3.01	101	10661	0.3722 ug/L #	57
9) Ethylether	3.44	59	14010	0.7554 ug/L	82
10) dichlorotfluoroethan	3.54	67	5341	0.2645 ug/L #	46
11) propyleneoxide	3.55	58	19296	5.0112 ug/L	94
12) Acrolein	3.68	56	12448	2.6473 ug/L	97
13) 11dichlorthe	3.75	96	6141	0.4148 ug/L #	75
14) Trichlorotfluoroeth	3.72	101	11911	0.8558 ug/L #	82
15) Acetone	3.89	43	61536	6.3859 ug/L	98
16) Iodomethane	3.94	142	5266	0.3755 ug/L	82
17) Carbon Dislf	4.00	76	28261	0.9108 ug/L	89
18) allylchloride	4.25	41	21677	0.7895 ug/L	89
19) methylacetate	4.32	74	8719	0.5063 ug/L	80
20) Methylchlorid	4.47	84	12188	0.6163 ug/L	94
21) tbutylalcohol	4.67	59	72464	26.7538 ug/L	84
22) Acrylonitrile	4.85	53	28538	2.4034 ug/L	98
23) t12dichlorte	4.77	96	7289	0.3746 ug/L #	56
24) MtBE	4.77	73	29155	0.5488 ug/L	86
25) Hexane	5.07	57	27514	0.6137 ug/L #	97
26) 11dichlorota	5.35	63	21046	0.4954 ug/L	90
27) Vinylacetate	5.41	43	174661	5.0775 ug/L	92
28) chloroprene	5.43	53	38724	0.8582 ug/L	86
29) Diisopether	5.39	45	39844	0.4951 ug/L	90
30) ETBE	5.83	59	31984	0.4831 ug/L	88
31) 22dichloropr	6.05	77	9406	0.3325 ug/L #	72
32) c12dichlorte	6.12	96	12301	0.5471 ug/L #	83
33) 2Butanone	6.14	72	11350	3.4514 ug/L #	64
34) propionitrile	6.28	54	17317	3.6476 ug/L #	76
35) Ethylacetate	6.17	88	819m	0.8929 ug/L #	0
36) methacrylonitrile	6.41	67	10892	0.9343 ug/L #	71
37) Bromochlorma	6.40	128	4870	0.5471 ug/L #	76
38) Tetrahydofur	6.42	42	50208	5.0181 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW1.D Vial: 5
Acq On : 18 Aug 2013 10:05 Operator: RLD-BMS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.5/5.00 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:30:07 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:01 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.50	83	16417	0.4647	ug/L		86
40)	111trichlota	6.65	97	11465	0.3221	ug/L		87
42)	Cyclohexane	6.68	56	15525	0.2865	ug/L		92
43)	Carbtetraclo	6.84	119	6331	0.2473	ug/L		95
44)	11dicloprope	6.86	110	5179	0.5060	ug/L	#	62
46)	Benzene	7.12	78	40436	0.5323	ug/L	#	1
47)	12dichlorota	7.23	62	16616	0.4713	ug/L	#	80
48)	TAME	7.26	73	20714	0.4542	ug/L		92
49)	trichloroete	7.94	95	8253	0.3889	ug/L	#	31
50)	methylcyclohexane	8.12	83	6008	0.1413	ug/L	#	1
51)	12dicloropra	8.26	63	9487	0.3978	ug/L	#	70
52)	23Dicl1propene	8.30	75	14923	0.4950	ug/L		81
53)	Dibromometha	8.40	93	6611	0.5041	ug/L	#	58
54)	methylmethacrylate	8.36	69	1220	0.0795	ug/L	#	41
55)	14dioxane	8.41	88	3368	17.2668	ug/L	#	55
56)	Bromodiclrma	8.59	83	8114	0.3063	ug/L	#	66
57)	2Nitropropane	8.94	43	21647	1.4536	ug/L		88
58)	2CLEVE	8.98	63	28098	1.8760	ug/L		91
59)	c13dicloproe	9.16	75	11714	0.3519	ug/L		98
60)	4Meth2Pentan	9.34	43	155207	5.3620	ug/L		89
62)	Toluene	9.54	92	21673	0.3893	ug/L	#	80
63)	t13Dicloprop	9.93	75	6555	0.2360	ug/L	#	12
64)	ethylmethacrylate	9.96	69	23810	0.8317	ug/L		94
65)	112Triclotha	10.15	83	5406	0.3549	ug/L	#	76
66)	Tetrachlorte	10.23	166	7215	0.3445	ug/L	#	80
67)	13Diclorpropa	10.37	76	14300	0.4476	ug/L		93
69)	2Hexanone	10.44	43	111104	5.6308	ug/L		88
70)	Clorodibrmta	10.63	129	6523	0.3796	ug/L	#	70
71)	12Dibrometha	10.78	107	8021	0.4559	ug/L	#	79
72)	Chlorobenzen	11.44	112	24602	0.4877	ug/L	#	58
73)	1Clhexane	11.39	91	13615	0.4591	ug/L	#	9
74)	1112Tetclota	11.55	131	5338	0.2957	ug/L	#	74
75)	Ethylbenzene	11.55	91	43248	0.4542	ug/L		95
76)	m p-Xylene	11.72	106	29309	0.8510	ug/L	#	72
77)	o-Xylene	12.26	106	16464	0.4795	ug/L		99
78)	Styrene	12.30	104	22208	0.3952	ug/L		81
79)	Bromoform	12.58	173	3784	0.2944	ug/L		79
80)	Isopropylben	12.76	105	32840	0.4044	ug/L		97
81)	cyclohexanone	12.96	55	12443	10.8764	ug/L	#	94
84)	Bromobenzene	13.24	156	5429	0.2761	ug/L	#	1
85)	1122Tetrclta	13.28	83	13496	0.5001	ug/L		93
86)	123Triclproa	13.33	75	12618	0.4323	ug/L		92
87)	14dichloro2butene	13.33	75	12618	0.4323	ug/L		81
88)	n-Propylbenz	13.36	91	42117	0.4252	ug/L		96
89)	2chlorotolue	13.50	91	28421	0.4599	ug/L		95
90)	4chlorotolue	13.68	91	31234	0.4789	ug/L		89
91)	135Trimebenz	13.62	105	32134	0.4654	ug/L		96
92)	tbutylbenzen	14.06	119	24562	0.4417	ug/L		88
93)	124Trimetben	14.16	105	27904	0.4166	ug/L		90
94)	sbutylbenzen	14.38	105	32645	0.4077	ug/L		96
95)	13Diclorbenz	14.59	146	17164	0.4892	ug/L		96
96)	pIsopropylto	14.60	119	29788	0.4406	ug/L		98
97)	14dichlorobe	14.73	146	19958	0.5236	ug/L		89
98)	12dichlorobe	15.27	146	16288	0.4849	ug/L		92
99)	nButylbenzen	15.20	91	28692	0.3606	ug/L		84
100)	12dibromo3cl	16.42	157	1813	0.3210	ug/L	#	63
101)	135Trichlorobenzene	16.66	180	10150	0.3775	ug/L		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW1.D Vial: 5
Acq On : 18 Aug 2013 10:05 Operator: RLD-BMS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.5/5.00 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:30:07 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:01 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
102) 124Trichlobe	17.51	180	9559	0.4171	ug/L		81
103) Hexachlorobu	17.70	225	4916	0.3531	ug/L	#	86
104) Naphthalene	17.81	128	26333	0.4366	ug/L		92
105) 123Trichlben	18.15	180	7972	0.3658	ug/L	#	74

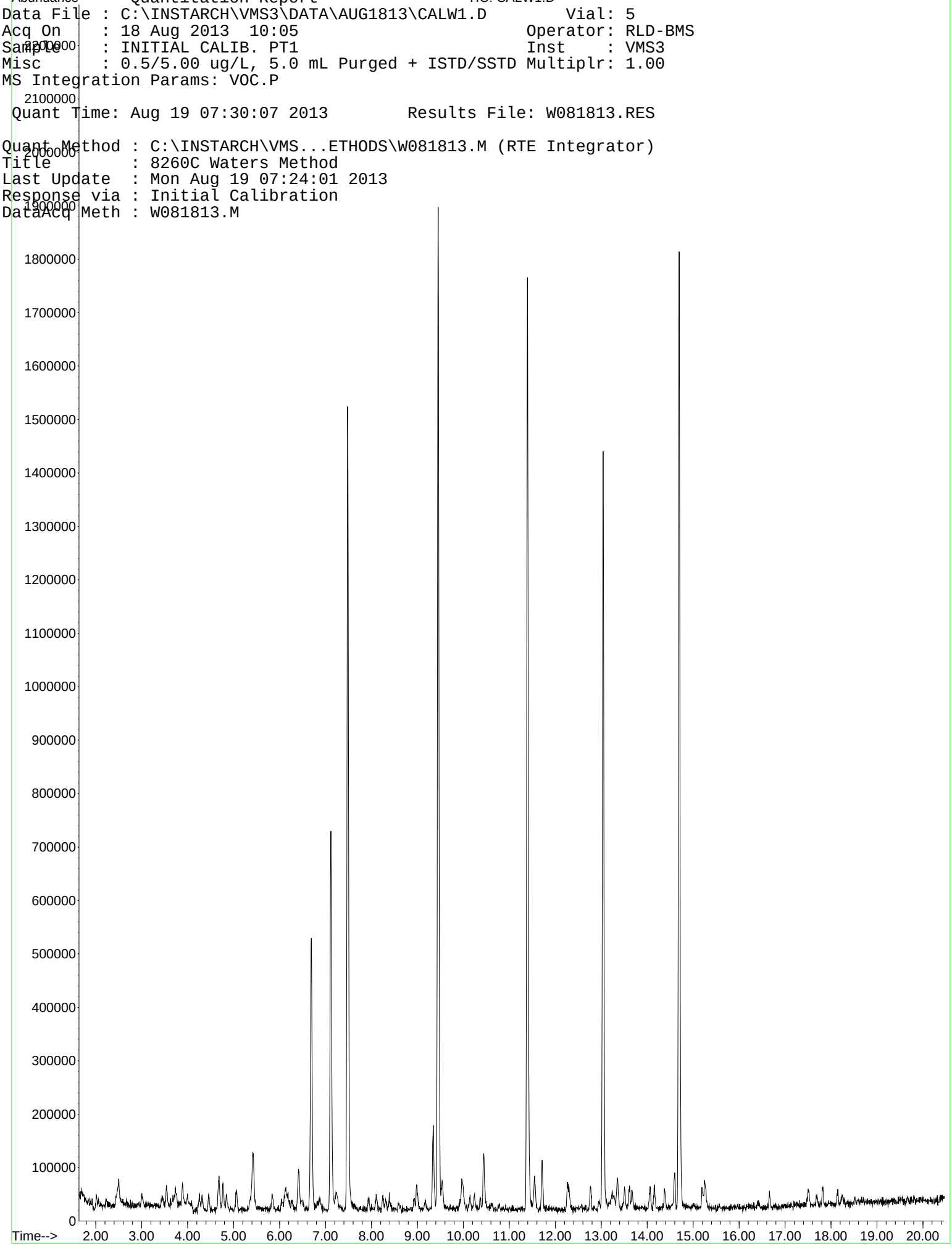
(#) = qualifier out of range (m) = manual integration

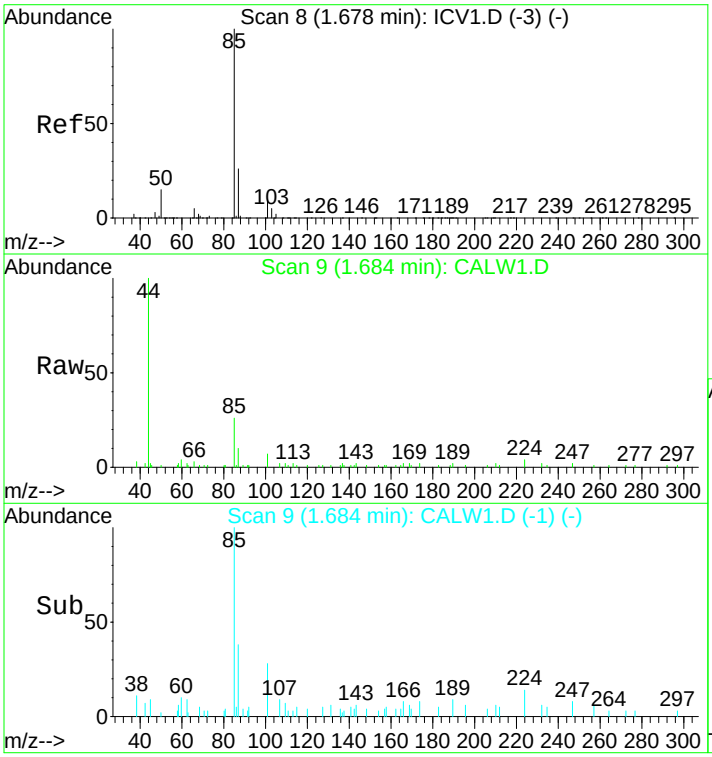
Abundance Quantitation Report TIC: CALW1.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW1.D Vial: 5
Acq On : 18 Aug 2013 10:05 Operator: RLD-BMS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.5/5.00 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:30:07 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:01 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

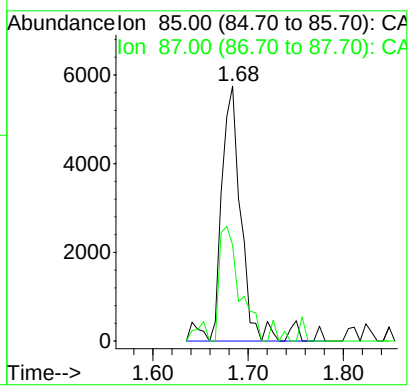




#2
Dichlorodi
Concen: 0.30 ug/L m
RT: 1.68 min Scan# 9
Delta R.T. 0.01 min
Lab File: CALW1.D
Acq: 18 Aug 2013 10:05

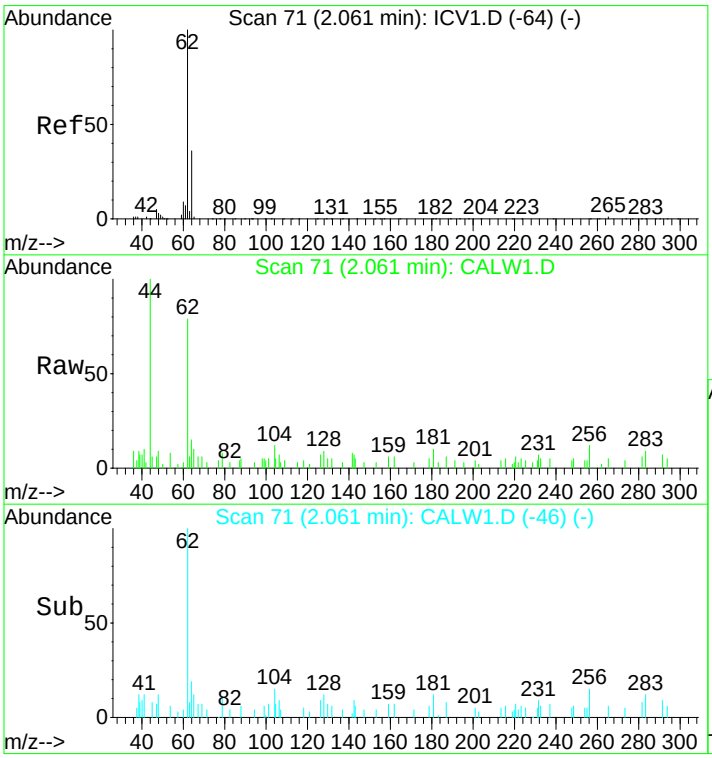
Tgt Ion: 85 Resp: 8566

Ion	Ratio	Lower	Upper
85	100		
87	44.3	13.5	53.5



After Manual Integration

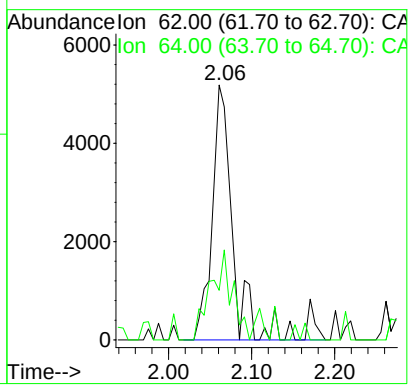
08/20/2013



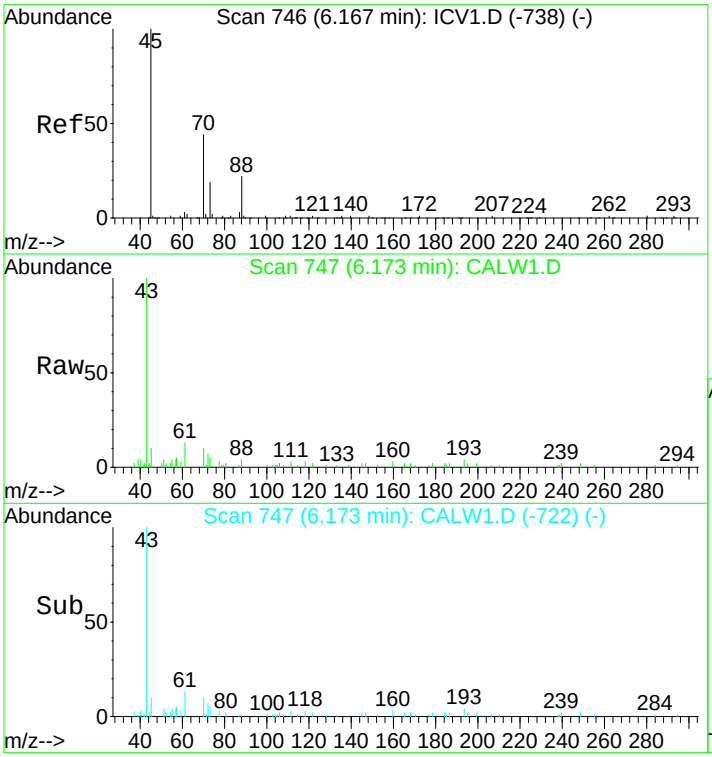
#4
VinylChlorid
Concen: 0.39 ug/L m
RT: 2.06 min Scan# 71
Delta R.T. 0.00 min
Lab File: CALW1.D
Acq: 18 Aug 2013 10:05

Tgt Ion: 62 Resp: 9306

Ion	Ratio	Lower	Upper
62	100		
64	35.5	10.9	50.9



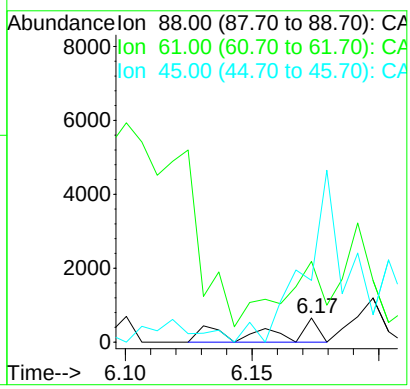
BMS
09/06/13



#35
Ethylacetate
Concen: 0.89 ug/L m
RT: 6.17 min Scan# 747
Delta R.T. 0.00 min
Lab File: CALW1.D
Acq: 18 Aug 2013 10:05

Tgt Ion: 88 Resp: 819

Ion	Ratio	Lower	Upper
88	100		
61	0.0	359.4	399.4#
45	0.0	384.7	424.7#



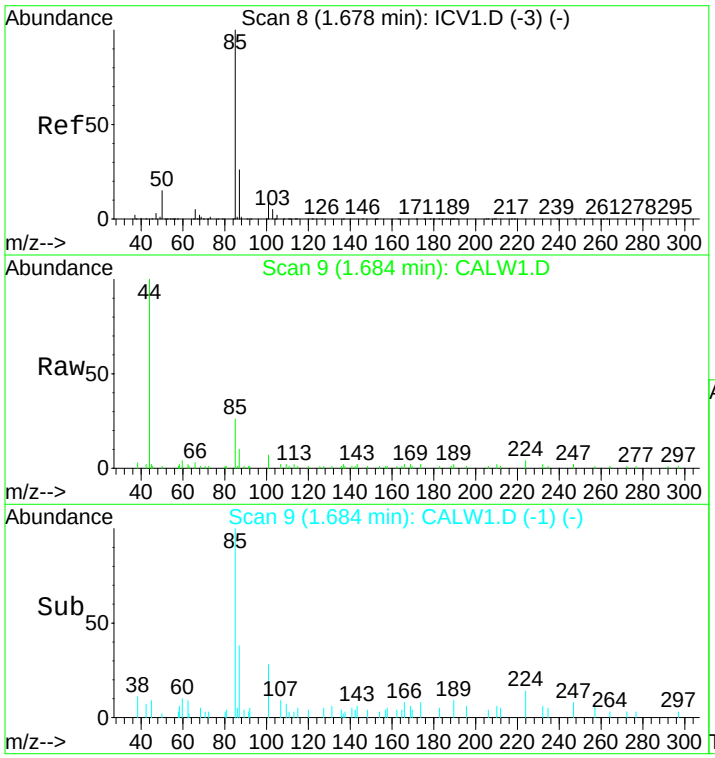
After Manual Integration

RJ 08/20/2013

BMS
09/06/13

Before Manual Integration

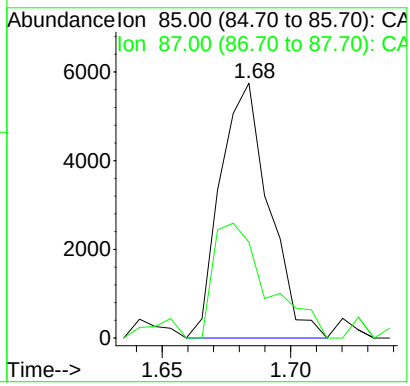
RJ 08/20/2013



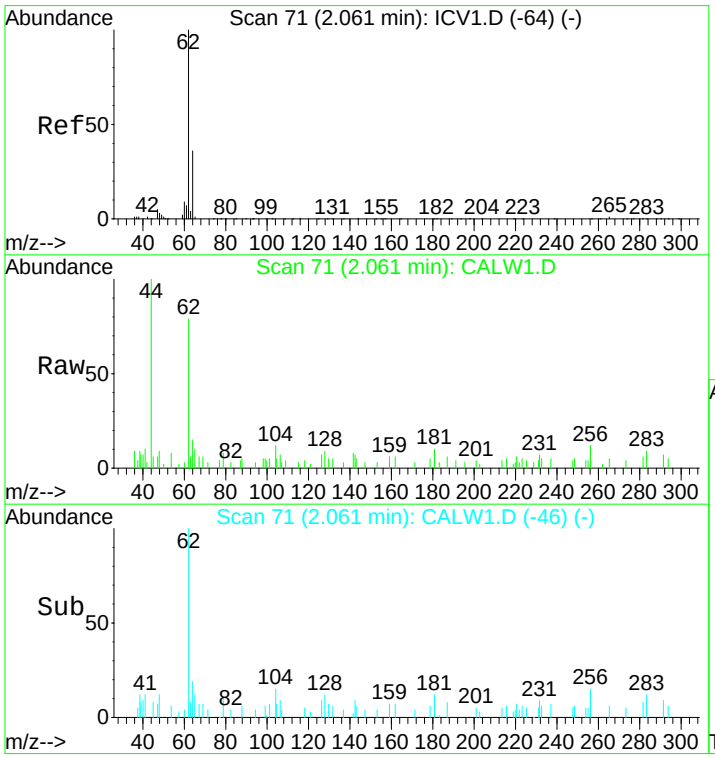
#2
Dichlorodi
Concen: 0.31 ug/L
RT: 1.68 min Scan# 9
Delta R.T. 0.01 min
Lab File: CALW1.D
Acq: 18 Aug 2013 10:05

Tgt Ion: 85 Resp: 7612

Ion	Ratio	Lower	Upper
85	100		
87	49.9	13.5	53.5



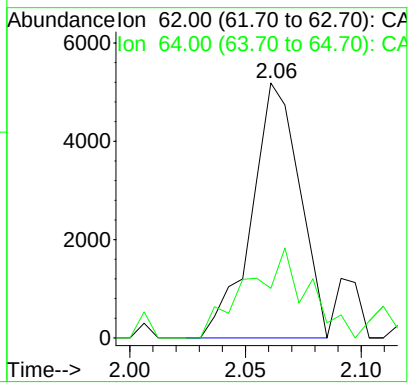
REASON # 2



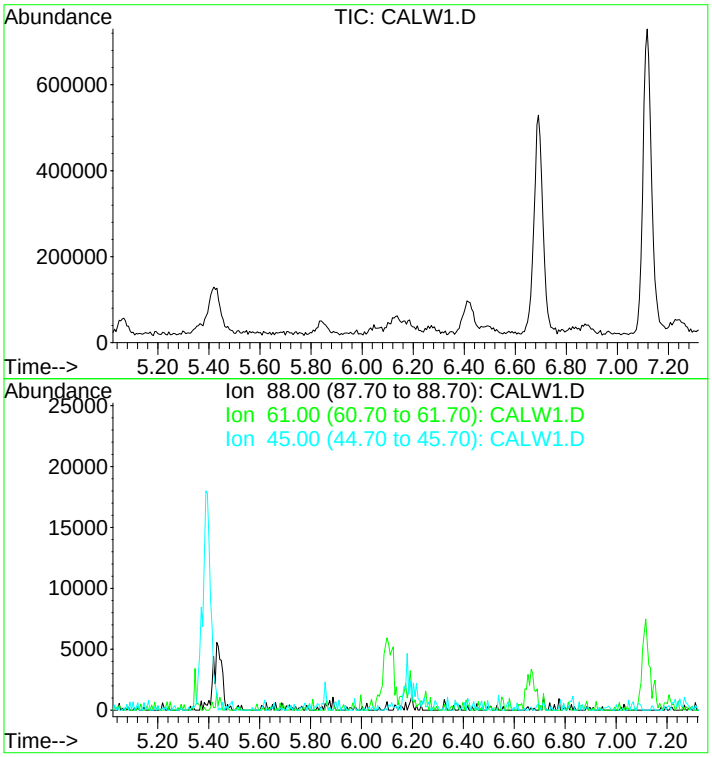
#4
VinylChlorid
Concen: 0.31 ug/L
RT: 2.06 min Scan# 71
Delta R.T. 0.00 min
Lab File: CALW1.D
Acq: 18 Aug 2013 10:05

Tgt Ion: 62 Resp: 7505

Ion	Ratio	Lower	Upper
62	100		
64	44.1	10.9	50.9



REASON # 2



#35
Ethylacetate
Concen: N.D.
Expected RT: 6.17 min

Lab File: CALW1.D
Acq: 18 Aug 2013 10:05

Tgt Ion: 88

Sig	Exp Ratio
88	100
61	379.4
45	404.7

Before Manual Integration

RJ 08/20/2013

REASON # 1

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW2.D Vial: 6
Acq On : 18 Aug 2013 10:35 Operator: RLD-BMS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.0/20.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:24:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:17 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1511479	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1050629	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	592300	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.70	113	345585	18.761	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 99 %			
45) SURR12DCAd4	7.12	102	95162	18.734	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 99 %			
61) SURRd8Tolule	9.45	98	1536642	17.932	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 94 %			
83) SURR4BrFBenz	13.04	95	613719	19.801	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 104 %			
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	45675	1.5870	ug/L	100
3) Chloromethan	1.93	50	57711	2.0504	ug/L	93
4) VinylChlorid	2.07	62	50635	2.1024	ug/L	98
5) Bromomethane	2.52	94	12960	1.7141	ug/L #	70
6) Chloroethane	2.68	64	26940	2.0413	ug/L	87
7) Dichloroflmethane	3.00	67	76917	2.0002	ug/L	98
8) Trichlorofma	3.01	101	48214	1.6868	ug/L	80
9) Ethylether	3.45	59	36868	1.9920	ug/L	88
10) dichlorotfluoroethan	3.54	67	40004	1.9854	ug/L	97
11) propyleneoxide	3.54	58	73791	19.2033	ug/L	91
12) Acrolein	3.67	56	53313	11.3617	ug/L	96
13) 11dichlorthe	3.73	96	25946	1.7564	ug/L #	86
14) Trichlorotfluoroeth	3.72	101	49958	3.5971	ug/L #	27
15) Acetone	3.89	43	233812	24.3144	ug/L	95
16) Iodomethane	3.95	142	25296	1.8098	ug/L	83
17) Carbon Dislf	3.99	76	107741	3.4794	ug/L	98
18) allylchloride	4.26	41	118982	4.3424	ug/L	98
19) methylacetate	4.32	74	32750	1.9058	ug/L	100
20) Methylchlorid	4.47	84	43742	2.2164	ug/L	96
21) tbutylalcohol	4.68	59	287445	106.3459	ug/L	93
22) Acrylonitrile	4.85	53	130233	10.9905	ug/L	94
23) t12dichlorte	4.77	96	37651	1.9389	ug/L	89
24) MtBE	4.76	73	104753	1.9760	ug/L	99
25) Hexane	5.07	57	151947	3.4154	ug/L	92
26) 11dichlorota	5.35	63	83111	1.9604	ug/L	94
27) Vinylacetate	5.41	43	861026	25.4685	ug/L	93
28) chloroprene	5.43	53	177523	3.9424	ug/L	93
29) Diisopether	5.39	45	170580	2.1239	ug/L	99
30) ETBE	5.84	59	138183	2.0916	ug/L	98
31) 22dichloropr	6.06	77	49716	1.7621	ug/L	97
32) c12dichlorte	6.10	96	41744	1.8603	ug/L	97
33) 2Butanone	6.12	72	60576	18.4587	ug/L	88
34) propionitrile	6.26	54	88771	18.7375	ug/L	97
35) Ethylacetate	6.17	88	6369	6.9359	ug/L #	48
36) methacrylonitrile	6.41	67	39282	3.3723	ug/L #	80
37) Bromochlorma	6.39	128	19261	2.1682	ug/L	98
38) Tetrahydofur	6.42	42	216346	21.6680	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW2.D Vial: 6
Acq On : 18 Aug 2013 10:35 Operator: RLD-BMS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.0/20.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:24:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:17 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.50	83	65845	1.8677 ug/L		98
40)	111trichlota	6.67	97	52778	1.4875 ug/L		96
42)	Cyclohexane	6.67	56	77457	1.4364 ug/L		97
43)	Carbtetraclo	6.83	119	33802	1.3231 ug/L		85
44)	11dicloprope	6.89	110	16583	1.6237 ug/L	#	91
46)	Benzene	7.11	78	152868	2.0166 ug/L	#	1
47)	12dichlorota	7.23	62	67688	1.9238 ug/L		92
48)	TAME	7.24	73	91570	2.0122 ug/L		95
49)	trichloroete	7.94	95	44683	2.1099 ug/L		83
50)	methylcyclohexane	8.10	83	60914	1.4384 ug/L		95
51)	12dicloropra	8.25	63	46732	1.9636 ug/L	#	99
52)	23Dicl1propene	8.31	75	55715	1.8520 ug/L		98
53)	Dibromometha	8.39	93	27718	2.1178 ug/L	#	80
54)	methylmethacrylate	8.38	69	29121	1.9011 ug/L		92
55)	14dioxane	8.40	88	18117	93.0743 ug/L		88
56)	Bromodiclrma	8.61	83	44215	1.6735 ug/L		96
57)	2Nitropropane	8.93	43	107322	7.2356 ug/L		91
58)	2CLEVE	8.98	63	149289	9.9882 ug/L		96
59)	c13dicloproe	9.16	75	50485	1.5210 ug/L		95
60)	4Meth2Pentan	9.34	43	647756	22.7362 ug/L		93
62)	Toluene	9.54	92	115663	2.0818 ug/L		99
63)	t13Dicloprop	9.92	75	34232	1.2342 ug/L		90
64)	ethylmethacrylate	9.96	69	111387	3.8991 ug/L		98
65)	112Triclotha	10.14	83	31463	2.0700 ug/L		89
66)	Tetrachlorte	10.25	166	38584	1.8464 ug/L		98
67)	13Diclorpropa	10.36	76	65388	2.0508 ug/L		99
69)	2Hexanone	10.44	43	471435	23.7009 ug/L		96
70)	Clorodibrmta	10.62	129	24462	1.4092 ug/L		96
71)	12Dibrometha	10.79	107	35260	1.9880 ug/L		87
72)	Chlorobenzen	11.43	112	104422	2.0533 ug/L		97
73)	1Clhexane	11.38	91	50979	1.7051 ug/L	#	70
74)	1112Tetclota	11.55	131	27605	1.5156 ug/L		94
75)	Ethylbenzene	11.54	91	217468	2.2656 ug/L		91
76)	m p-Xylene	11.72	106	135231	3.8950 ug/L	#	80
77)	o-Xylene	12.26	106	70737	2.0434 ug/L		93
78)	Styrene	12.31	104	116361	2.0539 ug/L		94
79)	Bromoform	12.57	173	16851	1.2988 ug/L		90
80)	Isopropylben	12.77	105	170259	2.0798 ug/L		94
81)	cyclohexanone	12.96	55	42440	36.7995 ug/L		90
84)	Bromobenzene	13.24	156	43779	2.2407 ug/L		95
85)	1122Tetrclta	13.29	83	55945	2.0863 ug/L		97
86)	123Triclproa	13.34	75	57238	1.9735 ug/L		94
87)	14dichloro2butene	13.34	75	57238	1.9735 ug/L		97
88)	n-Propylbenz	13.35	91	231594	2.3535 ug/L		93
89)	2chlorotolue	13.50	91	139336	2.2692 ug/L		99
90)	4chlorotolue	13.67	91	140548	2.1688 ug/L		93
91)	135Trimebenz	13.61	105	150147	2.1886 ug/L		94
92)	tbutylbenzen	14.06	119	110540	2.0007 ug/L		97
93)	124Trimetben	14.16	105	145383	2.1845 ug/L		99
94)	sbutylbenzen	14.39	105	168007	2.1119 ug/L		95
95)	13Diclorbenz	14.59	146	70498	2.0224 ug/L		89
96)	pIsopropylto	14.60	119	137258	2.0432 ug/L		98
97)	14dichlorobe	14.73	146	75109	1.9831 ug/L		90
98)	12dichlorobe	15.27	146	72289	2.1662 ug/L		92
99)	nButylbenzen	15.20	91	128919	1.6402 ug/L		94
100)	12dibromo3cl	16.41	157	8871	1.5832 ug/L		96
101)	135Trichlorobenzene	16.67	180	53885	2.0172 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW2.D Vial: 6
Acq On : 18 Aug 2013 10:35 Operator: RLD-BMS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.0/20.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:24:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:17 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.52	180	41461	1.8208	ug/L	94
103) Hexachlorobu	17.70	225	18923	1.3704	ug/L	95
104) Naphthalene	17.82	128	122031	2.0364	ug/L	99
105) 123Trichlben	18.14	180	39587	1.8284	ug/L	96

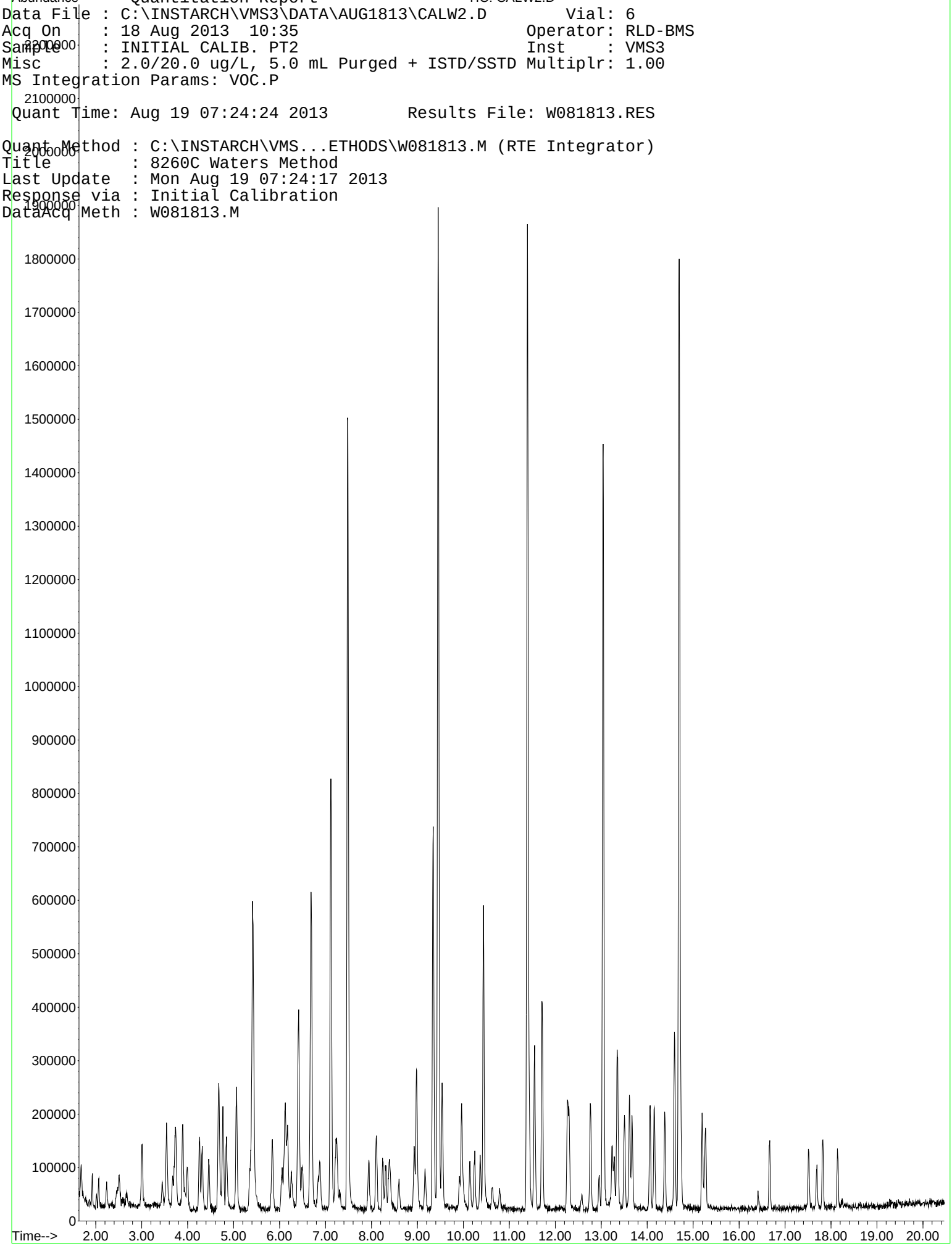
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALW2.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW2.D Vial: 6
Acq On : 18 Aug 2013 10:35 Operator: RLD-BMS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.0/20.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:24:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:24:17 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW3.D Vial: 7
Acq On : 18 Aug 2013 11:04 Operator: RLD-BMS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.0/50.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:28 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:20 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1518882	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1051360	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	605583	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	336788	18.789	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 99 %			
45) SURR12DCAd4	7.12	102	91958	17.952	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 94 %			
61) SURRd8Tolule	9.45	98	1528405	18.777	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 99 %			
83) SURR4BrFBenz	13.04	95	623838	19.205	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	136225	5.4330	ug/L	95
3) Chloromethan	1.93	50	153015	5.1766	ug/L	96
4) VinylChlorid	2.06	62	128318	5.6532	ug/L	92
5) Bromomethane	2.51	94	42106	5.3068	ug/L	100
6) Chloroethane	2.67	64	70249	5.3201	ug/L	98
7) Dichloroflmethane	3.00	67	208426	5.3445	ug/L	94
8) Trichlorofma	3.00	101	154006	5.8326	ug/L	99
9) Ethylether	3.44	59	87669	4.0505	ug/L	95
10) dichlorotfluoroethan	3.53	67	106451	5.8375	ug/L	97
11) propyleneoxide	3.55	58	198219	50.8172	ug/L	97
12) Acrolein	3.67	56	120502	23.8103	ug/L	97
13) 11dichlorthe	3.74	96	75099	5.4033	ug/L	95
14) Trichlorotfluoroeth	3.72	101	143126	10.7752	ug/L	93
15) Acetone	3.89	43	556148	49.1506	ug/L	98
16) Iodomethane	3.93	142	90176	10.9736	ug/L	92
17) Carbon Dislf	4.00	76	323063	10.5850	ug/L	99
18) allylchloride	4.25	41	302980	10.9810	ug/L	98
19) methylacetate	4.31	74	92851	5.3584	ug/L	92
20) Methylchlorid	4.46	84	99593	4.5472	ug/L	99
21) tbutylalcohol	4.68	59	748576	251.7611	ug/L	93
22) Acrylonitrile	4.84	53	309565	24.8106	ug/L	96
23) t12dichlorte	4.77	96	101609	5.5861	ug/L	98
24) MtBE	4.76	73	286119	5.2295	ug/L	98
25) Hexane	5.07	57	409670	10.1576	ug/L	96
26) 11dichlorota	5.35	63	214638	4.9412	ug/L	97
27) Vinylacetate	5.41	43	2135895	51.9261	ug/L	97
28) chloroprene	5.43	53	480346	10.8384	ug/L	96
29) Diisopether	5.39	45	435889	5.1870	ug/L	96
30) ETBE	5.83	59	354411	5.2447	ug/L	98
31) 22dichloropr	6.05	77	131121	5.0631	ug/L	100
32) c12dichlorte	6.09	96	101478	4.4081	ug/L #	84
33) 2Butanone	6.12	72	180083	60.9629	ug/L	98
34) propionitrile	6.25	54	252458	57.5972	ug/L	99
35) Ethylacetate	6.16	88	23651	29.3450	ug/L #	74
36) methacrylonitrile	6.41	67	99076	9.5239	ug/L #	80
37) Bromochlorma	6.40	128	43476	4.5600	ug/L	93
38) Tetrahydofur	6.41	42	563057	52.3475	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW3.D Vial: 7
Acq On : 18 Aug 2013 11:04 Operator: RLD-BMS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.0/50.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:28 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:20 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.49	83	177826	5.1885	ug/L		97
40)	111trichlota	6.66	97	148470	5.1161	ug/L		92
42)	Cyclohexane	6.67	56	236757	5.2990	ug/L		98
43)	Carbtetraclo	6.84	119	101497	5.1643	ug/L		91
44)	11dicloprope	6.87	110	48249	5.2275	ug/L		94
46)	Benzene	7.11	78	396526	4.9095	ug/L	#	67
47)	12dichlorota	7.21	62	190749	5.4612	ug/L		97
48)	TAME	7.24	73	232047	5.1951	ug/L		100
49)	trichloroete	7.94	95	109901	5.3614	ug/L		98
50)	methylcyclohexane	8.11	83	183652	5.2519	ug/L		95
51)	12dicloropra	8.25	63	123909	5.5519	ug/L		99
52)	23Dicl1propene	8.31	75	138245	4.6710	ug/L		97
53)	Dibromometha	8.39	93	62009	4.6372	ug/L		97
54)	methylmethacrylate	8.38	69	84952	7.6810	ug/L		90
55)	14dioxane	8.40	88	47368	258.2586	ug/L		83
56)	Bromodiclrma	8.59	83	109935	4.7645	ug/L		94
57)	2Nitropropane	8.93	43	325657	50.6267	ug/L		95
58)	2CLEVE	8.98	63	414985	28.8778	ug/L		98
59)	c13dicloproe	9.17	75	136493	4.9467	ug/L		99
60)	4Meth2Pentan	9.34	43	1588988	50.0525	ug/L		98
62)	Toluene	9.53	92	288701	5.3837	ug/L		99
63)	t13Dicloprop	9.91	75	109726	5.4488	ug/L		98
64)	ethylmethacrylate	9.96	69	294149	10.7851	ug/L		98
65)	112Triclotha	10.14	83	84545	6.0178	ug/L		88
66)	Tetrachlorte	10.24	166	100837	5.3221	ug/L		95
67)	13Diclorpropa	10.37	76	161132	5.1049	ug/L		93
69)	2Hexanone	10.43	43	1247363	53.9685	ug/L		97
70)	Clorodibrmta	10.64	129	69776	5.1497	ug/L		100
71)	12Dibrometha	10.79	107	81756	4.7808	ug/L		100
72)	Chlorobenzen	11.44	112	270486	5.2949	ug/L		96
73)	1Clhexane	11.39	91	147195	5.1743	ug/L		90
74)	1112Tetclota	11.56	131	78542	5.2899	ug/L		98
75)	Ethylbenzene	11.55	91	531239	5.3039	ug/L		96
76)	m p-Xylene	11.72	106	361734	10.7495	ug/L		92
77)	o-Xylene	12.26	106	162178	4.6467	ug/L		89
78)	Styrene	12.30	104	293977	5.4480	ug/L		99
79)	Bromoform	12.57	173	51659	5.4823	ug/L		92
80)	Isopropylben	12.76	105	441341	5.4390	ug/L		96
81)	cyclohexanone	12.95	55	109490	92.9261	ug/L		99
84)	Bromobenzene	13.24	156	117685	6.4439	ug/L		93
85)	1122Tetrclta	13.28	83	144774	5.1151	ug/L		100
86)	123Triclproa	13.34	75	149407	5.2815	ug/L		97
87)	14dichloro2butene	13.34	75	149407	5.2815	ug/L		95
88)	n-Propylbenz	13.35	91	584575	5.4866	ug/L		99
89)	2chlorotolue	13.50	91	346928	5.2898	ug/L		99
90)	4chlorotolue	13.67	91	363569	5.2909	ug/L		99
91)	135Trimebenz	13.61	105	376480	5.1252	ug/L		100
92)	tbutylbenzen	14.06	119	312883	5.5624	ug/L		98
93)	124Trimetben	14.15	105	388579	5.6291	ug/L		95
94)	sbutylbenzen	14.38	105	459077	5.5619	ug/L		99
95)	13Diclorbenz	14.60	146	190104	5.2671	ug/L		98
96)	pIsopropylto	14.60	119	376297	5.4625	ug/L		99
97)	14dichlorobe	14.73	146	208926	5.2148	ug/L		97
98)	12dichlorobe	15.27	146	181283	5.1944	ug/L		95
99)	nButylbenzen	15.20	91	361869	5.1649	ug/L		98
100)	12dibromo3cl	16.41	157	19757	4.2346	ug/L		81
101)	135Trichlorobenzene	16.66	180	148217	5.6260	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW3.D Vial: 7
Acq On : 18 Aug 2013 11:04 Operator: RLD-BMS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.0/50.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:28 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:20 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	120116	5.4543	ug/L	98
103) Hexachlorobu	17.70	225	55987	5.0566	ug/L	96
104) Naphthalene	17.82	128	337243	5.4006	ug/L	98
105) 123Trichlben	18.15	180	117868	5.7451	ug/L	96

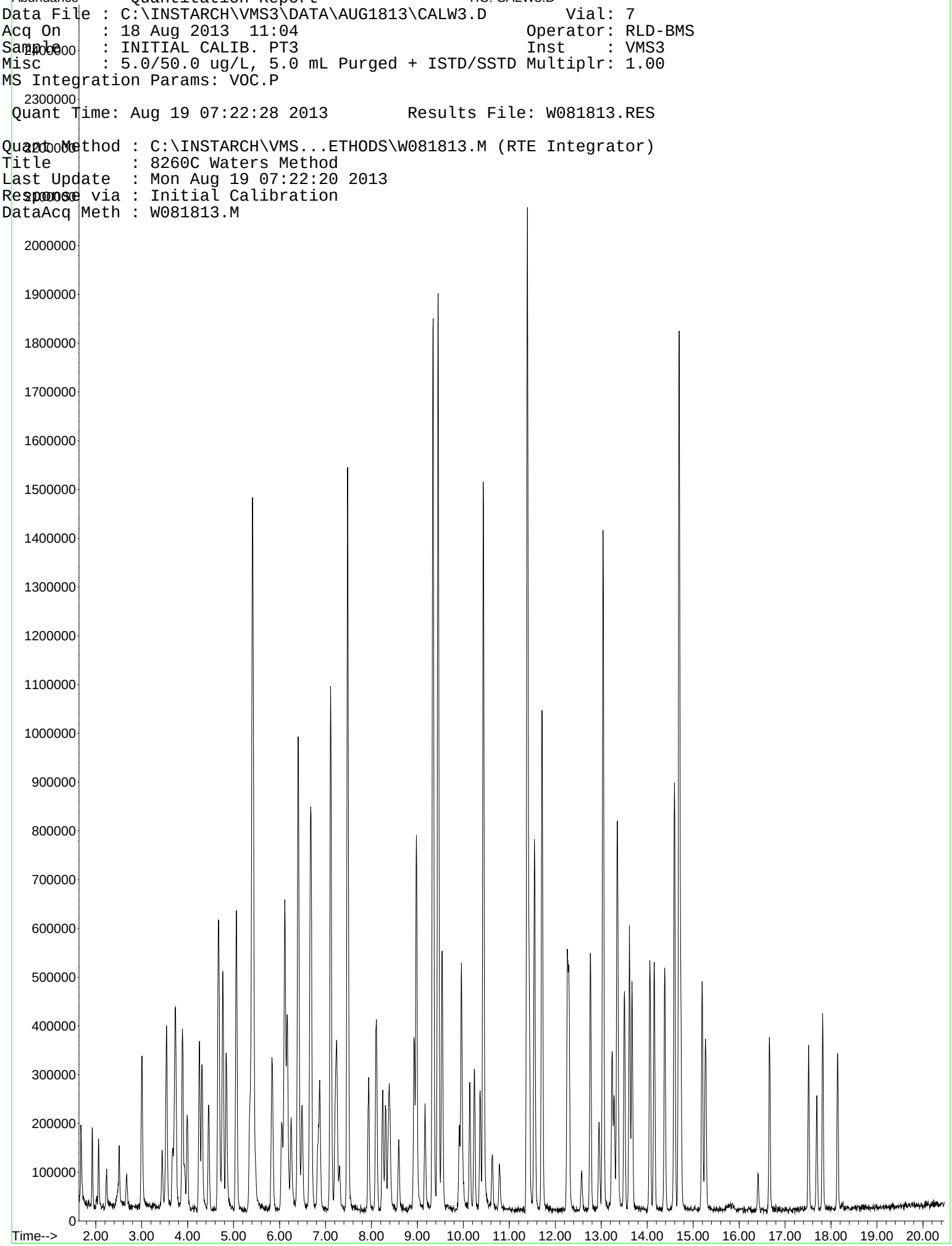
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALW3.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW3.D Vial: 7
Acq On : 18 Aug 2013 11:04 Operator: RLD-BMS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.0/50.0 ug/L, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:28 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:20 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW4.D Vial: 8
Acq On : 18 Aug 2013 11:34 Operator: RLD-BMS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:45 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:37 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1526169	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.40	117	1073010	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	632357	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	356527	19.850	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 104	%		
45) SURR12DCAd4	7.11	102	98429	19.391	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 102	%		
61) SURRd8Tolule	9.45	98	1584096	19.426	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 102	%		
83) SURR4BrFBenz	13.04	95	627631	18.454	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 97	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	286536	9.9822	ug/L	100
3) Chloromethan	1.93	50	314854	10.5081	ug/L	100
4) VinylChlorid	2.06	62	277502	11.7825	ug/L	100
5) Bromomethane	2.51	94	79661	9.8411	ug/L	100
6) Chloroethane	2.68	64	131238	9.7356	ug/L	100
7) Dichloroflmethane	3.00	67	424554	10.6510	ug/L	100
8) Trichlorofma	3.01	101	337885	12.2264	ug/L	100
9) Ethylether	3.45	59	184073	8.8859	ug/L	100
10) dichlorotfluoroethan	3.54	67	240242	12.5844	ug/L	100
11) propyleneoxide	3.55	58	414652	105.3658	ug/L	100
12) Acrolein	3.67	56	242916	48.3443	ug/L	100
13) 11dichlorthe	3.74	96	164317	11.5334	ug/L	100
14) Trichlorotfluoroeth	3.73	101	308733	22.6921	ug/L	100
15) Acetone	3.89	43	990923	87.5282	ug/L	100
16) Iodomethane	3.94	142	214193	19.9664	ug/L	100
17) Carbon Dislf	4.00	76	728333	23.4072	ug/L	100
18) allylchloride	4.26	41	626261	22.0487	ug/L	100
19) methylacetate	4.32	74	181402	10.2352	ug/L	100
20) Methylchlorid	4.46	84	193873	9.0137	ug/L	100
21) tbutylalcohol	4.68	59	1574253	525.9986	ug/L	100
22) Acrylonitrile	4.84	53	648339	51.8122	ug/L	99
23) t12dichlorte	4.77	96	211456	11.2402	ug/L	100
24) MtBE	4.77	73	533161	9.5883	ug/L	100
25) Hexane	5.06	57	901273	20.0107	ug/L	100
26) 11dichlorota	5.35	63	465973	10.7074	ug/L	100
27) Vinylacetate	5.41	43	3906444	99.9260	ug/L	100
28) chloroprene	5.43	53	995875	21.9042	ug/L	100
29) Diisopether	5.39	45	869522	10.2024	ug/L	100
30) ETBE	5.84	59	695217	10.1152	ug/L	100
31) 22dichloropr	6.05	77	281359	10.0014	ug/L	100
32) c12dichlorte	6.11	96	235431	10.4885	ug/L	100
33) 2Butanone	6.12	72	356107	113.7415	ug/L	100
34) propionitrile	6.25	54	525880	115.0347	ug/L	100
35) Ethylacetate	6.17	88	49423	49.8217	ug/L	99
36) methacrylonitrile	6.40	67	226158	20.0339	ug/L	100
37) Bromochlorma	6.39	128	92073	9.8272	ug/L	100
38) Tetrahydofur	6.41	42	1138958	104.1610	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW4.D Vial: 8
Acq On : 18 Aug 2013 11:34 Operator: RLD-BMS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:45 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:37 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.49	83	370082	10.6461 ug/L	100
40)	111trichlota	6.67	97	333630	9.9992 ug/L	100
42)	Cyclohexane	6.67	56	536697	9.9906 ug/L	100
43)	Carbtetraclo	6.84	119	241711	9.9969 ug/L	100
44)	11dicloprope	6.88	110	103692	9.9946 ug/L	100
46)	Benzene	7.11	78	848489	10.5028 ug/L	100
47)	12dichlorota	7.21	62	376511	10.4864 ug/L	100
48)	TAME	7.24	73	466966	10.3041 ug/L	100
49)	trichloroete	7.93	95	226138	10.7844 ug/L	100
50)	methylcyclohexane	8.10	83	431806	9.9922 ug/L	100
51)	12dicloropra	8.24	63	245791	10.6661 ug/L	100
52)	23Dicl1propene	8.30	75	311610	10.6535 ug/L	100
53)	Dibromometha	8.41	93	130001	9.8542 ug/L	100
54)	methylmethacrylate	8.37	69	161886	12.8452 ug/L	100
55)	14dioxane	8.39	88	117445	632.0534 ug/L	100
56)	Bromodiclrma	8.59	83	255249	10.0153 ug/L	100
57)	2Nitropropane	8.93	43	821159	100.0152 ug/L	100
58)	2CLEVE	8.98	63	847303	56.4897 ug/L	100
59)	c13dicloproe	9.17	75	316654	10.0072 ug/L	100
60)	4Meth2Pentan	9.34	43	3080002	100.1183 ug/L	100
62)	Toluene	9.54	92	596136	10.8554 ug/L	100
63)	t13Dicloprop	9.91	75	243907	9.9832 ug/L	100
64)	ethylmethacrylate	9.96	69	602462	21.5608 ug/L	100
65)	112Triclotha	10.15	83	155800	10.5023 ug/L	99
66)	Tetrachlorte	10.24	166	231075	11.9454 ug/L	100
67)	13Diclorpropa	10.36	76	333367	10.4563 ug/L	100
69)	2Hexanone	10.43	43	2381476	98.9939 ug/L	100
70)	Clorodibrmta	10.64	129	157258	9.9931 ug/L	100
71)	12Dibrometha	10.79	107	178374	10.3335 ug/L	100
72)	Chlorobenzen	11.44	112	524263	9.9096 ug/L	100
73)	1Clhexane	11.38	91	330317	11.2790 ug/L	100
74)	1112Tetclota	11.55	131	169164	9.9846 ug/L	100
75)	Ethylbenzene	11.55	91	1065658	10.2688 ug/L	100
76)	m p-Xylene	11.71	106	766582	21.9101 ug/L	100
77)	o-Xylene	12.26	106	368380	10.5278 ug/L	100
78)	Styrene	12.30	104	600676	10.6681 ug/L	100
79)	Bromoform	12.57	173	109622	9.9749 ug/L	100
80)	Isopropylben	12.77	105	938813	11.0928 ug/L	100
81)	cyclohexanone	12.96	55	248571	210.4314 ug/L	100
84)	Bromobenzene	13.24	156	223234	10.9176 ug/L	100
85)	1122Tetrclta	13.28	83	301673	10.1489 ug/L	100
86)	123Triclproa	13.35	75	312947	10.4471 ug/L	100
87)	14dichloro2butene	13.35	75	312947	10.4471 ug/L	100
88)	n-Propylbenz	13.35	91	1207870	10.5988 ug/L	100
89)	2chlorotolue	13.50	91	707754	10.1870 ug/L	100
90)	4chlorotolue	13.67	91	739698	10.1611 ug/L	100
91)	135Trimebenz	13.61	105	817876	10.5964 ug/L	100
92)	tbutylbenzen	14.06	119	650939	10.7792 ug/L	100
93)	124Trimetben	14.16	105	794400	10.6847 ug/L	100
94)	sbutylbenzen	14.38	105	996257	11.2431 ug/L	100
95)	13Diclorbenz	14.59	146	390190	10.2166 ug/L	100
96)	pIsopropylto	14.60	119	793330	10.7795 ug/L	100
97)	14dichlorobe	14.73	146	427253	10.1042 ug/L	99
98)	12dichlorobe	15.27	146	361827	9.8332 ug/L	100
99)	nButylbenzen	15.20	91	803944	9.9913 ug/L	100
100)	12dibromo3cl	16.41	157	53596	10.0321 ug/L	100
101)	135Trichlorobenzene	16.66	180	322306	11.3605 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW4.D Vial: 8
Acq On : 18 Aug 2013 11:34 Operator: RLD-BMS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:45 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:37 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.51	180	265756	11.3000 ug/L	100
103) Hexachlorobu	17.69	225	138108	9.9977 ug/L	100
104) Naphthalene	17.82	128	746099	11.2175 ug/L	100
105) 123Trichlben	18.15	180	262254	11.8018 ug/L	100

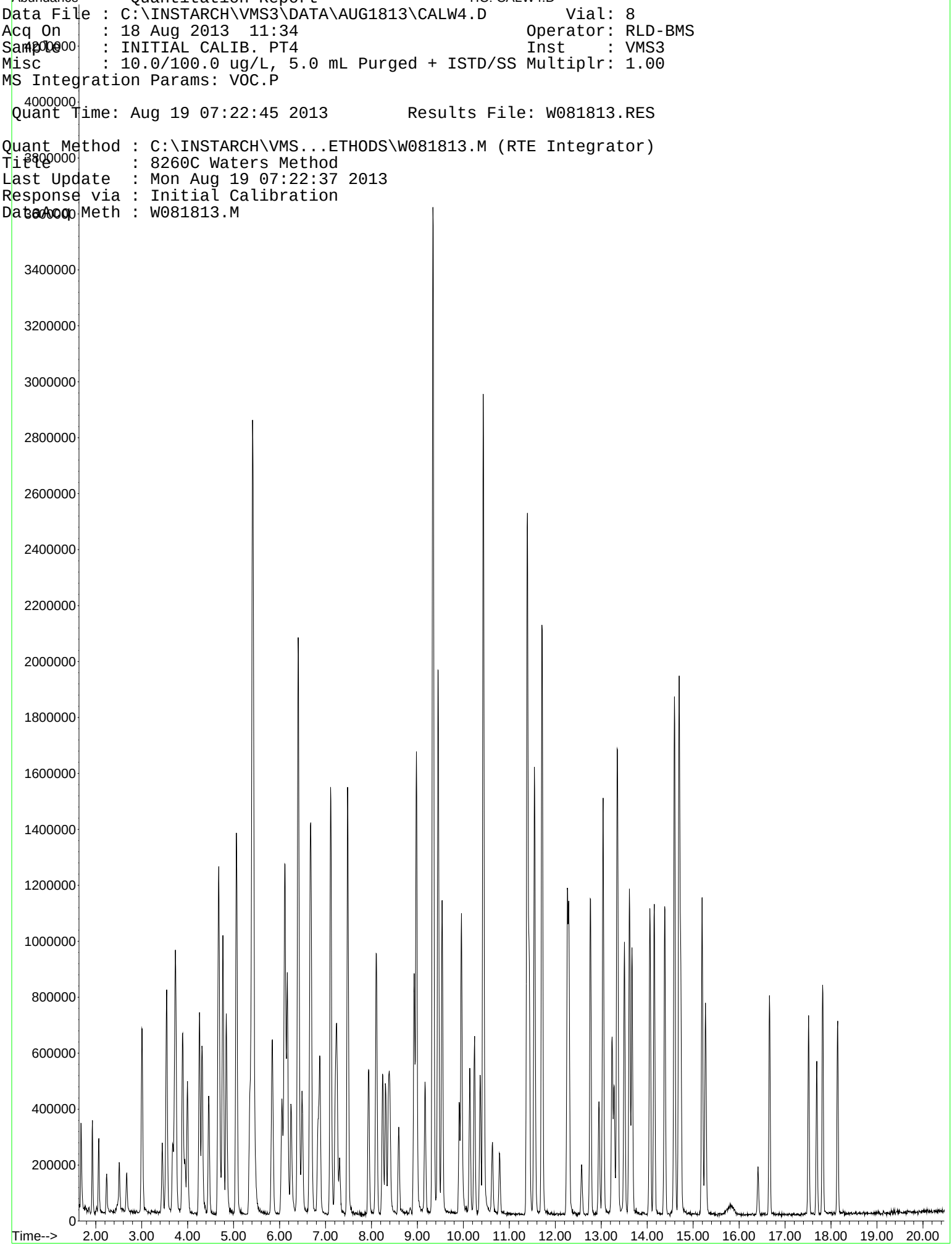
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALW4.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW4.D Vial: 8
Acq On : 18 Aug 2013 11:34 Operator: RLD-BMS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:22:45 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:37 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW5.D Vial: 9
Acq On : 18 Aug 2013 12:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:03 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:55 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1596002	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1073410	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	668456	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	369631	19.671	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 104	%		
45) SURR12DCAd4	7.12	102	100183	18.870	ug/L	0.01
Spiked Amount 19.000	Range 89 - 112		Recovery = 99	%		
61) SURRd8Tolule	9.45	98	1641971	19.248	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 101	%		
83) SURR4BrFBenz	13.04	95	652208	18.141	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 95	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	563738	17.0077	ug/L	97
3) Chloromethan	1.93	50	594735	18.9775	ug/L	99
4) VinylChlorid	2.07	62	556798	22.6027	ug/L	97
5) Bromomethane	2.51	94	133113	15.7225	ug/L	100
6) Chloroethane	2.68	64	287448	20.3876	ug/L	96
7) Dichloroflmethane	3.00	67	839896	20.1457	ug/L	96
8) Trichlorofma	3.01	101	651036	22.5228	ug/L	99
9) Ethylether	3.45	59	365765	16.8820	ug/L	96
10) dichlorotfluoroethan	3.54	67	457615	22.9177	ug/L	98
11) propyleneoxide	3.55	58	824739	200.3698	ug/L	99
12) Acrolein	3.67	56	478007	90.9554	ug/L	99
13) 11dichlorthe	3.74	96	334680	22.4594	ug/L	99
14) Trichlorotfluoroeth	3.73	101	625151	43.9310	ug/L	96
15) Acetone	3.89	43	2013581	170.0546	ug/L	96
16) Iodomethane	3.95	142	493661	34.5590	ug/L	97
17) Carbon Dislf	4.00	76	1305246	40.0842	ug/L	97
18) allylchloride	4.26	41	1197882	40.3216	ug/L	99
19) methylacetate	4.32	74	341274	18.4102	ug/L	95
20) Methylchlorid	4.46	84	397686	17.6781	ug/L #	88
21) tbutylalcohol	4.67	59	2865395	914.8482	ug/L	100
22) Acrylonitrile	4.84	53	1218073	93.0688	ug/L	99
23) t12dichlorte	4.77	96	431968	21.9534	ug/L	98
24) MtBE	4.77	73	1091253	18.7635	ug/L	99
25) Hexane	5.06	57	1711684	32.5543	ug/L	98
26) 11dichlorota	5.35	63	914301	20.0869	ug/L	97
27) Vinylacetate	5.41	43	6416257	182.8879	ug/L	93
28) chloroprene	5.43	53	2033481	42.7622	ug/L	99
29) Diisopether	5.39	45	1697707	19.0452	ug/L	97
30) ETBE	5.84	59	1401767	19.4999	ug/L	99
31) 22dichloropr	6.05	77	581487	17.8557	ug/L	97
32) c12dichlorte	6.10	96	469687	20.0060	ug/L	96
33) 2Butanone	6.12	72	717287	219.0410	ug/L	93
34) propionitrile	6.25	54	1033843	216.0457	ug/L	98
35) Ethylacetate	6.17	88	94293	81.2012	ug/L	94
36) methacrylonitrile	6.41	67	475797	34.8968	ug/L #	86
37) Bromochlorma	6.39	128	168616	17.2067	ug/L #	89
38) Tetrahydofur	6.41	42	2071037	181.0862	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW5.D Vial: 9
Acq On : 18 Aug 2013 12:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:03 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:55 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.50	83	754302	20.7462 ug/L		99
40)	111trichlota	6.67	97	699479	17.2173 ug/L		99
42)	Cyclohexane	6.67	56	1072066	16.3172 ug/L		99
43)	Carbtetraclo	6.84	119	508454	16.5073 ug/L		97
44)	11dicloprope	6.88	110	214232	17.5962 ug/L		98
46)	Benzene	7.11	78	1608469	19.0358 ug/L		87
47)	12dichlorota	7.21	62	764833	20.3664 ug/L		99
48)	TAME	7.24	73	948202	20.0044 ug/L		98
49)	trichloroete	7.94	95	453779	20.6902 ug/L		97
50)	methylcyclohexane	8.11	83	854912	15.8765 ug/L		98
51)	12dicloropra	8.25	63	523825	21.7332 ug/L		95
52)	23Dicl1propene	8.31	75	635787	20.7596 ug/L		95
53)	Dibromometha	8.39	93	258345	18.7231 ug/L		95
54)	methylmethacrylate	8.37	69	365680	27.7407 ug/L		94
55)	14dioxane	8.39	88	207642	1067.5824 ug/L		98
56)	Bromodiclrma	8.59	83	525753	16.9300 ug/L		94
57)	2Nitropropane	8.93	43	2857887	221.3783 ug/L	#	68
58)	2CLEVE	8.98	63	1680537	107.0909 ug/L		95
59)	c13dicloproe	9.17	75	666071	17.0135 ug/L		94
60)	4Meth2Pentan	9.34	43	5235068	171.4812 ug/L		92
62)	Toluene	9.54	92	1208123	21.0334 ug/L		97
63)	t13Dicloprop	9.91	75	570430	18.4044 ug/L		99
64)	ethylmethacrylate	9.96	69	1251458	42.8204 ug/L		97
65)	112Triclotha	10.14	83	311702	20.0889 ug/L		98
66)	Tetrachlorte	10.24	166	481355	23.7905 ug/L		98
67)	13Diclorpropa	10.36	76	683855	20.5079 ug/L		95
69)	2Hexanone	10.43	43	4269041	177.3907 ug/L		94
70)	Clorodibrmta	10.63	129	357282	19.0805 ug/L		99
71)	12Dibrometha	10.78	107	378921	21.9433 ug/L		96
72)	Chlorobenzen	11.44	112	1085820	20.5164 ug/L		98
73)	1Clhexane	11.39	91	672584	22.9575 ug/L		98
74)	1112Tetclota	11.55	131	366231	19.1071 ug/L		96
75)	Ethylbenzene	11.55	91	2099953	20.2279 ug/L		96
76)	m p-Xylene	11.72	106	1542848	44.0805 ug/L		94
77)	o-Xylene	12.26	106	739060	21.1135 ug/L		96
78)	Styrene	12.29	104	1251236	22.2140 ug/L		99
79)	Bromoform	12.57	173	254046	20.1946 ug/L		96
80)	Isopropylben	12.77	105	1884970	22.2640 ug/L		100
81)	cyclohexanone	12.95	55	477870	404.3971 ug/L		99
84)	Bromobenzene	13.24	156	464683	21.4988 ug/L		97
85)	1122Tetrclta	13.28	83	585404	18.6307 ug/L		93
86)	123Triclproa	13.35	75	660927	20.8723 ug/L		99
87)	14dichloro2butene	13.35	75	660927	20.8723 ug/L		97
88)	n-Propylbenz	13.35	91	2419745	20.0861 ug/L		98
89)	2chlorotolue	13.50	91	1426782	19.4273 ug/L		97
90)	4chlorotolue	13.67	91	1523379	19.7963 ug/L		97
91)	135Trimebenz	13.61	105	1626379	19.9335 ug/L		99
92)	tbutylbenzen	14.06	119	1355366	21.2321 ug/L		95
93)	124Trimetben	14.16	105	1611807	20.5080 ug/L		99
94)	sbutylbenzen	14.39	105	1956914	20.8918 ug/L		96
95)	13Diclorbenz	14.59	146	798502	19.7786 ug/L		96
96)	pIsopropylto	14.60	119	1657406	21.3040 ug/L		97
97)	14dichlorobe	14.73	146	845713	18.9591 ug/L		95
98)	12dichlorobe	15.27	146	765218	19.6728 ug/L		97
99)	nButylbenzen	15.20	91	1597462	17.0666 ug/L		99
100)	12dibromo3cl	16.42	157	116917	16.6935 ug/L		91
101)	135Trichlorobenzene	16.66	180	636739	21.2315 ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW5.D Vial: 9
Acq On : 18 Aug 2013 12:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:03 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:55 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	563521	22.6670	ug/L	98
103) Hexachlorobu	17.69	225	277997	16.0119	ug/L	96
104) Naphthalene	17.82	128	1434785	20.4068	ug/L	97
105) 123Trichlben	18.15	180	513404	21.8562	ug/L	97

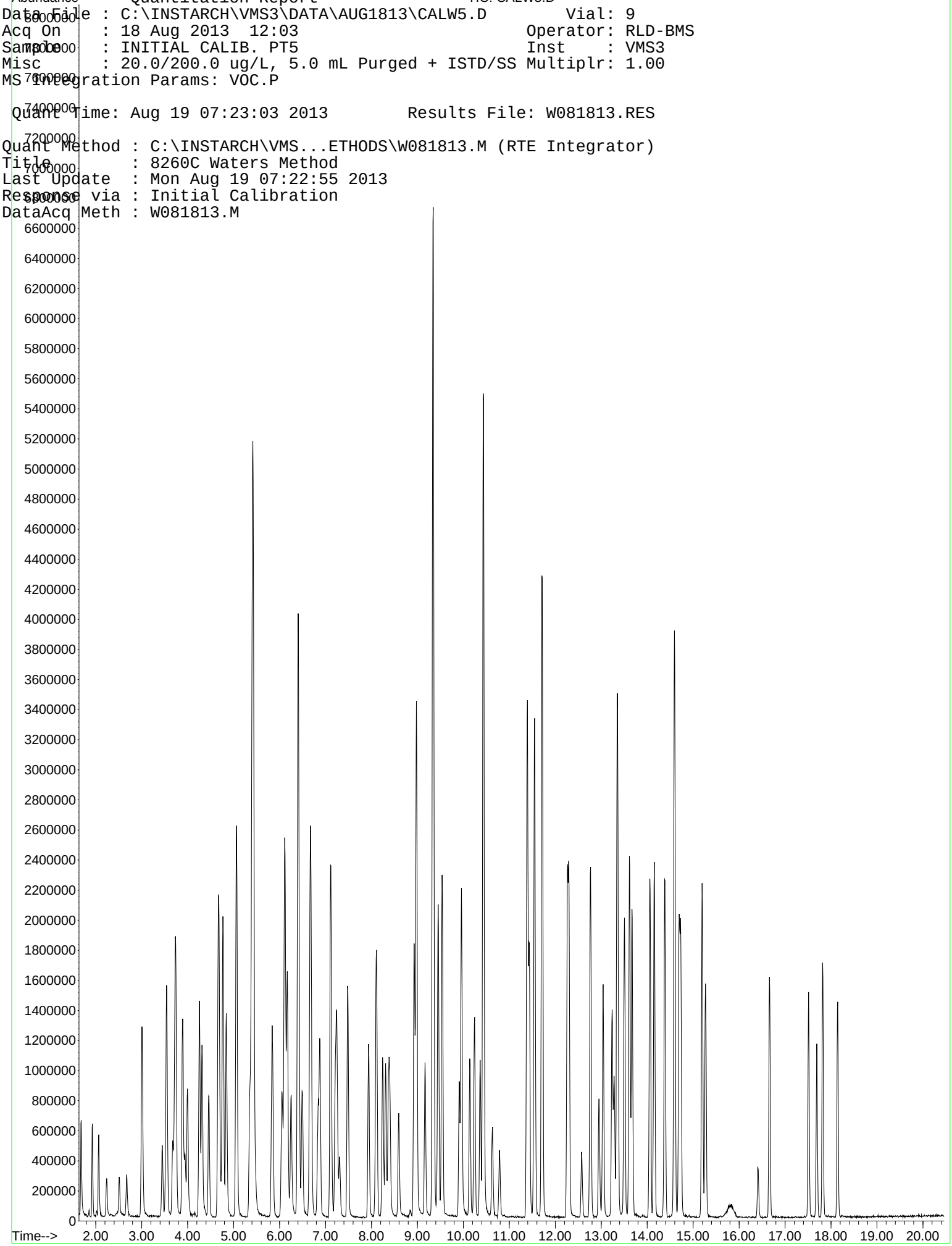
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW5.D Vial: 9
Acq On : 18 Aug 2013 12:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:03 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:22:55 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW6.D Vial: 10
Acq On : 18 Aug 2013 12:33 Operator: RLD-BMS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:20 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:11 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1599338	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.40	117	1125225	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.69	152	708130	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	375434	19.798	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 104	%		
45) SURR12DCAd4	7.11	102	101594	19.122	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 101	%		
61) SURRd8Tolule	9.45	98	1760076	20.536	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 108	%		
83) SURR4BrFBenz	13.04	95	688447	18.241	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 96	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	830326	30.2584	ug/L	100
3) Chloromethan	1.93	50	901352	28.9979	ug/L	99
4) VinylChlorid	2.07	62	812074	32.0622	ug/L	98
5) Bromomethane	2.51	94	232766	28.6615	ug/L	98
6) Chloroethane	2.68	64	431507	30.4234	ug/L	99
7) Dichloroflmethane	3.00	67	1255467	30.0071	ug/L	99
8) Trichlorofma	3.00	101	983990	33.1346	ug/L	99
9) Ethylether	3.45	59	531546	25.2704	ug/L	99
10) dichlorotfluoroethan	3.53	67	703394	34.1564	ug/L	97
11) propyleneoxide	3.55	58	1264201	306.3828	ug/L	96
12) Acrolein	3.67	56	733335	141.8136	ug/L	97
13) 11dichlorthe	3.74	96	507774	33.1879	ug/L	96
14) Trichlorotfluoroeth	3.72	101	940793	64.7024	ug/L	97
15) Acetone	3.89	43	2516873	218.6642	ug/L	96
16) Iodomethane	3.94	142	840997	60.0268	ug/L	98
17) Carbon Dislf	3.99	76	2130748	65.2714	ug/L	97
18) allylchloride	4.26	41	1843743	61.8329	ug/L	96
19) methylacetate	4.31	74	549740	30.0722	ug/L	93
20) Methylchlorid	4.46	84	581764	26.4203	ug/L	94
21) tbutylalcohol	4.67	59	4278700	1386.8499	ug/L	99
22) Acrylonitrile	4.84	53	1889985	146.1318	ug/L	97
23) t12dichlorte	4.77	96	664352	33.0476	ug/L	98
24) MtBE	4.77	73	1698674	29.5117	ug/L	99
25) Hexane	5.06	57	2517687	62.1713	ug/L	96
26) 11dichlorota	5.35	63	1378050	30.1859	ug/L	97
27) Vinylacetate	5.41	43	8441850	Below	Cal	84
28) chloroprene	5.43	53	3075971	63.6705	ug/L	94
29) Diisopether	5.39	45	2541322	28.7238	ug/L	94
30) ETBE	5.84	59	2152771	30.0348	ug/L	97
31) 22dichloropr	6.05	77	891609	30.1987	ug/L	95
32) c12dichlorte	6.09	96	727489	30.9204	ug/L	95
33) 2Butanone	6.12	72	1096951	328.0357	ug/L	97
34) propionitrile	6.25	54	1629569	334.4596	ug/L	99
35) Ethylacetate	6.17	88	151911	173.7107	ug/L	97
36) methacrylonitrile	6.40	67	768983	61.7507	ug/L #	76
37) Bromochlorma	6.39	128	276410	28.9568	ug/L	92
38) Tetrahydofur	6.40	42	3138769	279.1534	ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW6.D Vial: 10
Acq On : 18 Aug 2013 12:33 Operator: RLD-BMS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:20 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:11 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.49	83	1169005	31.8474	ug/L		97
40)	111trichlota	6.66	97	1111338	30.4371	ug/L		99
42)	Cyclohexane	6.67	56	1611602	29.7846	ug/L		99
43)	Carbtetraclo	6.84	119	828469	30.5626	ug/L		95
44)	11dicloprope	6.87	110	335839	30.7474	ug/L		96
46)	Benzene	7.11	78	2416411	28.8157	ug/L		82
47)	12dichlorota	7.21	62	1149934	30.4456	ug/L		98
48)	TAME	7.24	73	1504999	31.6837	ug/L		94
49)	trichloroete	7.94	95	707832	31.9857	ug/L		99
50)	methylcyclohexane	8.10	83	1295401	29.9257	ug/L		98
51)	12dicloropra	8.24	63	776963	31.6205	ug/L		93
52)	23Dicl1propene	8.31	75	1033507	33.4216	ug/L		96
53)	Dibromometha	8.39	93	420986	30.8404	ug/L		94
54)	methylmethacrylate	8.37	69	567295	39.8601	ug/L		95
55)	14dioxane	8.39	88	338160	1711.8701	ug/L		97
56)	Bromodiclrma	8.59	83	830228	30.5650	ug/L		96
57)	2Nitropropane	8.93	43	4453693	256.8089	ug/L	#	71
58)	2CLEVE	8.98	63	2544169	159.5247	ug/L		93
59)	c13dicloproe	9.17	75	1055948	30.1361	ug/L		95
60)	4Meth2Pentan	9.34	43	7015909	Below	Cal		82
62)	Toluene	9.54	92	1843078	31.6935	ug/L		95
63)	t13Dicloprop	9.91	75	909570	28.7096	ug/L		99
64)	ethylmethacrylate	9.96	69	1937734	65.2439	ug/L		96
65)	112Triclotha	10.14	83	503793	32.3725	ug/L		96
66)	Tetrachlorte	10.24	166	725949	34.4969	ug/L		96
67)	13Diclorpropa	10.36	76	1057537	31.4881	ug/L		96
69)	2Hexanone	10.43	43	5804294	235.4008	ug/L		87
70)	Clorodibrmta	10.63	129	585408	28.2378	ug/L		98
71)	12Dibrometha	10.78	107	606365	32.8591	ug/L		94
72)	Chlorobenzen	11.43	112	1654539	29.6695	ug/L		97
73)	1Clhexane	11.38	91	1026800	32.4737	ug/L		97
74)	1112Tetclota	11.55	131	587009	28.5278	ug/L		96
75)	Ethylbenzene	11.55	91	3101805	28.4376	ug/L		93
76)	m p-Xylene	11.71	106	2364174	63.1477	ug/L	#	86
77)	o-Xylene	12.26	106	1152686	31.0676	ug/L		91
78)	Styrene	12.29	104	1935102	32.0632	ug/L		95
79)	Bromoform	12.57	173	439329	29.3620	ug/L		96
80)	Isopropylben	12.77	105	2760527	30.4155	ug/L		95
81)	cyclohexanone	12.95	55	782330	630.1744	ug/L		98
84)	Bromobenzene	13.24	156	745491	32.0773	ug/L		98
85)	1122Tetrclta	13.28	83	982689	29.9321	ug/L		95
86)	123Triclproa	13.35	75	1100560	32.5251	ug/L		100
87)	14dichloro2butene	13.35	75	1100560	32.5251	ug/L		96
88)	n-Propylbenz	13.35	91	3524121	27.5907	ug/L		94
89)	2chlorotolue	13.50	91	2208589	28.5512	ug/L		97
90)	4chlorotolue	13.67	91	2354437	28.9406	ug/L		97
91)	135Trimebenz	13.61	105	2514967	29.1167	ug/L		98
92)	tbutylbenzen	14.06	119	2053567	29.9976	ug/L		96
93)	124Trimetben	14.16	105	2433157	29.0764	ug/L		95
94)	sbutylbenzen	14.38	105	2963465	29.6011	ug/L		95
95)	13Diclorbenz	14.59	146	1261301	29.5570	ug/L		95
96)	pIsopropylto	14.60	119	2516217	30.1379	ug/L		94
97)	14dichlorobe	14.73	146	1373835	29.3787	ug/L		96
98)	12dichlorobe	15.27	146	1199466	29.2047	ug/L		98
99)	nButylbenzen	15.20	91	2468665	30.0180	ug/L		97
100)	12dibromo3cl	16.41	157	194299	29.0357	ug/L		93
101)	135Trichlorobenzene	16.66	180	1004945	31.2469	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW6.D Vial: 10
Acq On : 18 Aug 2013 12:33 Operator: RLD-BMS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:20 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:11 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	861474	31.8607	ug/L	95
103) Hexachlorobu	17.69	225	481367	32.1554	ug/L	98
104) Naphthalene	17.82	128	2230589	29.8267	ug/L	97
105) 123Trichlben	18.15	180	856091	33.7760	ug/L	99

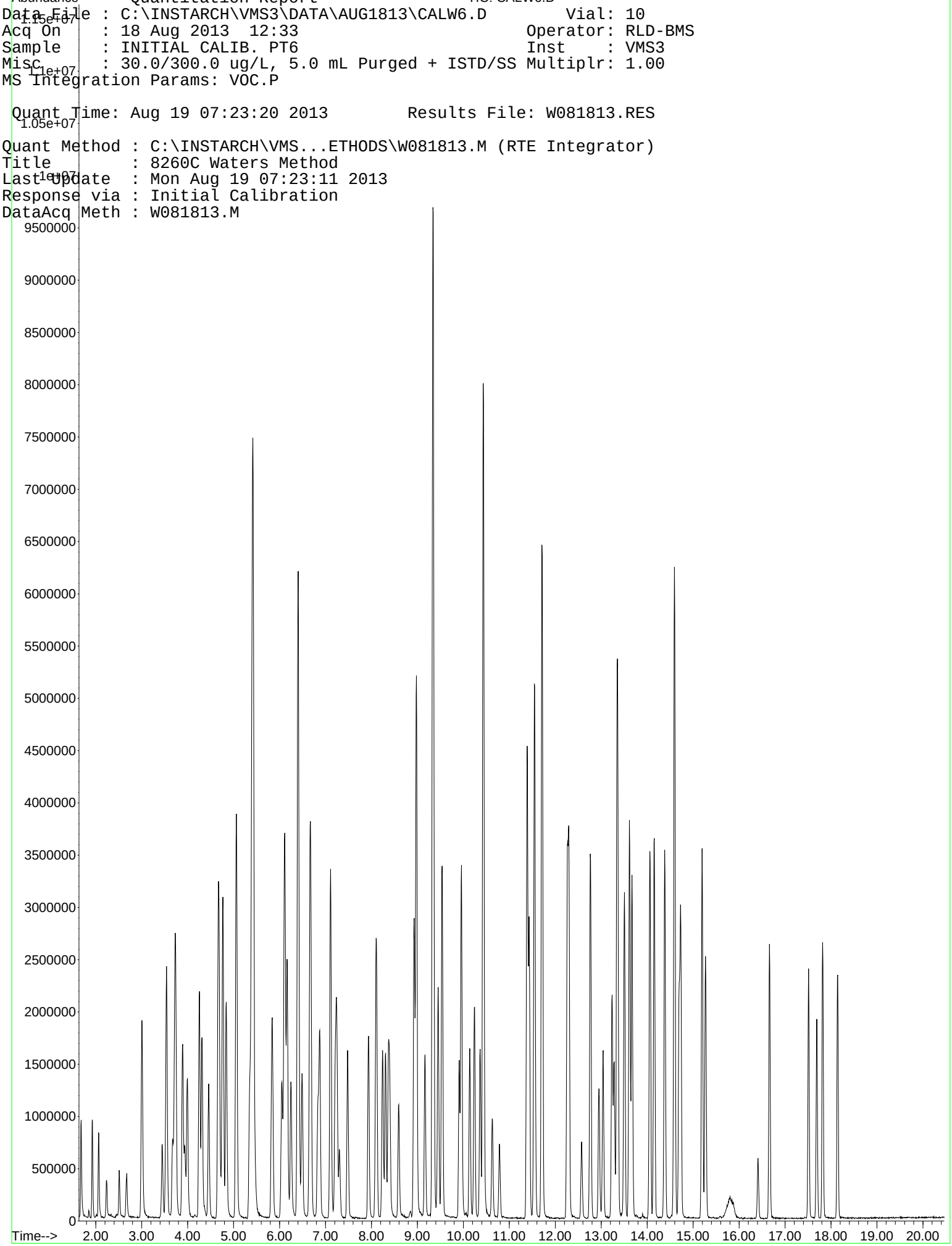
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALW6.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW6.D Vial: 10
Acq On : 18 Aug 2013 12:33 Operator: RLD-BMS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:20 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:11 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW7.D Vial: 11
Acq On : 18 Aug 2013 13:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:28 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1628426	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1145022	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	735989	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	395107	20.321	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 107	%		
45) SURR12DCAd4	7.12	102	110557	20.415	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 107	%		
61) SURRd8Tolule	9.45	98	1862881	21.063	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 111	%		
83) SURR4BrFBenz	13.04	95	712415	18.283	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 96	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	1125673	41.1827	ug/L	100
3) Chloromethan	1.93	50	1174097	37.3055	ug/L	99
4) VinylChlorid	2.07	62	1082681	41.5072	ug/L	98
5) Bromomethane	2.51	94	328572	40.0335	ug/L	99
6) Chloroethane	2.67	64	559757	38.6698	ug/L	99
7) Dichloroflmethane	3.00	67	1612536	37.8515	ug/L	98
8) Trichlorofma	3.00	101	1295289	42.1048	ug/L	99
9) Ethylether	3.45	59	715928	34.3303	ug/L	98
10) dichlorotfluoroethan	3.53	67	932461	43.4672	ug/L	96
11) propyleneoxide	3.54	58	1707369	404.9586	ug/L	98
12) Acrolein	3.67	56	928686	178.0021	ug/L	95
13) 11dichlorthe	3.73	96	672081	42.3915	ug/L	95
14) Trichlorotfluoroeth	3.72	101	1243389	82.9028	ug/L	98
15) Acetone	3.89	43	3512127	313.8631	ug/L	91
16) Iodomethane	3.94	142	1222267	77.7463	ug/L	97
17) Carbon Dislf	3.99	76	2933684	86.9888	ug/L	95
18) allylchloride	4.26	41	2394937	78.4838	ug/L	95
19) methylacetate	4.31	74	762076	40.9265	ug/L	93
20) Methylchlorid	4.46	84	792766	36.0771	ug/L	94
21) tbutylalcohol	4.67	59	5413297	1745.2046	ug/L	99
22) Acrylonitrile	4.84	53	2531468	193.0642	ug/L	96
23) t12dichlorte	4.77	96	869310	41.7635	ug/L	95
24) MtBE	4.76	73	2250566	38.5060	ug/L	99
25) Hexane	5.06	57	3257738	79.2045	ug/L	94
26) 11dichlorota	5.35	63	1807215	38.8394	ug/L	93
27) Vinylacetate	5.41	43	9895004	Below	Cal	78
28) chloroprene	5.43	53	4024932	80.9993	ug/L	91
29) Diisopether	5.39	45	3379266	37.7804	ug/L	91
30) ETBE	5.83	59	2792429	38.2558	ug/L	94
31) 22dichloropr	6.05	77	1205957	39.3129	ug/L	95
32) c12dichlorte	6.09	96	994910	41.3199	ug/L	97
33) 2Butanone	6.11	72	1533885	443.5952	ug/L	96
34) propionitrile	6.25	54	2206122	436.3521	ug/L	97
35) Ethylacetate	6.16	88	227946	216.5228	ug/L #	89
36) methacrylonitrile	6.40	67	1065429	77.9177	ug/L #	70
37) Bromochlorma	6.39	128	377131	39.0288	ug/L	91
38) Tetrahydofur	6.40	42	4050366	357.9391	ug/L	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW7.D Vial: 11
Acq On : 18 Aug 2013 13:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:28 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.49	83	1566725	41.4943	ug/L		96
40)	111trichlota	6.66	97	1503626	38.4400	ug/L		99
42)	Cyclohexane	6.67	56	2134212	39.0543	ug/L		98
43)	Carbtetraclo	6.84	119	1109785	37.6394	ug/L		92
44)	11dicloprope	6.88	110	431812	37.1635	ug/L		97
46)	Benzene	7.11	78	3130154	36.9032	ug/L		79
47)	12dichlorota	7.21	62	1507701	39.1080	ug/L		98
48)	TAME	7.24	73	2040698	41.8030	ug/L		94
49)	trichloroete	7.93	95	950328	41.7164	ug/L		98
50)	methylcyclohexane	8.10	83	1695624	38.4420	ug/L		97
51)	12dicloropra	8.24	63	1087866	43.0947	ug/L		95
52)	23Dicl1propene	8.31	75	1376444	42.9010	ug/L		94
53)	Dibromometha	8.39	93	562381	40.2746	ug/L		95
54)	methylmethacrylate	8.37	69	804332	52.6231	ug/L		96
55)	14dioxane	8.39	88	440826	2141.3256	ug/L		90
56)	Bromodiclrma	8.59	83	1154209	39.5914	ug/L		96
57)	2Nitropropane	8.93	43	5832452	350.1715	ug/L	#	72
58)	2CLEVE	8.98	63	3358711	204.6703	ug/L		91
59)	c13dicloproe	9.17	75	1412043	37.9930	ug/L		92
60)	4Meth2Pentan	9.34	43	8314342	Below	Cal		75
62)	Toluene	9.54	92	2452428	41.0325	ug/L		92
63)	t13Dicloprop	9.91	75	1244848	37.8505	ug/L		96
64)	ethylmethacrylate	9.96	69	2635708	85.9082	ug/L		96
65)	112Triclotha	10.14	83	693463	43.1949	ug/L		94
66)	Tetrachlorte	10.24	166	989504	45.0554	ug/L		97
67)	13Diclorpropa	10.37	76	1401977	40.6619	ug/L		94
69)	2Hexanone	10.43	43	7078258	292.6060	ug/L		82
70)	Clorodibrmta	10.63	129	841899	39.5111	ug/L		98
71)	12Dibrometha	10.78	107	814844	42.7147	ug/L		95
72)	Chlorobenzen	11.44	112	2220973	39.2103	ug/L		97
73)	1Clhexane	11.39	91	1375064	42.1567	ug/L		97
74)	1112Tetclota	11.55	131	842269	40.3732	ug/L		99
75)	Ethylbenzene	11.55	91	3992607	36.2867	ug/L		90
76)	m p-Xylene	11.72	106	3135871	81.5983	ug/L	#	79
77)	o-Xylene	12.26	106	1537581	40.4848	ug/L	#	88
78)	Styrene	12.30	104	2565863	41.3059	ug/L		93
79)	Bromoform	12.57	173	618483	38.2253	ug/L		97
80)	Isopropylben	12.76	105	3545324	38.2986	ug/L		94
81)	cyclohexanone	12.95	55	1031085	809.4049	ug/L		98
84)	Bromobenzene	13.24	156	1000291	40.9393	ug/L		97
85)	1122Tetrclta	13.28	83	1301234	38.1489	ug/L		92
86)	123Triclproa	13.35	75	1529828	42.8982	ug/L		99
87)	14dichloro2butene	13.35	75	1529828	42.8982	ug/L		96
88)	n-Propylbenz	13.35	91	4459028	34.0444	ug/L		90
89)	2chlorotolue	13.50	91	2907896	36.4619	ug/L		95
90)	4chlorotolue	13.67	91	3104752	36.9363	ug/L		92
91)	135Trimebenz	13.61	105	3254825	36.4348	ug/L		93
92)	tbutylbenzen	14.06	119	2695896	37.8903	ug/L		97
93)	124Trimetben	14.16	105	3165855	36.5879	ug/L		92
94)	sbutylbenzen	14.38	105	3808371	36.6820	ug/L		91
95)	13Diclorbenz	14.59	146	1727253	39.0399	ug/L		92
96)	pIsopropylto	14.60	119	3294242	37.9341	ug/L		94
97)	14dichlorobe	14.73	146	1840434	37.9981	ug/L		95
98)	12dichlorobe	15.27	146	1633382	38.4341	ug/L		97
99)	nButylbenzen	15.20	91	3234128	38.9035	ug/L		95
100)	12dibromo3cl	16.41	157	276086	38.9775	ug/L		91
101)	135Trichlorobenzene	16.66	180	1357364	40.3278	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW7.D Vial: 11
Acq On : 18 Aug 2013 13:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:28 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	1199738	42.2547	ug/L	99
103) Hexachlorobu	17.69	225	653968	37.8469	ug/L	99
104) Naphthalene	17.82	128	2931450	37.7509	ug/L	93
105) 123Trichlben	18.15	180	1148491	42.7013	ug/L	98

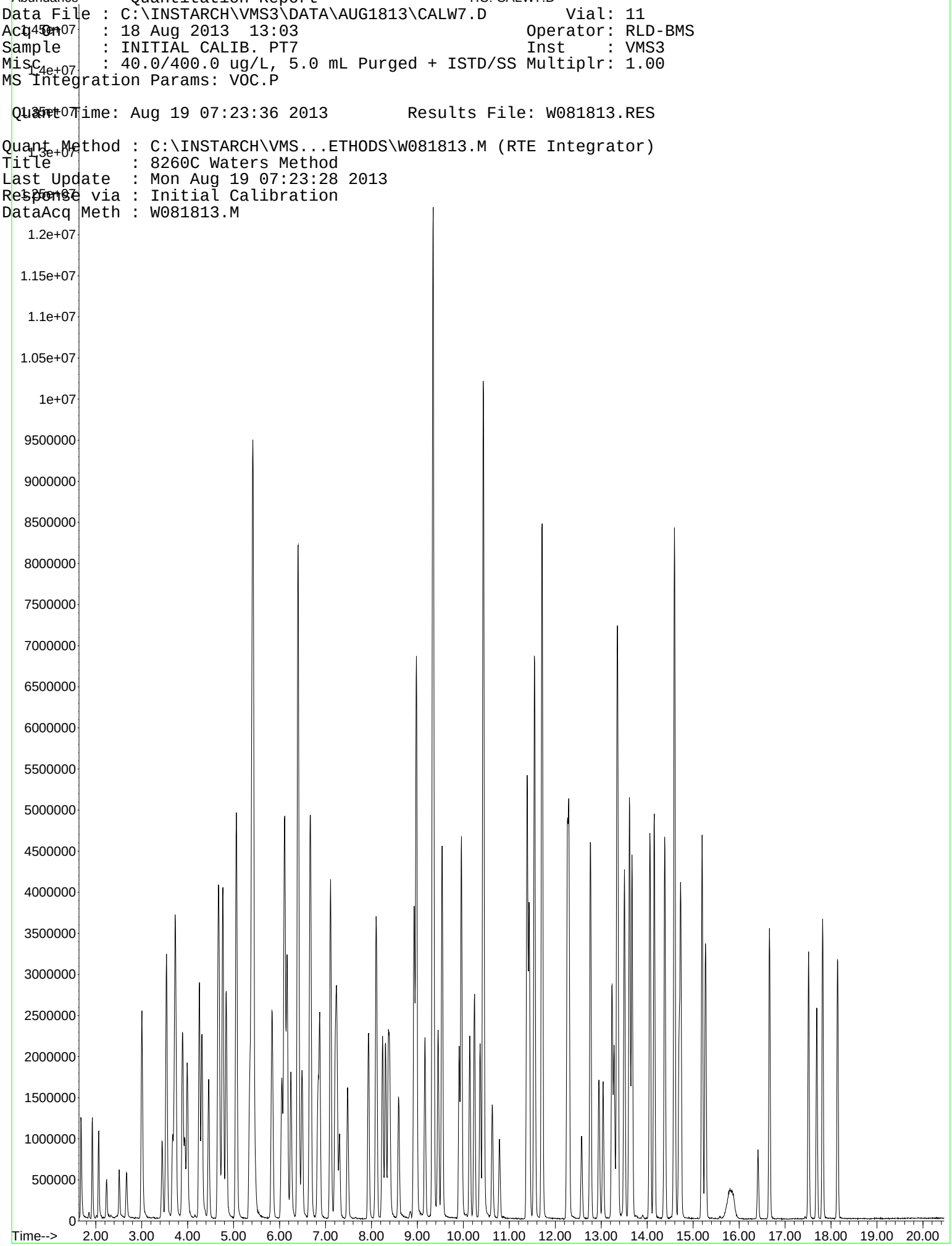
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALW7.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW7.D Vial: 11
Acq On : 18 Aug 2013 13:03 Operator: RLD-BMS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:28 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW8.D Vial: 12
Acq On : 18 Aug 2013 13:32 Operator: RLD-BMS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:53 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1746196	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1284437	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	846799	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	434234	20.623	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 109	%		
45) SURR12DCAd4	7.11	102	111440	18.988	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 100	%		
61) SURRd8Tolule	9.45	98	2239136	23.249	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 122	%#		
83) SURR4BrFBenz	13.04	95	805003	18.053	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 95	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	2065167	71.9252	ug/L	94
3) Chloromethan	1.92	50	2093356	62.6306	ug/L	92
4) VinylChlorid	2.06	62	2059990	73.2540	ug/L	92
5) Bromomethane	2.51	94	661253	75.1249	ug/L	99
6) Chloroethane	2.67	64	1106895	71.6509	ug/L	97
7) Dichloroflmethane	3.00	67	3046424	67.2023	ug/L	95
8) Trichlorofma	3.00	101	2521944	75.8793	ug/L	97
9) Ethylether	3.45	59	1414930	64.5806	ug/L	99
10) dichlorotfluoroethan	3.53	67	1856210	79.7056	ug/L	96
11) propyleneoxide	3.54	58	3048891	673.1808	ug/L	95
12) Acrolein	3.67	56	1928451	350.2015	ug/L	99
13) 11dichlorthe	3.73	96	1320695	77.0267	ug/L	92
14) Trichlorotfluoroeth	3.72	101	2431648	150.4155	ug/L	98
15) Acetone	3.89	43	5971919	513.4866	ug/L	83
16) Iodomethane	3.93	142	2191066	115.3240	ug/L	92
17) Carbon Dislf	3.99	76	4781141	130.5781	ug/L	90
18) allylchloride	4.25	41	3969115	121.6276	ug/L	92
19) methylacetate	4.31	74	1487026	74.2275	ug/L	93
20) Methylchlorid	4.46	84	1581449	68.0682	ug/L #	88
21) tbutylalcohol	4.68	59	8488230	2599.2827	ug/L	94
22) Acrylonitrile	4.84	53	4633102	331.1564	ug/L	93
23) t12dichlorte	4.77	96	1779976	79.2474	ug/L	91
24) MtBE	4.76	73	4287299	68.7732	ug/L	95
25) Hexane	5.06	57	5656525	153.2764	ug/L #	87
26) 11dichlorota	5.35	63	3520473	70.8505	ug/L	91
27) Vinylacetate	5.41	43	13120390	Below	Cal	54
28) chloroprene	5.43	53	6802617	127.4382	ug/L	78
29) Diisopether	5.39	45	6098756	64.0940	ug/L	82
30) ETBE	5.84	59	5287512	67.9759	ug/L	88
31) 22dichloropr	6.05	77	2529608	76.2842	ug/L	92
32) c12dichlorte	6.10	96	2063892	79.5600	ug/L	97
33) 2Butanone	6.12	72	3176712	843.6011	ug/L	92
34) propionitrile	6.25	54	4274849	778.3971	ug/L	92
35) Ethylacetate	6.16	88	511884	356.3779	ug/L #	87
36) methacrylonitrile	6.40	67	2319846	143.8205	ug/L #	45
37) Bromochlorma	6.39	128	785707	76.0918	ug/L	89
38) Tetrahydofur	6.40	42	6894042	576.8159	ug/L	70

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW8.D Vial: 12
Acq On : 18 Aug 2013 13:32 Operator: RLD-BMS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:53 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.49	83	3271595	80.3745 ug/L		94
40)	111trichlota	6.66	97	3021135	69.8167 ug/L		97
42)	Cyclohexane	6.67	56	4089598	74.6500 ug/L		93
43)	Carbtetraclo	6.83	119	2318879	70.8850 ug/L		92
44)	11dicloprope	6.87	110	946564	84.4480 ug/L		92
46)	Benzene	7.11	78	5677310	63.1169 ug/L		77
47)	12dichlorota	7.21	62	2938730	71.3134 ug/L		93
48)	TAME	7.24	73	4143799	78.6529 ug/L		90
49)	trichloroete	7.93	95	1894552	77.0834 ug/L		98
50)	methylcyclohexane	8.10	83	3371004	78.5714 ug/L		96
51)	12dicloropra	8.24	63	2270040	82.9437 ug/L		91
52)	23Dicl1propene	8.30	75	2776753	79.8812 ug/L		89
53)	Dibromometha	8.39	93	1283654	85.6443 ug/L		95
54)	methylmethacrylate	8.37	69	1733583	101.2069 ug/L		97
55)	14dioxane	8.39	88	952584	4272.0049 ug/L		98
56)	Bromodiclrma	8.59	83	2360863	69.7514 ug/L		91
57)	2Nitropropane	8.93	43	9994624	569.0097 ug/L	#	75
58)	2CLEVE	8.98	63	5819860	329.6274 ug/L		79
59)	c13dicloproe	9.16	75	2908039	72.1505 ug/L		89
60)	4Meth2Pentan	9.34	43	10045201	Below Cal	#	61
62)	Toluene	9.54	92	5056849	78.6118 ug/L	#	82
63)	t13Dicloprop	9.91	75	2653755	70.0223 ug/L		91
64)	ethylmethacrylate	9.96	69	5008924	150.6603 ug/L		93
65)	112Triclotha	10.14	83	1487712	85.4428 ug/L		95
66)	Tetrachlorte	10.24	166	2024937	84.4587 ug/L		95
67)	13Diclorpropa	10.36	76	2821373	76.1302 ug/L		90
69)	2Hexanone	10.44	43	9500784	364.0848 ug/L	#	70
70)	Clorodibrmta	10.63	129	1952789	70.1124 ug/L		97
71)	12Dibrometha	10.78	107	1777797	82.2802 ug/L		96
72)	Chlorobenzen	11.43	112	4310131	68.0260 ug/L		94
73)	1Clhexane	11.39	91	2745354	74.4579 ug/L		94
74)	1112Tetclota	11.56	131	1863338	69.7505 ug/L		96
75)	Ethylbenzene	11.55	91	6899025	56.6470 ug/L		75
76)	m p-Xylene	11.72	106	5909374	136.6872 ug/L	#	60
77)	o-Xylene	12.26	106	3185697	74.6463 ug/L	#	72
78)	Styrene	12.30	104	5122389	73.1697 ug/L		89
79)	Bromoform	12.57	173	1395838	67.4377 ug/L		95
80)	Isopropylben	12.77	105	6253304	60.5877 ug/L		82
81)	cyclohexanone	12.95	55	2015556	1408.1161 ug/L		93
84)	Bromobenzene	13.24	156	2081212	73.7848 ug/L		96
85)	1122Tetrclta	13.28	83	2703808	69.3544 ug/L		89
86)	123Triclproa	13.35	75	3322762	80.1520 ug/L		99
87)	14dichloro2butene	13.35	75	3322762	80.1520 ug/L		93
88)	n-Propylbenz	13.35	91	7444313	50.4730 ug/L		73
89)	2chlorotolue	13.50	91	5448101	60.1339 ug/L		84
90)	4chlorotolue	13.67	91	5729508	59.8980 ug/L		80
91)	135Trimebenz	13.61	105	5946626	58.6024 ug/L		83
92)	tbutylbenzen	14.06	119	5057680	62.2518 ug/L		96
93)	124Trimetben	14.16	105	5823539	59.2173 ug/L		82
94)	sbutylbenzen	14.39	105	6689196	56.6703 ug/L		79
95)	13Diclorbenz	14.59	146	3486356	68.7239 ug/L		88
96)	pIsopropylto	14.60	119	5928094	59.7719 ug/L		82
97)	14dichlorobe	14.73	146	3671291	66.3540 ug/L		91
98)	12dichlorobe	15.27	146	3305274	67.9772 ug/L		93
99)	nButylbenzen	15.20	91	5734393	71.5819 ug/L		86
100)	12dibromo3cl	16.41	157	576326	65.7889 ug/L		85
101)	135Trichlorobenzene	16.66	180	2730326	70.4215 ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW8.D Vial: 12
Acq On : 18 Aug 2013 13:32 Operator: RLD-BMS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:53 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.51	180	2393514	72.6829 ug/L	97
103) Hexachlorobu	17.69	225	1348034	67.2763 ug/L	97
104) Naphthalene	17.82	128	5200514	58.6793 ug/L	86
105) 123Trichlben	18.15	180	2314219	74.0694 ug/L	97

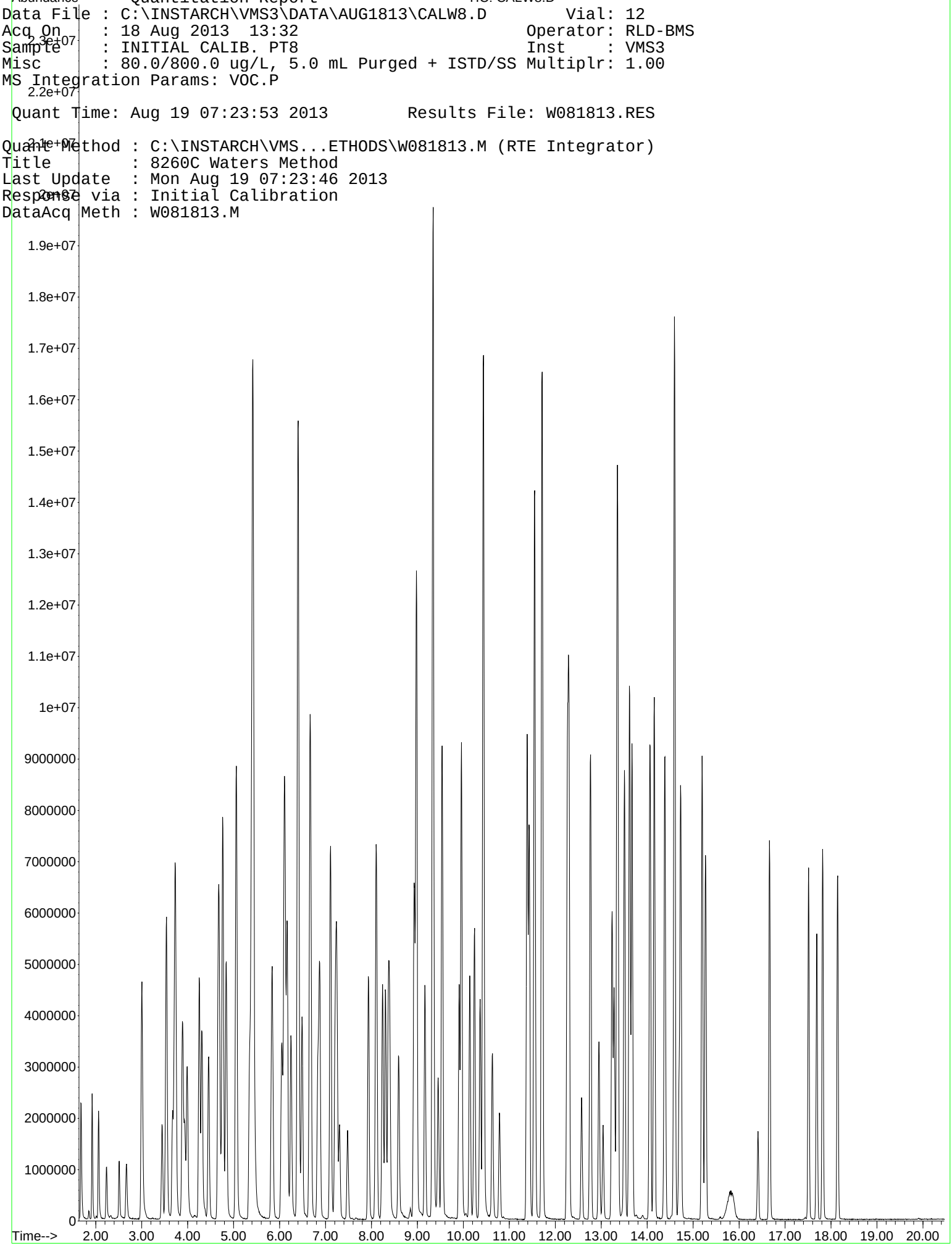
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALW8.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\CALW8.D Vial: 12
Acq On : 18 Aug 2013 13:32 Operator: RLD-BMS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:23:53 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:23:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV1.D Vial: 14
Acq On : 18 Aug 2013 14:32 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Aug 19 07:37:48 2013

Quant Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W081813.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	101	0.00
2	PT	Dichlorodi	0.325	0.380	-16.9	102	0.00
3	PT	Chloromethan	0.372	0.412	-10.8	100	0.00
4	PT	VinylChlorid	0.325	0.351	-8.0	97	0.00
5	PT	Bromomethane	0.100	0.111	-11.0	107	0.00
6	PT	Chloroethane	0.175	0.179	-2.3	105	0.00
7	T	Dichloroflmethane	0.509	0.540	-6.1	98	0.00
8	PT	Trichlorofma	0.378	0.430	-13.8	98	0.00
9	T	Ethylether	0.245	0.243	0.8	102	0.00
10	T	dichlorotfluoroethan	0.267	0.311	-16.5	99	0.00
11	T	propyleneoxide	0.051	0.056	-9.8	104	0.00
12	T	Acrolein	0.062	0.055	11.3	87	0.00
13	PT	11dichlorthe	0.195	0.213	-9.2	100	0.00
14	PT	Trichlorotfluoroeth	0.184	0.200	-8.7	99	0.00
15	PT	Acetone	0.133	0.128	3.8	99	0.00
16	T	Iodomethane	0.136	0.122	10.3	87	0.00
17	PT	Carbon Dislf	0.410	0.473	-15.4	100	0.00
18	T	allylchloride	0.363	0.407	-12.1	100	0.00
19	PT	methylacetate	0.227	0.239	-5.3	101	0.00
20	PT	Methylchlorid	0.261	0.261	0.0	103	0.00
21	T	tbutylalcohol	0.036	0.040	-11.1	97	0.00
22	T	Acrylonitrile	0.157	0.165	-5.1	98	0.00
23	PT	t12dichlorte	0.257	0.268	-4.3	97	0.00
24	PT	MtBE	0.701	0.734	-4.7	106	-0.01
25	T	Hexane	0.495	0.543	-9.7	92	0.00
26	PT	11dichlorota	0.561	0.594	-5.9	98	0.00
27	T	Vinylacetate	0.452	0.508	-12.4	100	0.00
28	T	chloroprene	0.596	0.657	-10.2	101	0.00
29	T	Diisopether	1.063	1.120	-5.4	99	0.00
30	T	ETBE	0.874	0.918	-5.0	101	-0.01
31	T	22dichloropr	0.345	0.346	-0.3	95	0.00
32	PT	c12dichlorte	0.297	0.298	-0.3	97	-0.01
33	PT	2Butanone	0.043	0.044#	-2.3	94	0.00
34	T	propionitrile	0.063	0.066	-4.8	97	0.00
35	T	Ethylacetate	0.011	0.011#	0.0	84	0.00
36	T	methacrylonitrile	0.149	0.150	-0.7	102	0.00
37	T	Bromochlorma	0.118	0.107	9.3	90	0.00
38	T	Tetrahydofur	0.132	0.142	-7.6	95	0.00
39	PT	Chloroform	0.466	0.479	-2.8	99	0.00
40	PT	111trichlota	0.409	0.452	-10.5	104	0.00
41	S	SURRDibrflma	0.244	0.237	2.9	97	0.00
42	PT	Cyclohexane	0.604	0.661	-9.4	95	0.00
43	PT	Carbtetraclo	0.289	0.320	-10.7	102	0.00
44	T	11dicloprope	0.131	0.127	3.1	94	0.00
45	S	SURR12DCAd4	0.067	0.064	4.5	95	0.00
46	PT	Benzene	1.003	1.088	-8.5	99	0.00
47	PT	12dichlorota	0.466	0.460	1.3	94	0.00
48	T	TAME	0.602	0.603	-0.2	99	0.00

49	PT	trichloroete	0.280	0.299	-6.8	102	0.00
50	PT	methylcyclohexane	0.461	0.519	-12.6	92	0.00
51	PT	12dicloropra	0.315	0.346	-9.8	108	0.00
52	T	23Dicl1propene	0.398	0.398	0.0	98	0.00
53	T	Dibromometha	0.173	0.175	-1.2	103	-0.01
54	T	methylmethacrylate	0.203	0.241	-18.7	114	0.00
55	T	14dioxane	0.003	0.003#	0.0	93	0.00
56	PT	Bromodiclrma	0.312	0.312	0.0	94	0.00
57	T	2Nitropropane	0.126	0.183	-45.2#	171	0.00
58	T	2CLEVE	0.198	0.229	-15.7	104	0.00
59	PT	c13dicloproe	0.391	0.386	1.3	94	0.00
60	PT	4Meth2Pentan	0.362	0.390	-7.7	97	0.00
61	S	SURRd8Tolule	1.134	1.103	2.7	102	0.00
62	PT	Toluene	0.735	0.757	-3.0	98	0.00
63	PT	t13Dicloprop	0.313	0.349	-11.5	110	0.00
64	T	ethylmethacrylate	0.378	0.402	-6.3	103	0.00
65	PT	112Triclotha	0.201	0.203	-1.0	100	0.00
66	PT	Tetrachlorte	0.277	0.296	-6.9	98	0.00
67	T	13Diclorpropa	0.422	0.443	-5.0	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	99	0.00
69	PT	2Hexanone	0.406	0.437	-7.6	98	0.00
70	PT	Clorodibrmta	0.309	0.318	-2.9	108	-0.01
71	PT	12Dibrometha	0.338	0.343	-1.5	102	0.00
72	PT	Chlorobenzen	0.968	1.012	-4.5	103	0.00
73	T	1Clhexane	0.569	0.596	-4.7	96	0.00
74	T	1112Tetclota	0.313	0.330	-5.4	104	0.00
75	PT	Ethylbenzene	1.827	2.039	-11.6	102	0.00
76	PT	m p-Xylene	0.661	0.701	-6.1	97	0.00
77	PT	o-Xylene	0.659	0.655	0.6	95	0.00
78	PT	Styrene	1.078	1.133	-5.1	100	0.00
79	PT	Bromoform	0.218	0.221	-1.4	107	0.00
80	PT	Isopropylben	1.558	1.772	-13.7	100	0.00
81	T	cyclohexanone	0.022	0.023#	-4.5	98	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.000	1.000	0.0	94	0.00
83	S	SURR4BrFBenz	1.047	1.136	-8.5	103	0.00
84	T	Bromobenzene	0.660	0.756	-14.5	101	0.00
85	PT	1122Tetrclta	0.905	1.036	-14.5	102	0.00
86	T	123Triclproa	0.979	1.039	-6.1	99	0.00
87	T	14dichloro2butene	0.979	1.039	-6.1	99	0.00
88	T	n-Propylbenz	3.483	4.077	-17.1	101	0.00
89	T	2chlorotolue	2.073	2.379	-14.8	100	0.00
90	T	4chlorotolue	2.188	2.469	-12.8	100	0.00
91	T	135Trimebenz	2.317	2.770	-19.6	101	0.00
92	T	tbutylbenzen	1.866	2.159	-15.7	99	0.00
93	T	124Trimetben	2.247	2.686	-19.5	101	0.00
94	T	sbutylbenzen	2.788	3.341	-19.8	100	0.00
95	PT	13Diclorbenz	1.177	1.302	-10.6	100	0.00
96	T	pIsopropylto	2.268	2.682	-18.3	101	0.00
97	PT	14dichlorobe	1.279	1.395	-9.1	97	0.00
98	PT	12dichlorobe	1.127	1.204	-6.8	99	0.00
99	T	nButylbenzen	2.205	2.631	-19.3	98	0.00
100	PT	12dibromo3cl	0.161	0.173	-7.5	96	0.00
101	T	135Trichlorobenzene	0.902	1.026	-13.7	95	0.00
102	PT	124Trichlobe	0.769	0.920	-19.6	103	0.00
103	T	Hexachlorobu	0.396	0.456	-15.2	99	0.00
104	T	Naphthalene	2.023	2.242	-10.8	90	0.00
105	T	123Trichlben	0.731	0.865	-18.3	98	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

W081813.M Tue Aug 20 14:41:28 2013

Evaluate Continuing Calibration Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV1.D Vial: 14
Acq On : 18 Aug 2013 14:32 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Aug 19 07:37:48 2013

Quant Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W081813.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.000	20.000	0.0	101	0.00
2	PT	Dichlorodi	10.000	11.691	-16.9	102	0.00
3	PT	Chloromethan	10.000	11.049	-10.5	100	0.00
4	PT	VinylChlorid	10.000	10.803	-8.0	97	0.00
5	PT	Bromomethane	10.000	11.079	-10.8	107	0.00
6	PT	Chloroethane	10.000	10.248	-2.5	105	0.00
7	T	Dichloroflmethane	10.000	10.618	-6.2	98	0.00
8	PT	Trichlorofma	10.000	11.371	-13.7	98	0.00
9	T	Ethylether	10.000	10.483	-4.8	102	0.00
10	T	dichlorotfluoroethan	10.000	10.363	-3.6	99	0.00
11	T	propyleneoxide	100.000	110.114	-10.1	104	0.00
12	T	Acrolein	50.000	44.094	11.8	87	0.00
13	PT	11dichlorthe	10.000	10.916	-9.2	100	0.00
14	PT	Trichlorotfluoroeth	20.000	21.727	-8.6	99	0.00
15	PT	Acetone	100.000	99.897	0.1	99	0.00
16	T	Iodomethane	20.000	13.298	33.5#	87	0.00
17	PT	Carbon Dislf	20.000	23.106	-15.5	100	0.00
18	T	allylchloride	20.000	22.436	-12.2	100	0.00
19	PT	methylacetate	10.000	10.529	-5.3	101	0.00
20	PT	Methylchlorid	10.000	9.988	0.1	103	0.00
21	T	tbutylalcohol	500.000	558.527	-11.7	97	0.00
22	T	Acrylonitrile	50.000	52.692	-5.4	98	0.00
23	PT	t12dichlorte	10.000	10.423	-4.2	97	0.00
24	PT	MtBE	10.000	10.465	-4.6	106	-0.01
25	T	Hexane	20.000	19.026	4.9	92	0.00
26	PT	11dichlorota	10.000	10.583	-5.8	98	0.00
27	T	Vinylacetate	100.000	108.258	-8.3	100	0.00
28	T	chloroprene	20.000	22.046	-10.2	101	0.00
29	T	Diisopether	10.000	10.541	-5.4	99	0.00
30	T	ETBE	10.000	10.497	-5.0	101	-0.01
31	T	22dichloropr	10.000	10.039	-0.4	95	0.00
32	PT	c12dichlorte	10.000	10.043	-0.4	97	-0.01
33	PT	2Butanone	100.000	100.314	-0.3	94	0.00
34	T	propionitrile	100.000	105.569	-5.6	97	0.00
35	T	Ethylacetate	50.000	43.860	12.3	84	0.00
36	T	methacrylonitrile	20.000	20.100	-0.5	102	0.00
37	T	Bromochlorma	10.000	9.144	8.6	90	0.00
38	T	Tetrahydofur	100.000	107.169	-7.2	95	0.00
39	PT	Chloroform	10.000	10.259	-2.6	99	0.00
40	PT	111trichlota	10.000	11.050	-10.5	104	0.00
41	S	SURRDibrflma	19.000	18.479	2.7	97	0.00
42	PT	Cyclohexane	10.000	9.428	5.7	95	0.00
43	PT	Carbtetraclo	10.000	9.491	5.1	102	0.00
44	T	11dicloprope	10.000	9.660	3.4	94	0.00
45	S	SURR12DCAd4	19.000	18.079	4.8	95	0.00
46	PT	Benzene	10.000	10.850	-8.5	99	0.00
47	PT	12dichlorota	10.000	9.871	1.3	94	0.00
48	T	TAME	10.000	10.021	-0.2	99	0.00

49	PT	trichloroete	10.000	10.670	-6.7	102	0.00
50	PT	methylcyclohexane	10.000	9.396	6.0	92	0.00
51	PT	12dicloropra	10.000	10.975	-9.7	108	0.00
52	T	23Dicl1propene	10.000	10.007	-0.1	98	0.00
53	T	Dibromometha	10.000	10.080	-0.8	103	-0.01
54	T	methylmethacrylate	10.000	10.289	-2.9	114	0.00
55	T	14dioxane	500.000	550.690	-10.1	93	0.00
56	PT	Bromodiclrma	10.000	9.995	0.1	94	0.00
57	T	2Nitropropane	100.000	95.845	4.2	171	0.00
58	T	2CLEVE	50.000	57.799	-15.6	104	0.00
59	PT	c13dicloproe	10.000	9.874	1.3	94	0.00
60	PT	4Meth2Pentan	100.000	103.411	-3.4	97	0.00
61	S	SURRd8Tolule	19.000	18.481	2.7	102	0.00
62	PT	Toluene	10.000	10.298	-3.0	98	0.00
63	PT	t13Dicloprop	10.000	9.478	5.2	110	0.00
64	T	ethylmethacrylate	20.000	21.283	-6.4	103	0.00
65	PT	112Triclotha	10.000	10.107	-1.1	100	0.00
66	PT	Tetrachlorte	10.000	10.700	-7.0	98	0.00
67	T	13Diclorpropa	10.000	10.489	-4.9	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.000	20.000	0.0	99	0.00
69	PT	2Hexanone	100.000	107.669	-7.7	98	0.00
70	PT	Clorodibrmta	10.000	9.468	5.3	108	-0.01
71	PT	12Dibrometha	10.000	10.172	-1.7	102	0.00
72	PT	Chlorobenzen	10.000	10.450	-4.5	103	0.00
73	T	1Clhexane	10.000	10.472	-4.7	96	0.00
74	T	1112Tetclota	10.000	9.462	5.4	104	0.00
75	PT	Ethylbenzene	10.000	11.158	-11.6	102	0.00
76	PT	m p-Xylene	20.000	21.199	-6.0	97	0.00
77	PT	o-Xylene	10.000	9.933	0.7	95	0.00
78	PT	Styrene	10.000	10.509	-5.1	100	0.00
79	PT	Bromoform	10.000	8.854	11.5	107	0.00
80	PT	Isopropylben	10.000	11.374	-13.7	100	0.00
81	T	cyclohexanone	200.000	208.869	-4.4	98	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.000	20.000	0.0	94	0.00
83	S	SURR4BrFBenz	19.000	20.618	-8.5	103	0.00
84	T	Bromobenzene	10.000	10.417	-4.2	101	0.00
85	PT	1122Tetrclta	10.000	11.439	-14.4	102	0.00
86	T	123Triclproa	10.000	10.609	-6.1	99	0.00
87	T	14dichloro2butene	10.000	10.609	-6.1	99	0.00
88	T	n-Propylbenz	10.000	11.703	-17.0	101	0.00
89	T	2chlorotolue	10.000	11.475	-14.7	100	0.00
90	T	4chlorotolue	10.000	11.282	-12.8	100	0.00
91	T	135Trimebenz	10.000	11.956	-19.6	101	0.00
92	T	tbutylbenzen	10.000	11.571	-15.7	99	0.00
93	T	124Trimetben	10.000	11.954	-19.5	101	0.00
94	T	sbutylbenzen	10.000	11.984	-19.8	100	0.00
95	PT	13Diclorbenz	10.000	11.063	-10.6	100	0.00
96	T	pIsopropylto	10.000	11.824	-18.2	101	0.00
97	PT	14dichlorobe	10.000	10.905	-9.0	97	0.00
98	PT	12dichlorobe	10.000	10.687	-6.9	99	0.00
99	T	nButylbenzen	10.000	11.932	-19.3	98	0.00
100	PT	12dibromo3cl	10.000	9.251	7.5	96	0.00
101	T	135Trichlorobenzene	10.000	11.375	-13.8	95	0.00
102	PT	124Trichlobe	10.000	11.964	-19.6	103	0.00
103	T	Hexachlorobu	10.000	11.530	-15.3	99	0.00
104	T	Naphthalene	10.000	11.078	-10.8	90	0.00
105	T	123Trichlben	10.000	11.836	-18.4	98	0.00

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

W081813.M Tue Aug 20 14:41:47 2013

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV1.D Vial: 14
Acq On : 18 Aug 2013 14:32 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:37:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:37:43 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1536291	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1064103	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	596602	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	345986	18.479	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 97 %			
45) SURR12DCAd4	7.12	102	93341	18.079	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 95 %			
61) SURRd8Tolule	9.45	98	1609761	18.481	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 97 %			
83) SURR4BrFBenz	13.04	95	643688	20.618	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 109 %			
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	292224	11.6907	ug/L	97
3) Chloromethan	1.92	50	316102	11.0494	ug/L	98
4) VinylChlorid	2.06	62	269385	10.8027	ug/L	100
5) Bromomethane	2.51	94	85140	11.0787	ug/L	88
6) Chloroethane	2.67	64	137474	10.2485	ug/L	99
7) Dichloroflmethane	3.00	67	415015	10.6182	ug/L	97
8) Trichlorofma	3.00	101	330346	11.3706	ug/L	98
9) Ethylether	3.45	59	186942	10.4828	ug/L	98
10) dichlorotfluoroethan	3.53	67	238970	10.3628	ug/L	98
11) propyleneoxide	3.54	58	430070	110.1135	ug/L	96
12) Acrolein	3.67	56	210299	44.0938	ug/L	92
13) 11dichlorthe	3.74	96	163907	10.9164	ug/L	99
14) Trichlorotfluoroeth	3.72	101	306712	21.7273	ug/L	96
15) Acetone	3.89	43	979731	99.8975	ug/L	100
16) Iodomethane	3.93	142	186947	13.2982	ug/L	97
17) Carbon Dislf	3.99	76	727212	23.1057	ug/L	99
18) allylchloride	4.25	41	624831	22.4357	ug/L	99
19) methylacetate	4.31	74	183895	10.5286	ug/L	92
20) Methylchlorid	4.45	84	200360	9.9883	ug/L	95
21) tbutylalcohol	4.67	59	1534440	558.5274	ug/L	99
22) Acrylonitrile	4.84	53	634630	52.6922	ug/L	100
23) t12dichlorte	4.77	96	205720	10.4226	ug/L	96
24) MtBE	4.76	73	563886	10.4648	ug/L	97
25) Hexane	5.05	57	833574	19.0259	ug/L	99
26) 11dichlorota	5.35	63	456045	10.5833	ug/L	98
27) Vinylacetate	5.41	43	3905156	108.2578	ug/L	99
28) chloroprene	5.43	53	1009008	22.0459	ug/L	99
29) Diisopether	5.39	45	860500	10.5409	ug/L	99
30) ETBE	5.83	59	704893	10.4974	ug/L	99
31) 22dichloropr	6.05	77	266035	10.0394	ug/L	98
32) c12dichlorte	6.09	96	229064	10.0435	ug/L	98
33) 2Butanone	6.12	72	334605	100.3142	ug/L	95
34) propionitrile	6.25	54	508355	105.5688	ug/L	98
35) Ethylacetate	6.17	88	41736	43.8597	ug/L #	80
36) methacrylonitrile	6.40	67	229929	20.0998	ug/L	96
37) Bromochlorma	6.39	128	82561	9.1439	ug/L #	83
38) Tetrahydofur	6.40	42	1087607	107.1692	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV1.D Vial: 14
Acq On : 18 Aug 2013 14:32 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:37:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:37:43 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.49	83	367621	10.2595	ug/L		98
40)	111trichlota	6.66	97	347564	11.0497	ug/L		98
42)	Cyclohexane	6.67	56	507374	9.4281	ug/L		99
43)	Carbtetraclo	6.84	119	246047	9.4909	ug/L		95
44)	11dicloprope	6.87	110	97555	9.6600	ug/L		91
46)	Benzene	7.11	78	835995	10.8502	ug/L		98
47)	12dichlorota	7.21	62	353003	9.8706	ug/L		100
48)	TAME	7.24	73	463501	10.0208	ug/L		97
49)	trichloroete	7.93	95	229670	10.6699	ug/L		99
50)	methylcyclohexane	8.10	83	398748	9.3957	ug/L		97
51)	12dicloropra	8.25	63	265472	10.9748	ug/L		98
52)	23Dicl1propene	8.31	75	305987	10.0071	ug/L		97
53)	Dibromometha	8.39	93	134097	10.0803	ug/L		93
54)	methylmethacrylate	8.37	69	184912	10.2887	ug/L		91
55)	14dioxane	8.39	88	108952	550.6900	ug/L		97
56)	Bromodiclrma	8.59	83	239798	9.9949	ug/L		92
57)	2Nitropropane	8.93	43	1402236	95.8447	ug/L	#	67
58)	2CLEVE	8.98	63	878079	57.7991	ug/L		99
59)	c13dicloproe	9.17	75	296281	9.8736	ug/L		95
60)	4Meth2Pentan	9.34	43	2995132	103.4112	ug/L		99
62)	Toluene	9.54	92	581559	10.2983	ug/L		96
63)	t13Dicloprop	9.91	75	268254	9.4776	ug/L		98
64)	ethylmethacrylate	9.96	69	617979	21.2828	ug/L		97
65)	112Triclotha	10.15	83	156151	10.1075	ug/L		96
66)	Tetrachlorte	10.25	166	227268	10.6998	ug/L		97
67)	13Diclorpropa	10.36	76	339920	10.4888	ug/L		97
69)	2Hexanone	10.43	43	2327662	107.6694	ug/L		98
70)	Clorodibrmta	10.63	129	169082	9.4678	ug/L		94
71)	12Dibrometha	10.78	107	182733	10.1722	ug/L		99
72)	Chlorobenzen	11.43	112	538267	10.4499	ug/L		97
73)	1Clhexane	11.39	91	317124	10.4724	ug/L		99
74)	1112Tetclota	11.56	131	175431	9.4624	ug/L		99
75)	Ethylbenzene	11.55	91	1084745	11.1581	ug/L		99
76)	m p-Xylene	11.71	106	745447	21.1990	ug/L		95
77)	o-Xylene	12.26	106	348256	9.9330	ug/L		99
78)	Styrene	12.29	104	602969	10.5086	ug/L		100
79)	Bromoform	12.57	173	117516	8.8540	ug/L		97
80)	Isopropylben	12.76	105	943051	11.3741	ug/L		97
81)	cyclohexanone	12.95	55	243973	208.8691	ug/L		99
84)	Bromobenzene	13.23	156	225396	10.4175	ug/L		97
85)	1122Tetrclta	13.29	83	308959	11.4388	ug/L		99
86)	123Triclproa	13.34	75	309939	10.6092	ug/L		99
87)	14dichloro2butene	13.34	75	309939	10.6092	ug/L		97
88)	n-Propylbenz	13.35	91	1216079	11.7028	ug/L		98
89)	2chlorotolue	13.50	91	709710	11.4748	ug/L		99
90)	4chlorotolue	13.67	91	736433	11.2819	ug/L		99
91)	135Trimebenz	13.61	105	826163	11.9557	ug/L		95
92)	tbutylbenzen	14.06	119	643954	11.5708	ug/L		99
93)	124Trimetben	14.15	105	801315	11.9536	ug/L		99
94)	sbutylbenzen	14.38	105	996642	11.9844	ug/L		99
95)	13Diclorbenz	14.59	146	388432	11.0628	ug/L		97
96)	pIsopropylto	14.59	119	800062	11.8236	ug/L		99
97)	14dichlorobe	14.73	146	416038	10.9053	ug/L		95
98)	12dichlorobe	15.27	146	359220	10.6868	ug/L		95
99)	nButylbenzen	15.20	91	784750	11.9316	ug/L		97
100)	12dibromo3cl	16.42	157	51716	9.2509	ug/L		82
101)	135Trichlorobenzene	16.66	180	306068	11.3750	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV1.D Vial: 14
Acq On : 18 Aug 2013 14:32 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:37:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:37:43 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.51	180	274398	11.9637 ug/L	99
103) Hexachlorobu	17.70	225	136165	11.5296 ug/L	94
104) Naphthalene	17.82	128	668689	11.0783 ug/L	99
105) 123Trichlben	18.15	180	258127	11.8360 ug/L	96

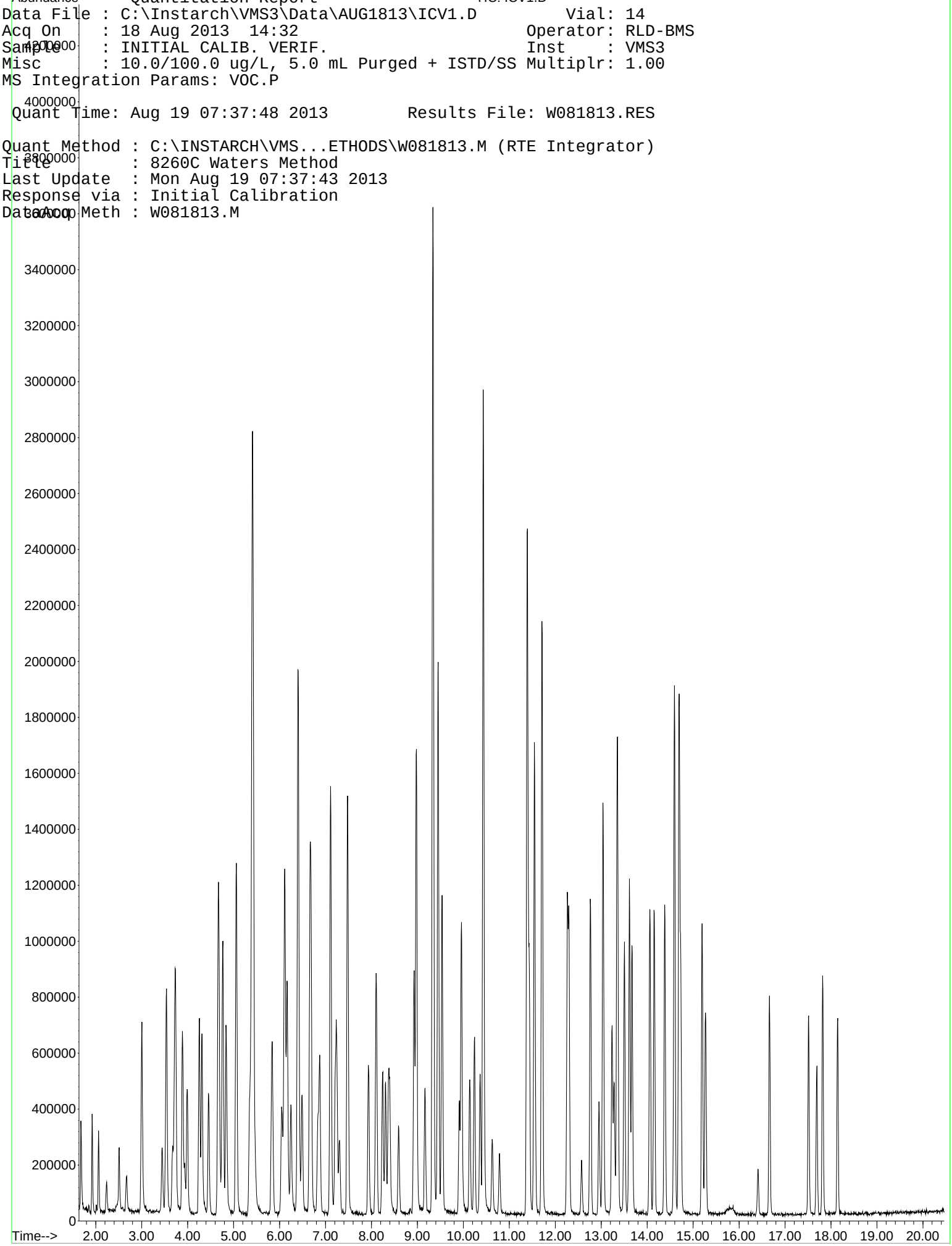
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV1.D

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV1.D Vial: 14
Acq On : 18 Aug 2013 14:32 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:37:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:37:43 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV2.D Vial: 15
Acq On : 18 Aug 2013 15:01 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Aug 19 07:39:43 2013

Quant Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W081813.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.000	20.000	0.0	101	0.00
2	PT	Dichlorodi	30.000	34.894	-16.3	110	0.00
3	PT	Chloromethan	30.000	31.075	-3.6	104	0.00
4	PT	VinylChlorid	30.000	32.759	-9.2	106	0.00
5	PT	Bromomethane	30.000	37.808	-26.0#	131	0.00
6	PT	Chloroethane	30.000	30.553	-1.8	100	0.00
7	T	Dichloroflmethane	30.000	30.302	-1.0	99	0.00
8	PT	Trichlorofma	30.000	33.179	-10.6	103	0.00
9	T	Ethylether	30.000	30.323	-1.1	103	0.00
10	T	dichlorotfluoroethan	30.000	30.641	-2.1	102	0.00
11	T	propyleneoxide	300.000	304.266	-1.4	99	0.00
12	T	Acrolein	150.000	141.978	5.3	97	0.00
13	PT	11dichlorthe	30.000	32.086	-7.0	100	0.00
14	PT	Trichlorotfluoroeth	60.000	65.199	-8.7	103	0.00
15	PT	Acetone	300.000	333.512	-11.2	118	0.00
16	T	Iodomethane	60.000	61.314	-2.2	103	0.00
17	PT	Carbon Dislf	60.000	71.325	-18.9	111	0.00
18	T	allylchloride	60.000	66.081	-10.1	105	0.00
19	PT	methylacetate	30.000	29.901	0.3	100	-0.01
20	PT	Methylchlorid	30.000	28.458	5.1	103	0.00
21	T	tbutylalcohol	1500.000	1457.860	2.8	98	0.00
22	T	Acrylonitrile	150.000	148.196	1.2	99	0.00
23	PT	t12dichlorte	30.000	31.074	-3.6	97	0.00
24	PT	MtBE	30.000	29.797	0.7	99	0.00
25	T	Hexane	60.000	61.427	-2.4	103	0.00
26	PT	11dichlorota	30.000	30.039	-0.1	99	0.00
27	T	Vinylacetate	300.000	288.580	3.8	101	0.00
28	T	chloroprene	60.000	64.765	-7.9	101	0.00
29	T	Diisopether	30.000	29.840	0.5	101	0.00
30	T	ETBE	30.000	30.225	-0.8	99	-0.01
31	T	22dichloropr	30.000	31.280	-4.3	98	0.00
32	PT	c12dichlorte	30.000	29.069	3.1	96	-0.01
33	PT	2Butanone	300.000	317.842	-5.9	102	0.00
34	T	propionitrile	300.000	312.752	-4.3	97	0.00
35	T	Ethylacetate	150.000	144.747	3.5	100	-0.01
36	T	methacrylonitrile	60.000	61.514	-2.5	96	0.00
37	T	Bromochlorma	30.000	27.347	8.8	94	0.00
38	T	Tetrahydofur	300.000	289.047	3.7	98	0.00
39	PT	Chloroform	30.000	29.799	0.7	96	0.00
40	PT	111trichlota	30.000	33.008	-10.0	98	0.00
41	S	SURRDibrflma	19.000	20.327	-7.0	107	0.00
42	PT	Cyclohexane	30.000	30.584	-1.9	102	0.00
43	PT	Carbtetraclo	30.000	30.292	-1.0	99	0.00
44	T	11dicloprope	30.000	30.793	-2.6	97	0.00
45	S	SURR12DCAd4	19.000	20.729	-9.1	111	0.00
46	PT	Benzene	30.000	29.707	1.0	100	0.00
47	PT	12dichlorota	30.000	29.535	1.5	97	0.00
48	T	TAME	30.000	31.277	-4.3	101	0.00

49	PT	trichloroete	30.000	31.238	-4.1	100	0.00	
50	PT	methylcyclohexane	30.000	30.822	-2.7	102	0.00	
51	PT	12dicloropra	30.000	31.115	-3.7	102	0.00	
52	T	23Dicl1propene	30.000	31.091	-3.6	97	0.00	
53	T	Dibromometha	30.000	29.444	1.9	98	-0.01	
54	T	methylmethacrylate	30.000	30.852	-2.8	105	0.00	
55	T	14dioxane	1500.000	1561.841	-4.1	96	0.00	
56	PT	Bromodiclrma	30.000	32.636	-8.8	99	0.00	
57	T	2Nitropropane	300.000	308.279	-2.8	99	0.00	
58	T	2CLEVE	150.000	162.298	-8.2	102	0.00	
59	PT	c13dicloproe	30.000	32.869	-9.6	98	0.00	
60	PT	4Meth2Pentan	300.000	286.769	4.4	99	0.00	
61	S	SURRd8Tolule	19.000	19.591	-3.1	102	0.00	
62	PT	Toluene	30.000	30.597	-2.0	99	0.00	
63	PT	t13Dicloprop	30.000	29.025	3.3	96	0.00	
64	T	ethylmethacrylate	60.000	62.013	-3.4	98	0.00	
65	PT	112Triclotha	30.000	29.787	0.7	96	0.00	
66	PT	Tetrachlorte	30.000	32.245	-7.5	99	0.00	
67	T	13Diclorpropa	30.000	30.432	-1.4	98	0.00	
68	I	d5-CHLOROBENZENE**ISTD**	20.000	20.000	0.0	102	0.00	
69	PT	2Hexanone	300.000	249.728	16.8	100	0.00	
70	PT	Clorodibrmta	30.000	28.135	6.2	96	-0.01	
71	PT	12Dibrometha	30.000	29.988	0.0	96	0.00	
72	PT	Chlorobenzen	30.000	29.083	3.1	98	0.00	
73	T	1Clhexane	30.000	32.349	-7.8	103	0.00	
74	T	1112Tetclota	30.000	28.670	4.4	99	0.00	
75	PT	Ethylbenzene	30.000	29.228	2.6	99	0.00	
76	PT	m p-Xylene	60.000	60.284	-0.5	97	0.00	
77	PT	o-Xylene	30.000	29.154	2.8	96	0.00	
78	PT	Styrene	30.000	30.551	-1.8	98	0.00	
79	PT	Bromoform	30.000	28.584	4.7	96	0.00	
80	PT	Isopropylben	30.000	29.851	0.5	97	0.00	
81	T	cyclohexanone	600.000	592.046	1.3	96	-0.01	
82	I	d4-1,4-DICHLOROBENZENE**IS	20.000	20.000	0.0	101	0.00	
83	S	SURR4BrFBenz	19.000	18.389	3.2	100	0.00	
84	T	Bromobenzene	30.000	29.307	2.3	98	0.00	
85	PT	1122Tetrclta	30.000	28.320	5.6	93	0.00	
86	T	123Triclproa	30.000	30.249	-0.8	96	0.00	
87	T	14dichloro2butene	30.000	30.249	-0.8	96	0.00	
88	T	n-Propylbenz	30.000	27.283	9.1	96	0.00	
89	T	2chlorotolue	30.000	28.585	4.7	96	0.00	
90	T	4chlorotolue	30.000	28.403	5.3	94	0.00	
91	T	135Trimebenz	30.000	29.624	1.3	97	0.00	
92	T	tbutylbenzen	30.000	29.701	1.0	96	0.00	
93	T	124Trimetben	30.000	30.176	-0.6	100	0.00	
94	T	sbutylbenzen	30.000	28.687	4.4	96	0.00	
95	PT	13Diclorbenz	30.000	28.593	4.7	95	0.00	
96	T	pIsopropylto	30.000	29.511	1.6	95	0.00	
97	PT	14dichlorobe	30.000	29.337	2.2	98	0.00	
98	PT	12dichlorobe	30.000	28.539	4.9	96	0.00	
99	T	nButylbenzen	30.000	30.955	-3.2	99	0.00	
100	PT	12dibromo3cl	30.000	27.022	9.9	91	0.00	
101	T	135Trichlorobenzene	30.000	31.864	-6.2	102	0.00	
102	PT	124Trichlobe	30.000	31.299	-4.3	100	0.00	
103	T	Hexachlorobu	30.000	32.356	-7.9	95	0.00	
104	T	Naphthalene	30.000	29.393	2.0	95	0.00	
105	T	123Trichlben	30.000	31.383	-4.6	96	0.00	

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

W081813.M Tue Aug 20 14:42:20 2013

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV2.D Vial: 15
Acq On : 18 Aug 2013 15:01 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:39:43 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1615608	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1149633	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.69	152	714333	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	400231	20.327	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 107	%		
45) SURR12DCAd4	7.12	102	112550	20.729	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 109	%		
61) SURRd8Tolule	9.45	98	1794519	19.591	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 103	%		
83) SURR4BrFBenz	13.04	95	687377	18.389	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 97	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	917253	34.8940	ug/L	98
3) Chloromethan	1.93	50	934892	31.0750	ug/L	97
4) VinylChlorid	2.06	62	859077	32.7590	ug/L	98
5) Bromomethane	2.51	94	305559	37.8085	ug/L	98
6) Chloroethane	2.68	64	430999	30.5528	ug/L	99
7) Dichloroflmethane	3.00	67	1245520	30.3022	ug/L	99
8) Trichlorofma	3.01	101	1013711	33.1791	ug/L	100
9) Ethylether	3.44	59	547962	30.3235	ug/L	99
10) dichlorotfluoroethan	3.53	67	718330	30.6414	ug/L	97
11) propyleneoxide	3.54	58	1249725	304.2660	ug/L	96
12) Acrolein	3.67	56	712102	141.9777	ug/L	99
13) 11dichlorthe	3.73	96	506641	32.0862	ug/L	94
14) Trichlorotfluoroeth	3.72	101	967889	65.1987	ug/L	97
15) Acetone	3.89	43	2971098	333.5119	ug/L	90
16) Iodomethane	3.94	142	866501	61.3145	ug/L	97
17) Carbon Dislf	3.99	76	2360745	71.3253	ug/L	95
18) allylchloride	4.26	41	1935371	66.0812	ug/L	99
19) methylacetate	4.31	74	549216	29.9007	ug/L	93
20) Methylchlorid	4.46	84	600315	28.4576	ug/L	92
21) tbutylalcohol	4.67	59	4211956	1457.8603	ug/L	98
22) Acrylonitrile	4.84	53	1877032	148.1955	ug/L	98
23) t12dichlorte	4.77	96	644998	31.0740	ug/L	97
24) MtBE	4.76	73	1688446	29.7965	ug/L	99
25) Hexane	5.06	57	2583547	61.4270	ug/L	96
26) 11dichlorota	5.35	63	1361232	30.0389	ug/L	95
27) Vinylacetate	5.41	43	8504723	288.5798	ug/L	86
28) chloroprene	5.43	53	3117233	64.7651	ug/L	94
29) Diisopether	5.39	45	2561726	29.8398	ug/L	93
30) ETBE	5.83	59	2134355	30.2249	ug/L	97
31) 22dichloropr	6.05	77	871681	31.2799	ug/L	98
32) c12dichlorte	6.09	96	697216	29.0691	ug/L	91
33) 2Butanone	6.12	72	1114920	317.8420	ug/L	98
34) propionitrile	6.25	54	1583780	312.7524	ug/L	98
35) Ethylacetate	6.16	88	152496	144.7470	ug/L #	94
36) methacrylonitrile	6.40	67	740013	61.5140	ug/L #	80
37) Bromochlorma	6.39	128	259664	27.3468	ug/L	93
38) Tetrahydofur	6.40	42	3084844	289.0472	ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV2.D Vial: 15
Acq On : 18 Aug 2013 15:01 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:39:43 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.49	83	1122883	29.7986 ug/L		96
40)	111trichlota	6.66	97	1091855	33.0079 ug/L		98
42)	Cyclohexane	6.67	56	1646067	30.5843 ug/L		98
43)	Carbtetraclo	6.84	119	822453	30.2919 ug/L		94
44)	11dicloprope	6.87	110	327030	30.7932 ug/L		99
46)	Benzene	7.11	78	2407097	29.7074 ug/L		82
47)	12dichlorota	7.21	62	1110792	29.5349 ug/L		99
48)	TAME	7.24	73	1521397	31.2774 ug/L		95
49)	trichloroete	7.94	95	707114	31.2381 ug/L		99
50)	methylcyclohexane	8.10	83	1322900	30.8221 ug/L		98
51)	12dicloropra	8.24	63	791521	31.1155 ug/L		94
52)	23Dicl1propene	8.31	75	999749	31.0911 ug/L		94
53)	Dibromometha	8.39	93	411917	29.4445 ug/L		94
54)	methylmethacrylate	8.36	69	594005	30.8522 ug/L		95
55)	14dioxane	8.39	88	324958	1561.8406 ug/L		98
56)	Bromodiclrma	8.59	83	823435	32.6360 ug/L		95
57)	2Nitropropane	8.92	43	4396621	308.2789 ug/L	#	69
58)	2CLEVE	8.98	63	2592911	162.2979 ug/L		94
59)	c13dicloproe	9.17	75	1037227	32.8686 ug/L		94
60)	4Meth2Pentan	9.34	43	6964875	286.7688 ug/L		83
62)	Toluene	9.54	92	1817087	30.5973 ug/L		95
63)	t13Dicloprop	9.91	75	872085	29.0246 ug/L		96
64)	ethylmethacrylate	9.95	69	1893606	62.0128 ug/L		97
65)	112Triclotha	10.14	83	483940	29.7870 ug/L		97
66)	Tetrachlorte	10.24	166	720260	32.2451 ug/L		96
67)	13Diclorpropa	10.37	76	1037143	30.4317 ug/L		95
69)	2Hexanone	10.43	43	5832705	249.7277 ug/L		88
70)	Clorodibrmta	10.63	129	562347	28.1346 ug/L		98
71)	12Dibrometha	10.78	107	581995	29.9876 ug/L		94
72)	Chlorobenzen	11.43	112	1618438	29.0828 ug/L		98
73)	1Clhexane	11.38	91	1058333	32.3493 ug/L		95
74)	1112Tetclota	11.55	131	581132	28.6701 ug/L		99
75)	Ethylbenzene	11.55	91	3069798	29.2278 ug/L		93
76)	m p-Xylene	11.71	106	2290223	60.2838 ug/L		87
77)	o-Xylene	12.26	106	1104313	29.1540 ug/L		89
78)	Styrene	12.29	104	1893885	30.5510 ug/L		97
79)	Bromoform	12.57	173	420519	28.5835 ug/L		96
80)	Isopropylben	12.76	105	2673949	29.8510 ug/L		97
81)	cyclohexanone	12.94	55	747134	592.0460 ug/L		97
84)	Bromobenzene	13.24	156	727806	29.3071 ug/L		96
85)	1122Tetrclta	13.28	83	915861	28.3199 ug/L		92
86)	123Triclproa	13.35	75	1058099	30.2495 ug/L		98
87)	14dichloro2butene	13.35	75	1058099	30.2495 ug/L		95
88)	n-Propylbenz	13.35	91	3394545	27.2832 ug/L		93
89)	2chlorotolue	13.50	91	2116853	28.5850 ug/L		97
90)	4chlorotolue	13.67	91	2219869	28.4028 ug/L		96
91)	135Trimebenz	13.61	105	2451032	29.6239 ug/L		96
92)	tbutylbenzen	14.06	119	1979135	29.7009 ug/L		97
93)	124Trimetben	14.16	105	2422052	30.1760 ug/L		97
94)	sbutylbenzen	14.38	105	2856404	28.6867 ug/L		95
95)	13Diclorbenz	14.59	146	1202047	28.5928 ug/L		94
96)	pIsopropylto	14.60	119	2390961	29.5109 ug/L		96
97)	14dichlorobe	14.73	146	1340088	29.3374 ug/L		96
98)	12dichlorobe	15.27	146	1148600	28.5391 ug/L		97
99)	nButylbenzen	15.20	91	2437715	30.9554 ug/L		97
100)	12dibromo3cl	16.41	157	176867	27.0222 ug/L		91
101)	135Trichlorobenzene	16.66	180	1026556	31.8641 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV2.D Vial: 15
Acq On : 18 Aug 2013 15:01 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:39:43 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.51	180	859516	31.2985 ug/L	100
103) Hexachlorobu	17.69	225	457537	32.3564 ug/L	98
104) Naphthalene	17.82	128	2124283	29.3931 ug/L	95
105) 123Trichlben	18.14	180	819488	31.3834 ug/L	98

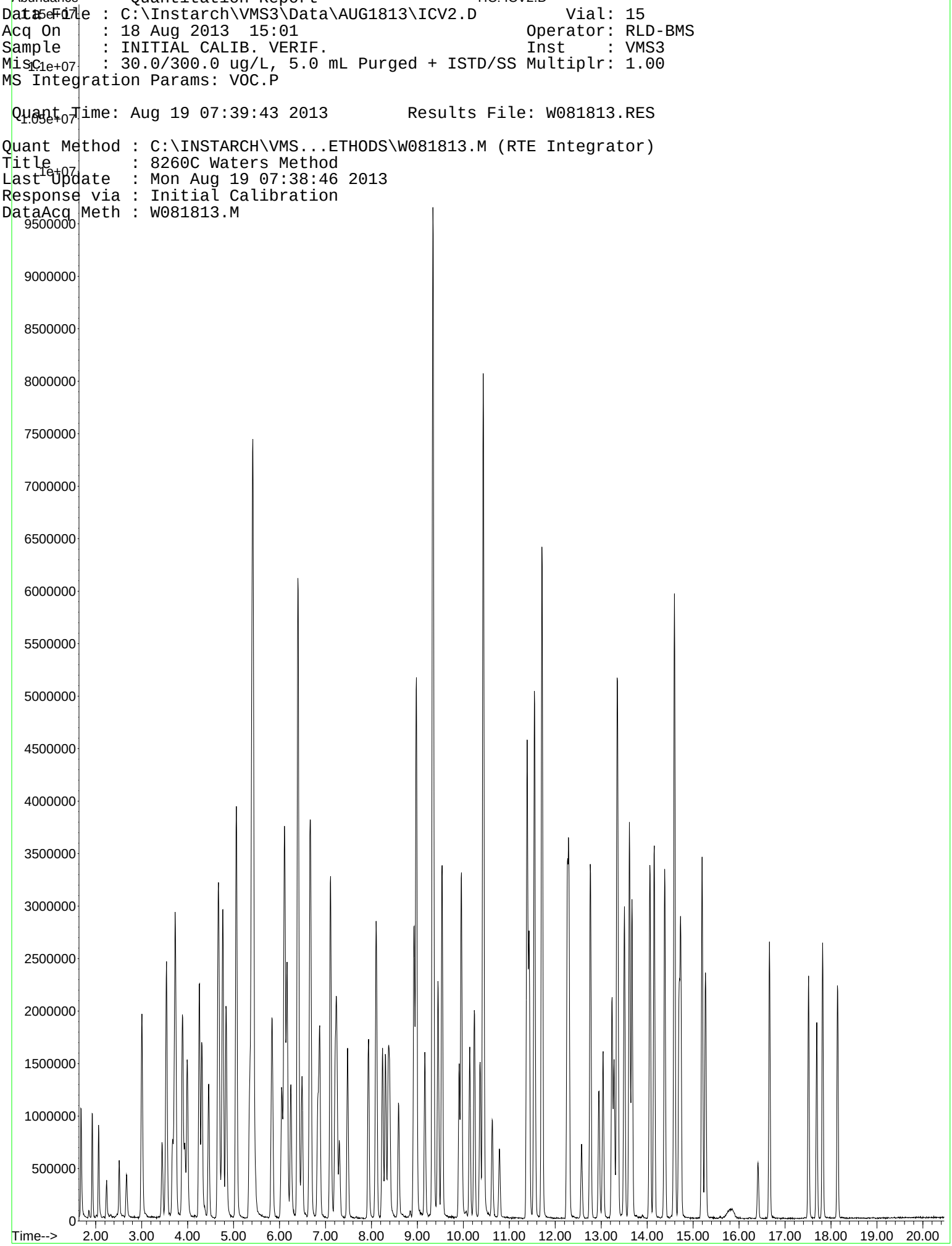
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1813\ICV2.D Vial: 15
Acq On : 18 Aug 2013 15:01 Operator: RLD-BMS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:39:43 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\ICB1.D Vial: 17
Acq On : 18 Aug 2013 15:59 Operator: RLD-BMS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:40:05 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1440345	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1017213	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	555748	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	317213	18.071	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 95 %			
45) SURR12DCAd4	7.11	102	89403	18.470	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 97 %			
61) SURRd8Tolule	9.45	98	1453989	17.805	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 94 %			
83) SURR4BrFBenz	13.04	95	581440	19.993	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 105 %			

Target Compounds				Qvalue
2) Dichlorodi	0.00	85	0	N.D.
3) Chloromethan	1.92	50	5395	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	2.51	94	1777	N.D.
6) Chloroethane	0.00	64	0	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	0.00	59	0	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	0.00	56	0	N.D.
13) 11dichlorthe	0.00	96	0	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	3.89	43	12856	N.D.
16) Iodomethane	3.93	142	2378	N.D.
17) Carbon Dislf	4.01	76	10611	N.D.
18) allylchloride	4.31	41	1745	N.D.
19) methylacetate	0.00	74	0	N.D.
20) Methylchlorid	4.46	84	2895	N.D.
21) tbutylalcohol	4.67	59	1287	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	0.00	73	0	N.D.
25) Hexane	0.00	57	0	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	5.44	43	2832	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	0.00	59	0	N.D.
31) 22dichloropr	0.00	77	0	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	6.44	42	3370	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\ICB1.D Vial: 17
Acq On : 18 Aug 2013 15:59 Operator: RLD-BMS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:40:05 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	8.10	83	1171	N.D.	
51)	12dicloropra	8.19	63	1041	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.46	43	6737	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.45	112	1154	N.D.	
73)	1Clhexane	11.39	91	1819	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	11.54	91	1162	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	12.77	105	1232	N.D.	
81)	cyclohexanone	13.04	55	2792	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	75	0	N.D.	
88)	n-Propylbenz	13.36	91	1127	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	13.67	91	1153	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.70	146	1203	N.D.	
96)	pIsopropylto	14.61	119	1034	N.D.	
97)	14dichlorobe	14.74	146	1046	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	16.66	180	1692	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\ICB1.D Vial: 17
Acq On : 18 Aug 2013 15:59 Operator: RLD-BMS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:40:05 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	1800	N.D.		
103) Hexachlorobu	17.69	225	1562	N.D.		
104) Naphthalene	17.82	128	4261	N.D.		
105) 123Trichlben	18.15	180	2118	N.D.		

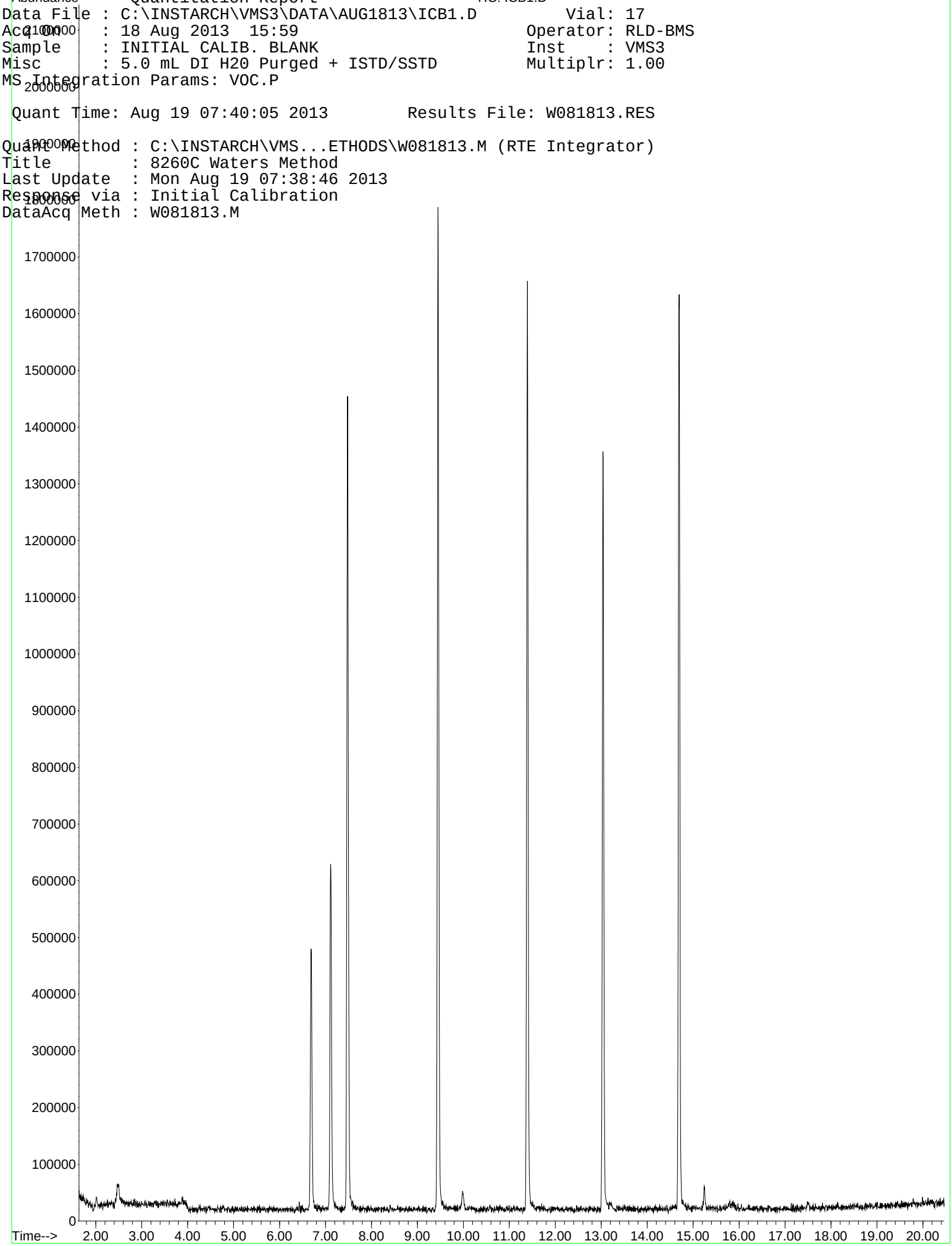
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICB1.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1813\ICB1.D Vial: 17
Acq On : 18 Aug 2013 15:59 Operator: RLD-BMS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 07:40:05 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

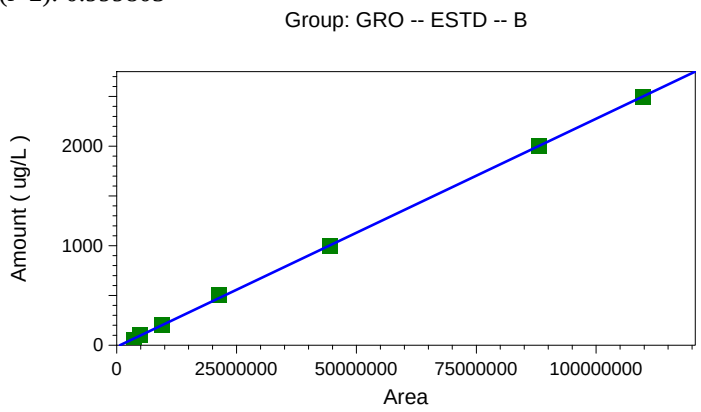


Calibration Report

Method: C:\Instarch\PVOC2\Methods\8015p2w011413.met
Print Time: Jun 04, 2013 10:12:50
User: BMS
Instrument: PVOC2 (Offline)

RJ 06/04/2013

GRO (B)
Average RF: 2.09482e-005 RF StDev: 3.38168e-006 RF %RSD: 16.1430
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.29178e-005x - 14.9907
Goodness of fit (r^2): 0.999805



	Level 8	Level 9	Level 10	Level 11	Level 12
Amount	50	100	200	500	1000
Area	3664866	4857135	9536809	21317324	44450399
RF	1.364306362088e-005	2.05882685986698e-005	2.097137522624 18e-005	2.345510158779 78e-005	2.2496985910 0702e-005
Last Area Residual	-18.9999	3.6759	-3.57192	26.4446	-3.71447
Rep StDev					
Rep %RSD					
Rep 1 Area	3664866	4857135	9536809	21317324	44450399
Rep 1 User	BMS	BMS	BMS	BMS	BMS
Rep 1 Data File	C:\Instarch\PVOC2\Data\011413-8015icw\003.dat	C:\Instarch\PVOC2\Data\011413-8015icw\004.dat	C:\Instarch\PVOC2\Data\011413-8015icw\005.dat	C:\Instarch\PVOC2\Data\011413-8015icw\006.dat	C:\Instarch\PVOC2\Data\011413-8015icw\007.dat
Rep 1 Sample ID	8015 WATER LIN. PT 1	8015 WATER LIN. PT 2	8015 WATER LIN. PT 3	8015 WATER LIN. PT 4	8015 WATER LIN. PT 5
Rep 1 Calib. Time	Jan 14, 2013 14:30:23	Jan 14, 2013 14:31:11	Jan 14, 2013 14:31:37	Jan 14, 2013 14:37:24	Jan 15, 2013 08:56:57

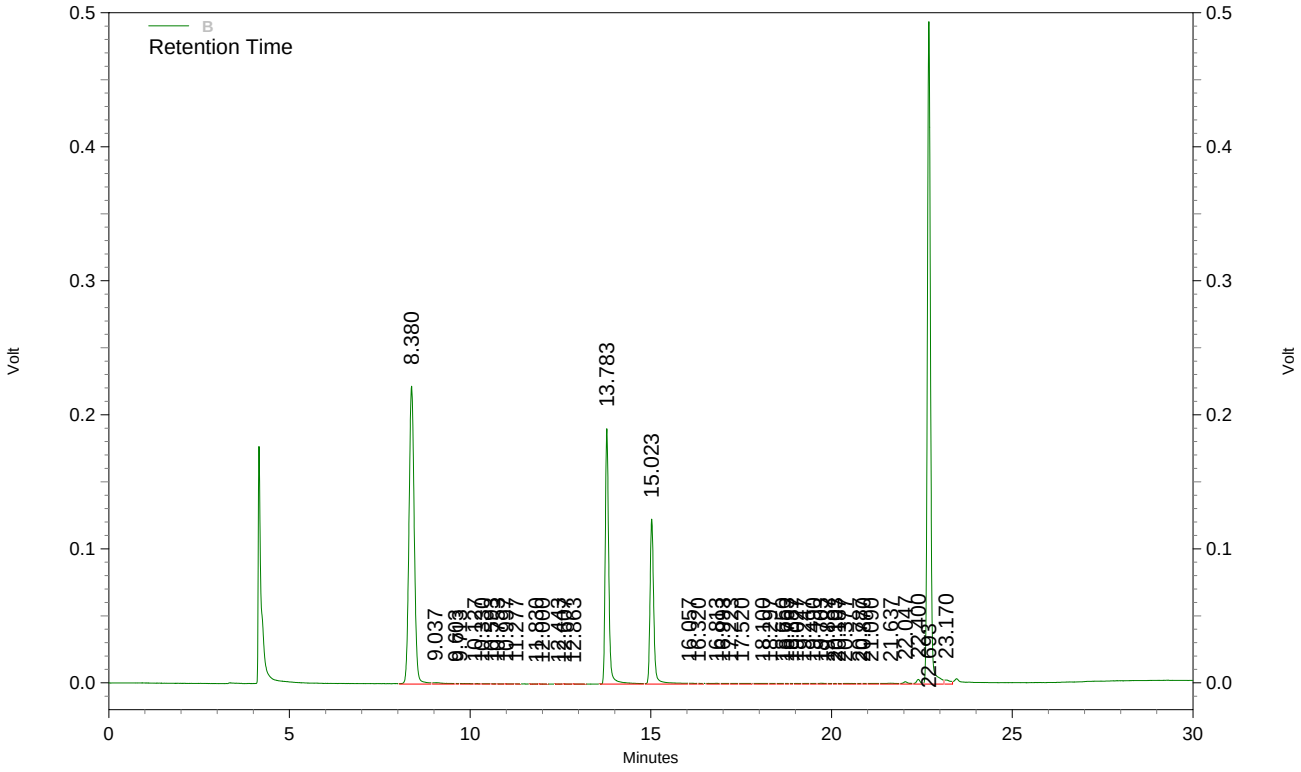
	Level 13	Level 14
Amount	2000	2500

Calibration Report

Method: C:\Instarch\PVOC2\Methods\8015p2w011413.met
Print Time: Jun 04, 2013 10:12:50
User: BMS
Instrument: PVOC2 (Offline)

Area	88140814	109688661
RF	2.269096357 56257e-005	2.27917815497 812e-005
Last Area		
Residual	-5.00252	1.1683
Rep StDev		
Rep %RSD		
Rep 1 Area	88140814	109688661
Rep 1 User	BMS	BMS
Rep 1 Data File	C:\Instarch\PVOC2\Data\011413-8015icw\008.dat	C:\Instarch\PVOC2\Data\011413-8015icw\009.dat
Rep 1 Sample ID	8015 WATER LIN. PT 6	8015 WATER LIN. PT 7
Rep 1 Calib. Time	Jan 15, 2013 08:57:35	Jan 15, 2013 08:57:55

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\002.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 11:16:35
Sample ID : 8015 RTW
File Desc. : RETENTION TIME WINDOW 8015
5.0 mL PURGED + ISTD/SSTD

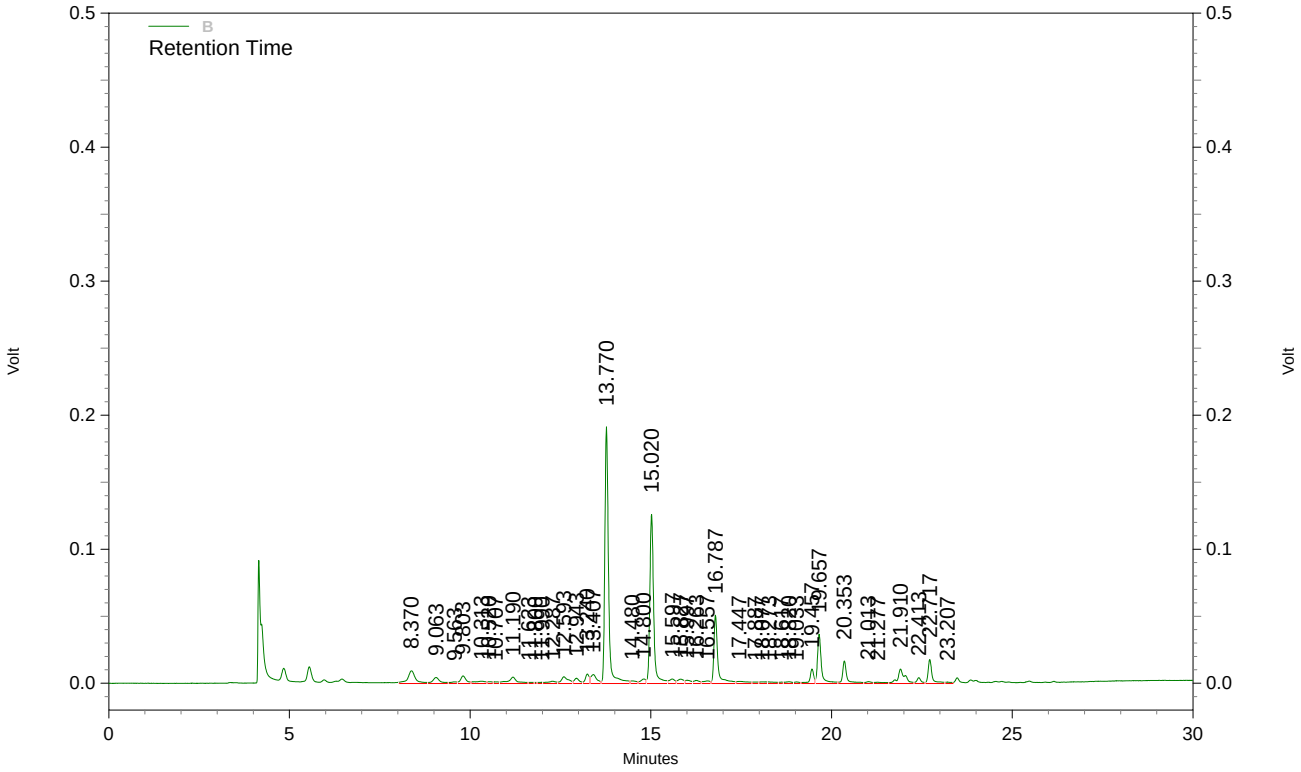


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	892946	115.076	15.023
GRO	6882721	143.944	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\003.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 11:57:14
Sample ID : 8015 WATER LIN. PT 1
File Desc. : GRO WATER LIN. PT 1

GRO= 50 UG/L
5 uL OF 8015 CCV/CALIBRATION STD. 100 mL OF DI WATER---5.0 mL PURGED + ISTD

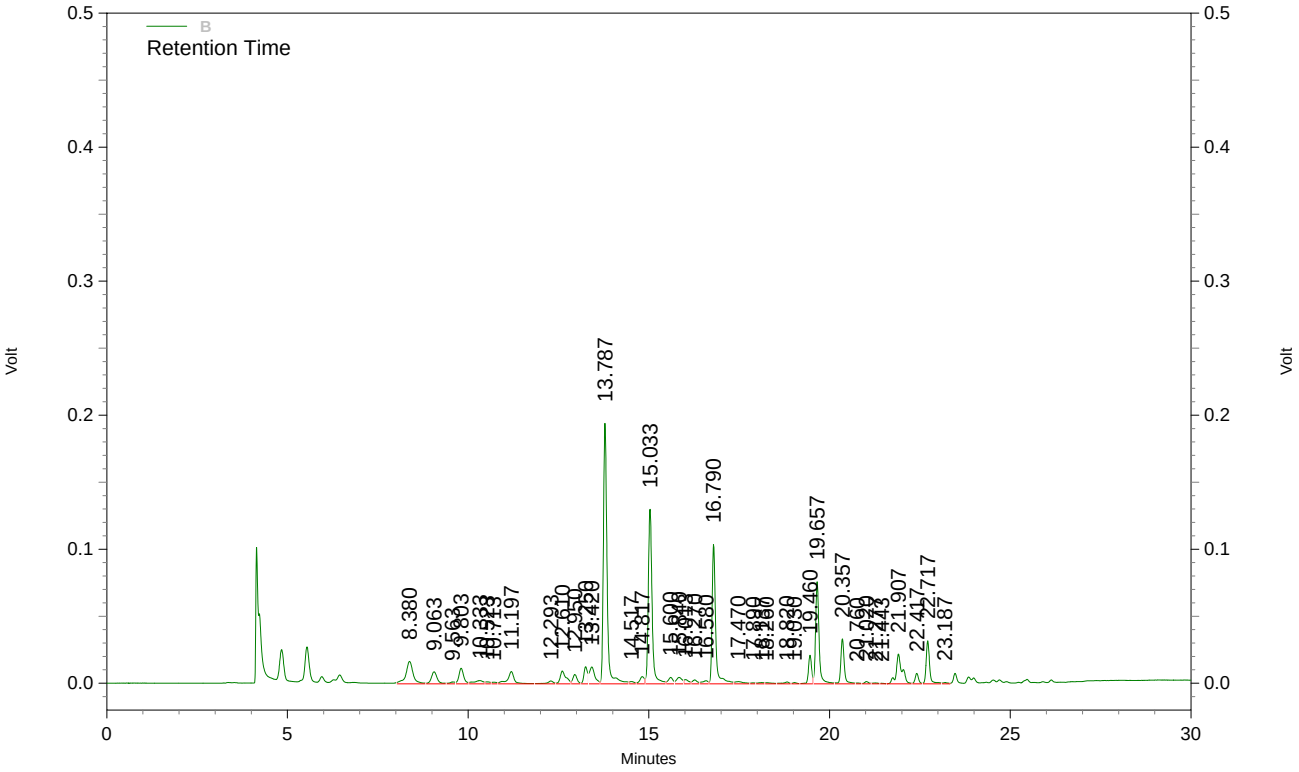


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	923195	0.000 CAL	15.020
GRO	3664866	50.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\004.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 12:39:19
Sample ID : 8015 WATER LIN. PT 2
File Desc. : GRO WATER LIN. PT 2

GRO= 100 UG/L
10 uL OF 8015 CCV/CALIBRATION STD. 100 mL OF DI WATER---5.0 mL PURGED + ISTD

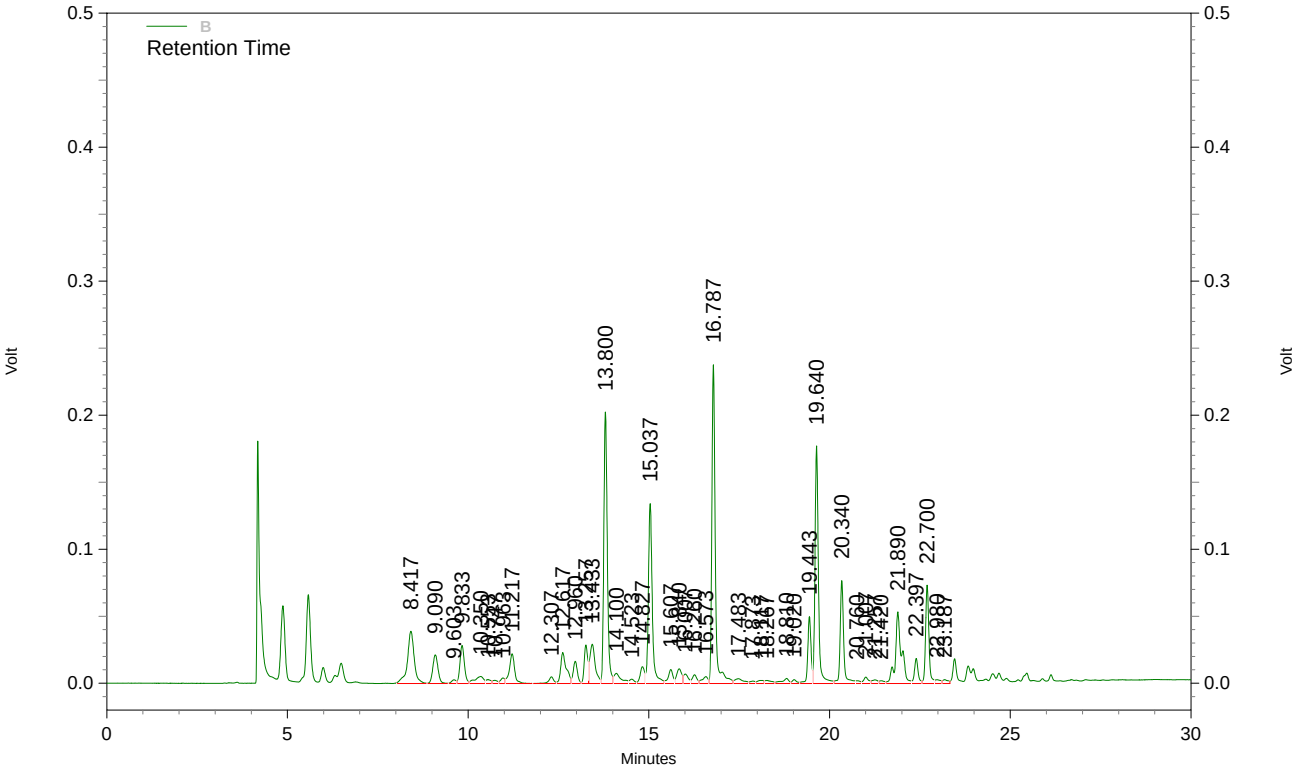


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	941267	0.000 CAL	15.033
GRO	4857135	100.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\005.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 13:22:26
Sample ID : 8015 WATER LIN. PT 3
File Desc. : GRO WATER LIN. PT 3

GRO= 200 UG/L
20 uL OF 8015 CCV/CALIBRATION STD. 100 mL OF DI WATER---5.0 mL PURGED + ISTD

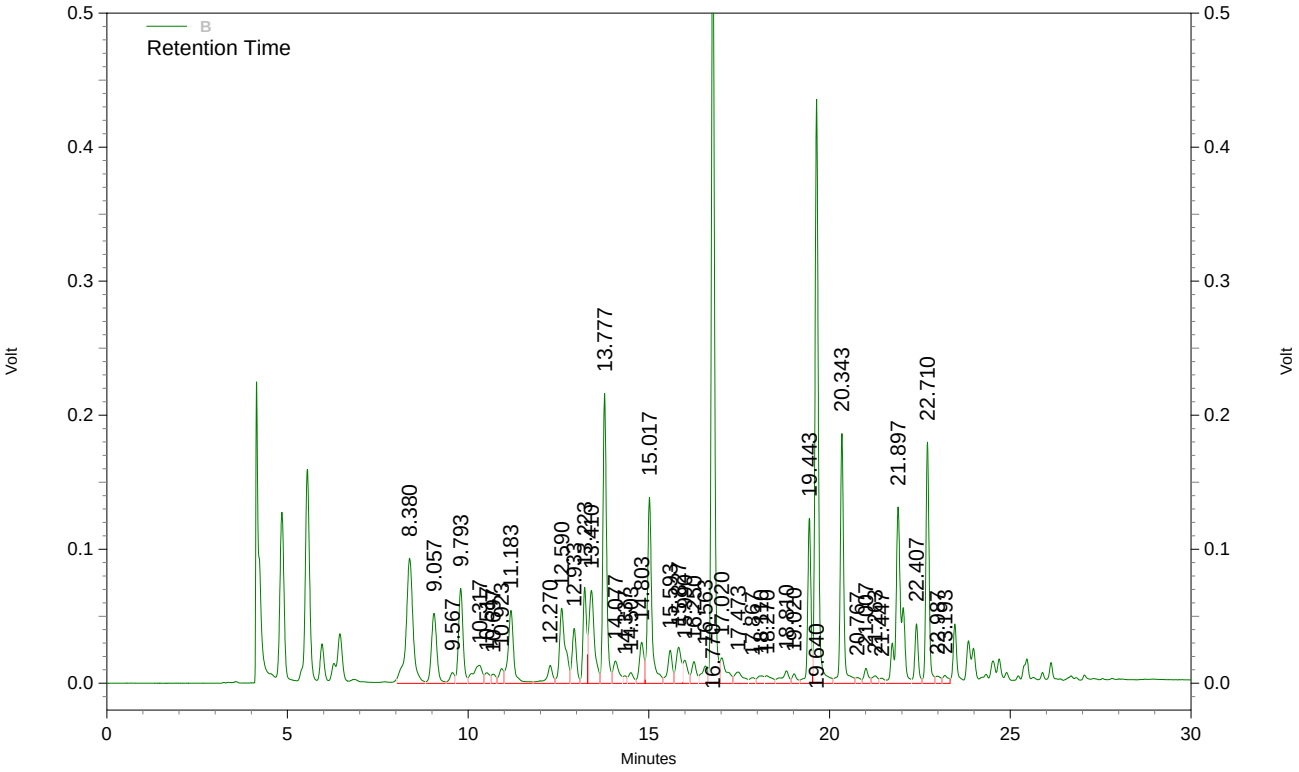


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	995798	0.000 CAL	15.037
GRO	9536809	200.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\006.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 14:03:11
Sample ID : 8015 WATER LIN. PT 4
File Desc. : GRO WATER LIN. PT 4

GRO= 50 UG/L
50 uL OF 8015 CCV/CALIBRATION STD. 100 OF DI WATER---5.0 mL PURGED + ISTD

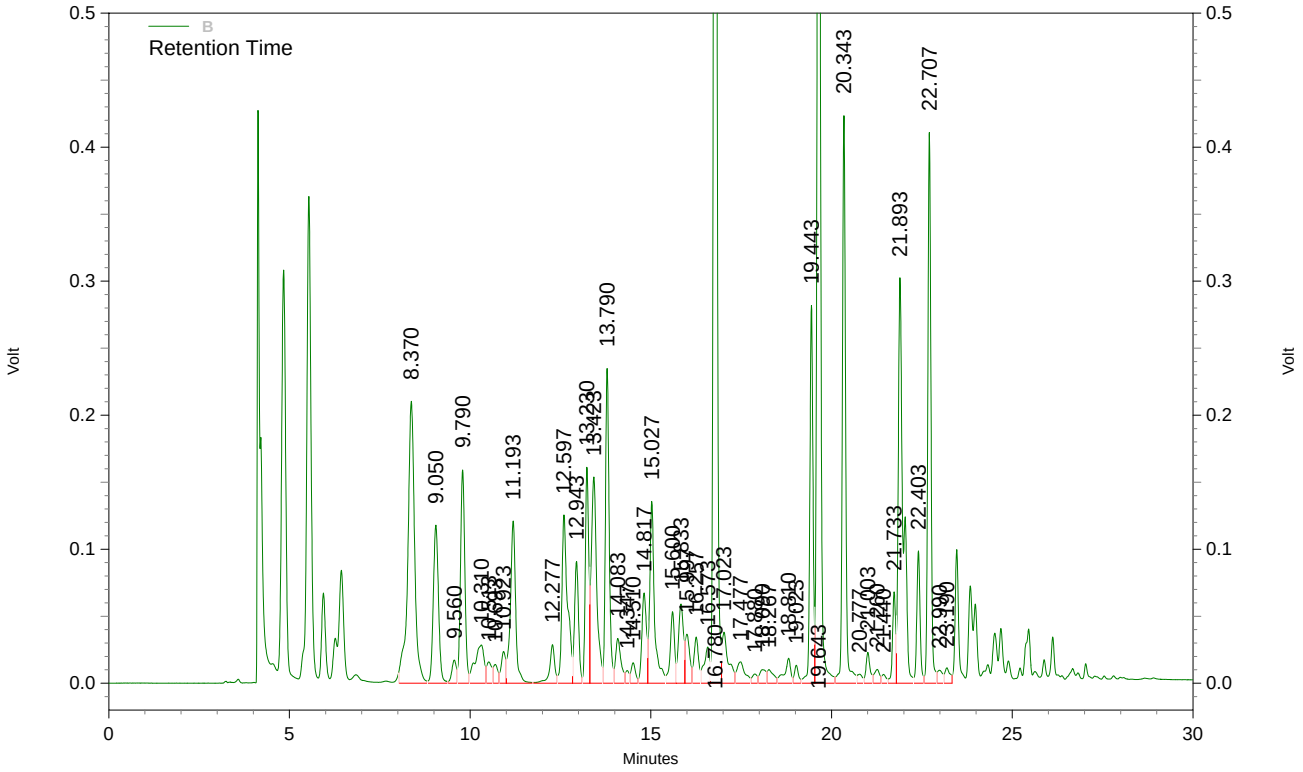


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	1131028	0.000 CAL	15.017
GRO	21317324	500.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\007.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 14:44:04
Sample ID : 8015 WATER LIN. PT 5
File Desc. : GRO WATER LIN. PT 5

GRO= 1000 UG/L
100 uL OF 8015 CCV/CALIBRATION STD. .100 mL OF DI WATER---5.0 mL PURGED + ISTD

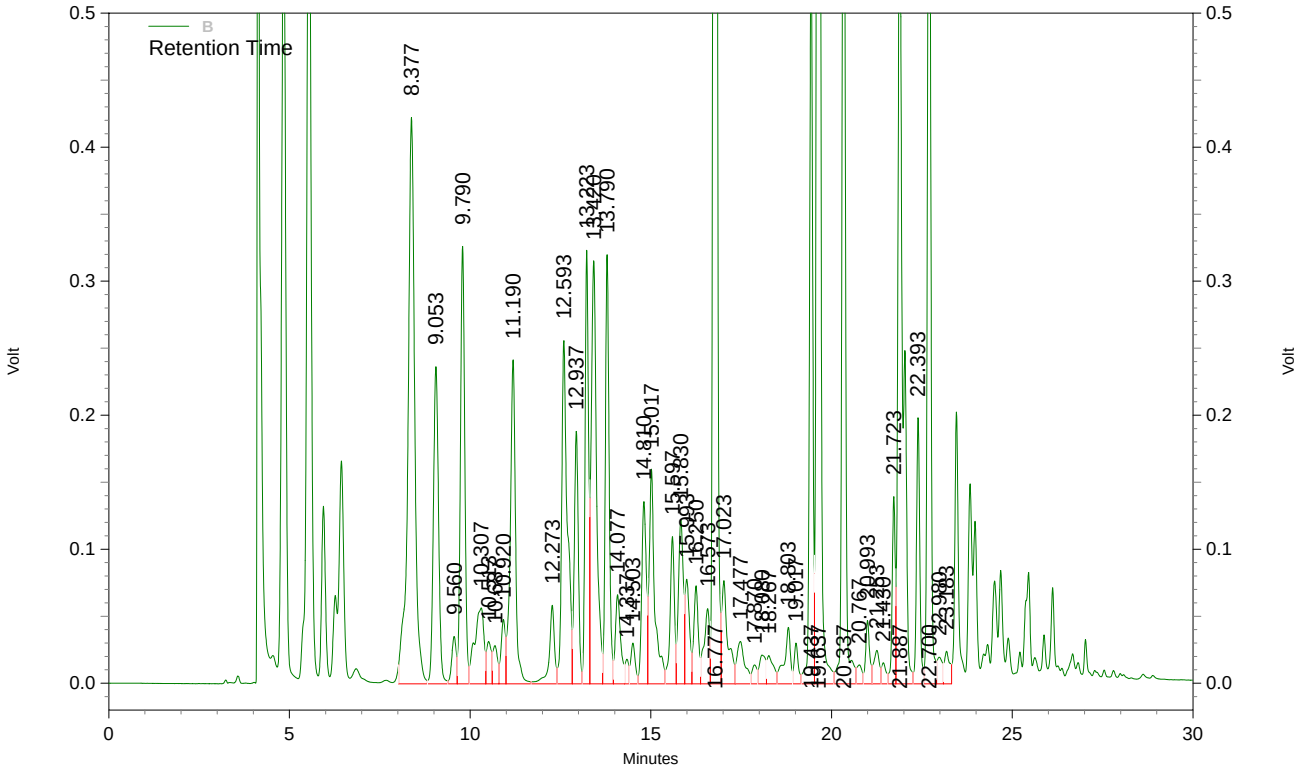


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	1247229	0.000 CAL	15.027
GRO	44450404	1000.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\008.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 15:25:29
Sample ID : 8015 WATER LIN. PT 6
File Desc. : GRO WATER LIN. PT 6

GRO= 2000 UG/L
200 uL OF 8015 CCV/CALIBRATION STD. 100 mL OF DI WATER---5.0 mL PURGED + ISTD

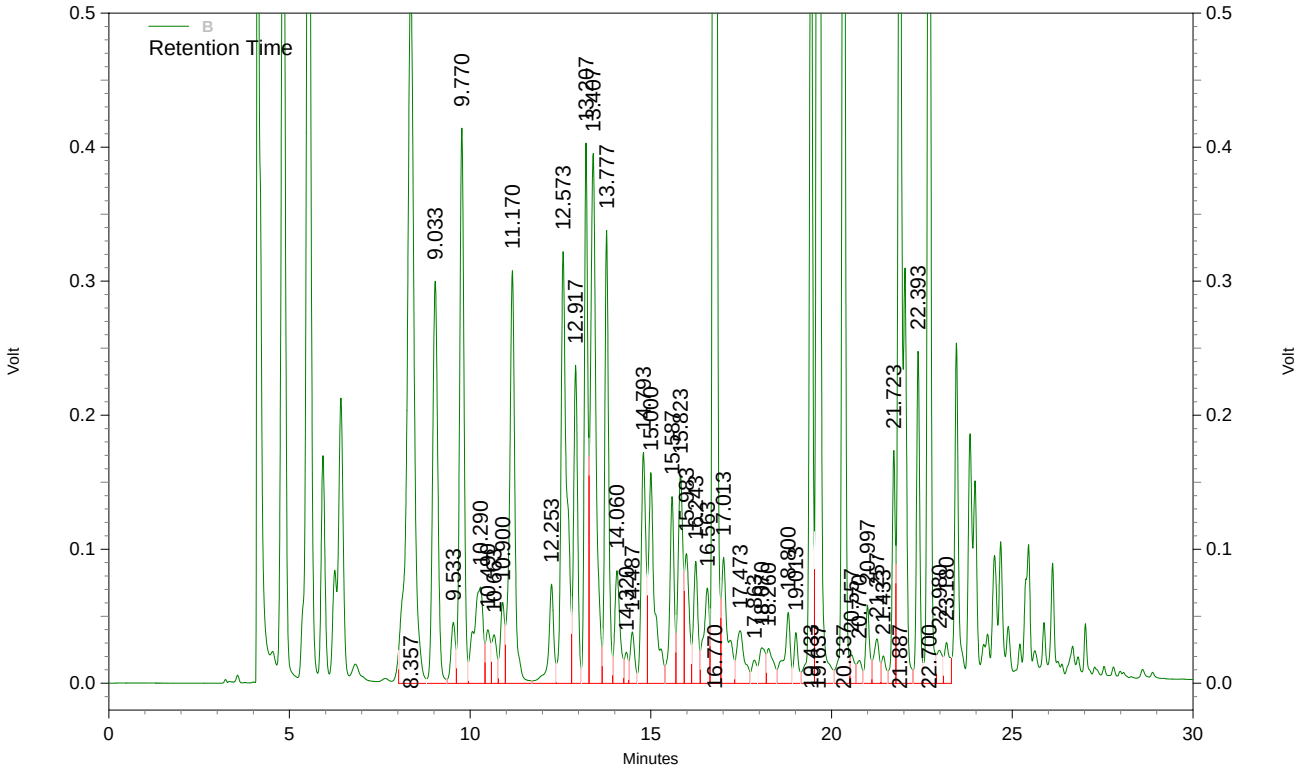


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	1699236	0.000 CAL	15.017
GRO	88140824	2000.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\009.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 16:06:07
Sample ID : 8015 WATER LIN. PT 7
File Desc. : GRO WATER LIN. PT 7

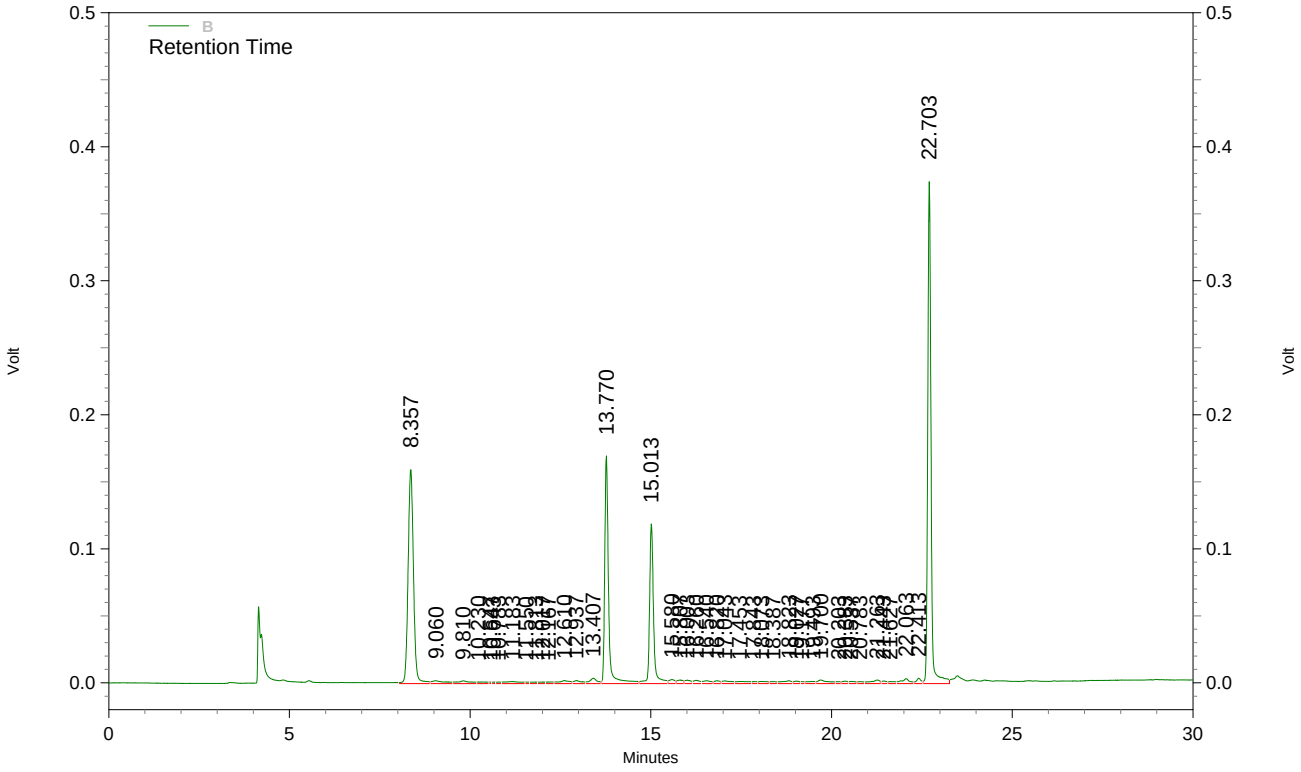
GRO= 2500 UG/L
250 uL OF 8015 CCV/CALIBRATION STD. 100 mL OF DI WATER---5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	1827650	0.000 CAL	15.000
GRO	109688680	2500.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\011.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 17:28:54
Sample ID : 8015 RTW
File Desc. : RETENTION TIME WINDOW 8015
5.0 mL PURGED + ISTD/SSTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	899602	115.970	15.013
GRO	6319056	124.030	

QC Check Standard Report

Sequence : C:\Instarch\PVOC2\Sequences\011413-8015icw.seq
User : BMS
Printed : Jun 04, 2013 10:14:04

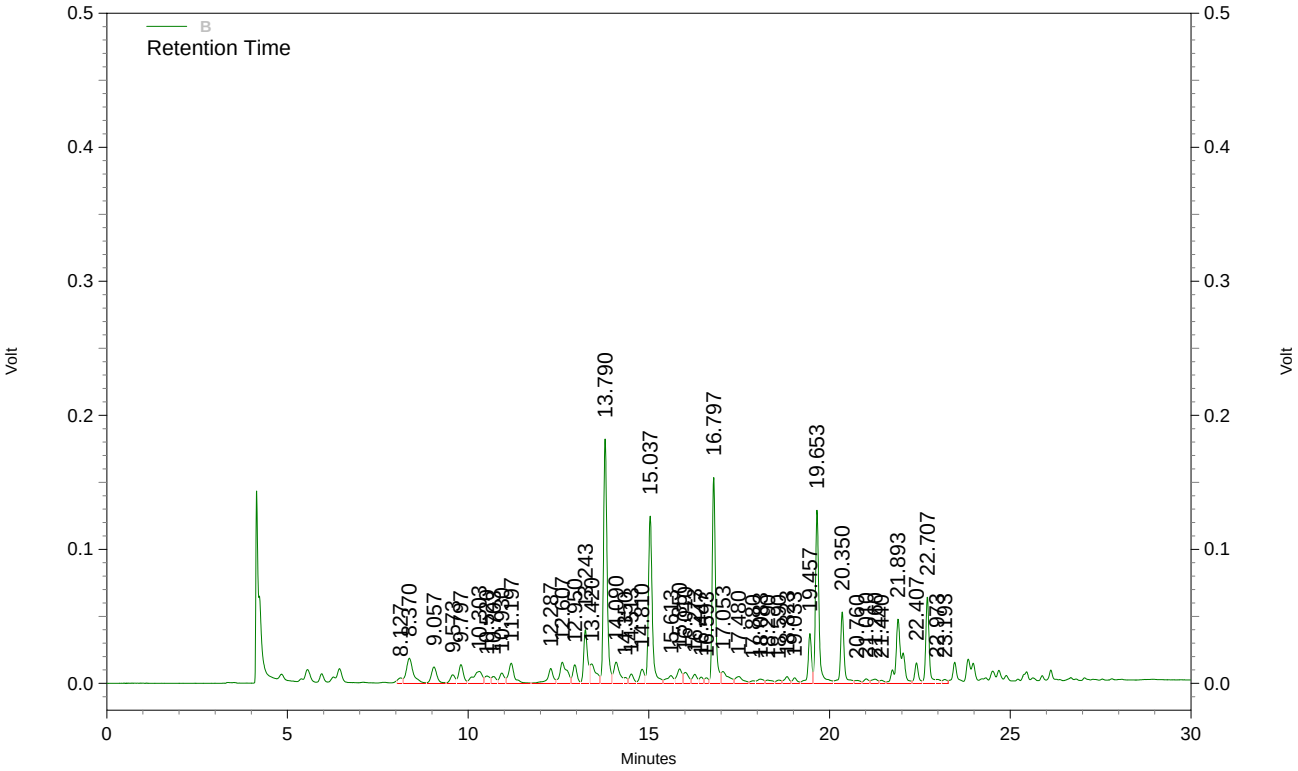
File	Sample ID	Acquired
C:\Instarch\PVOC2\Data\011413-8015icw\012.dat	8015 WATER ICV	Jun 04, 2013 10:14:04

B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
S:aaaTFT	100.000	111.627	11.627	30.000	**Passed**
GRO	200.000	173.936	13.032	15.000	**Passed**

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\012.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 18:10:54
Sample ID : 8015 WATER ICV
File Desc. : GRO WATER ICV

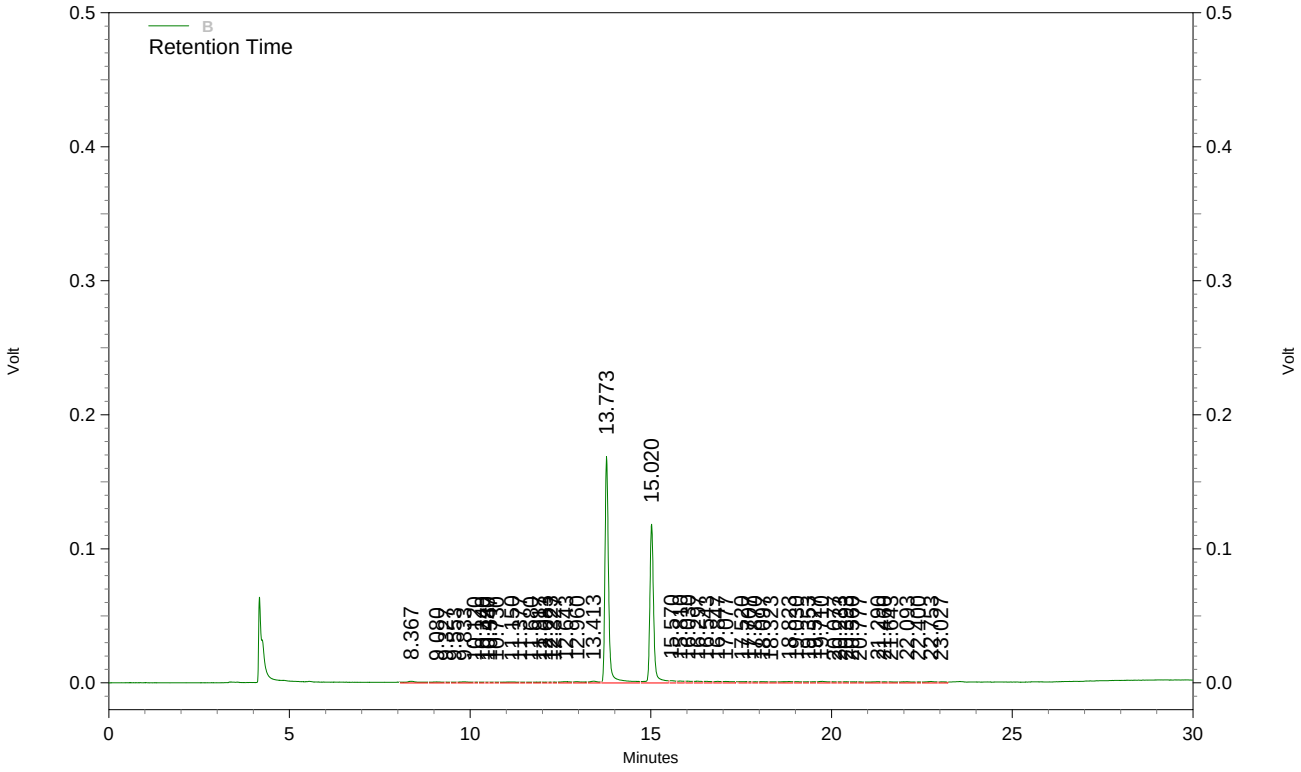
GRO=200ug/l
20.0 uL OF 8015 SECONDARY SOURCE STD. INTO 100 mL DI WATER---5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	925664	111.627	15.037
GRO	8243685	173.936	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011413-8015icw\014.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 14, 2013 19:33:05
Sample ID : 8015 WATER ICB
File Desc. : GRO ICB WATER
5.0 mL PURGED + ISTD



B Results

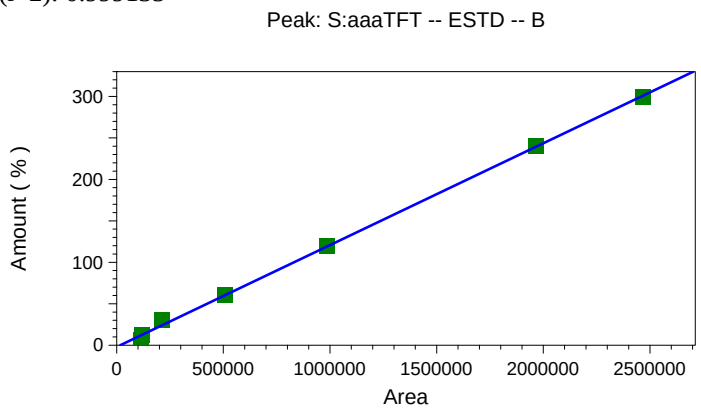
Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	866400	104.347	15.020
GRO	1844484	27.281	

Calibration Report

Method: C:\Instarch\PVOC2\Methods\8015p2w011413.met
Print Time: Jun 04, 2013 10:12:18
User: BMS
Instrument: PVOC2 (Offline)

RJ 06/04/2013

S:aaaTFT (B)
Average RF: 0.000111562 RF StDev: 2.80420e-005 RF %RSD: 25.1359
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000122828x - 2.07099
Goodness of fit (r^2): 0.999135



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	12	30	60	120
Area	112511	116559	211845	509117	987290
RF	5.332811902 83617e-005	0.00010295215 2986899	0.000141612971 748212	0.000117851102 988115	0.0001215448 34850956
Last Area Residual	-5.74855	-0.245755	6.05043	-0.462983	0.803844
Rep StDev					
Rep %RSD					
Rep 1 Area	112511	116559	211845	509117	987290
Rep 1 User	BMS	BMS	BMS	BMS	BMS
Rep 1 Data File	C:\Instarch\PVOC2\Data\011013pvocicw\003.dat	C:\Instarch\PVOC2\Data\011013pvocicw\004.dat	C:\Instarch\PVOC2\Data\011013pvocicw\005.dat	C:\Instarch\PVOC2\Data\011013pvocicw\006.dat	C:\Instarch\PVOC2\Data\011013pvocicw\007.dat
Rep 1 Sample ID	PVOC WATER LIN. PT 1	PVOC WATER LIN. PT 2	PVOC WATER LIN. PT 3	PVOC WATER LIN. PT 4	PVOC WATER LIN. PT 5
Rep 1 Calib. Time	Jan 15, 2013 09:03:21	Jan 15, 2013 09:03:48	Jan 15, 2013 09:04:14	Jan 15, 2013 09:04:39	Jan 15, 2013 09:05:04

	Level 6	Level 7
Amount	240	300

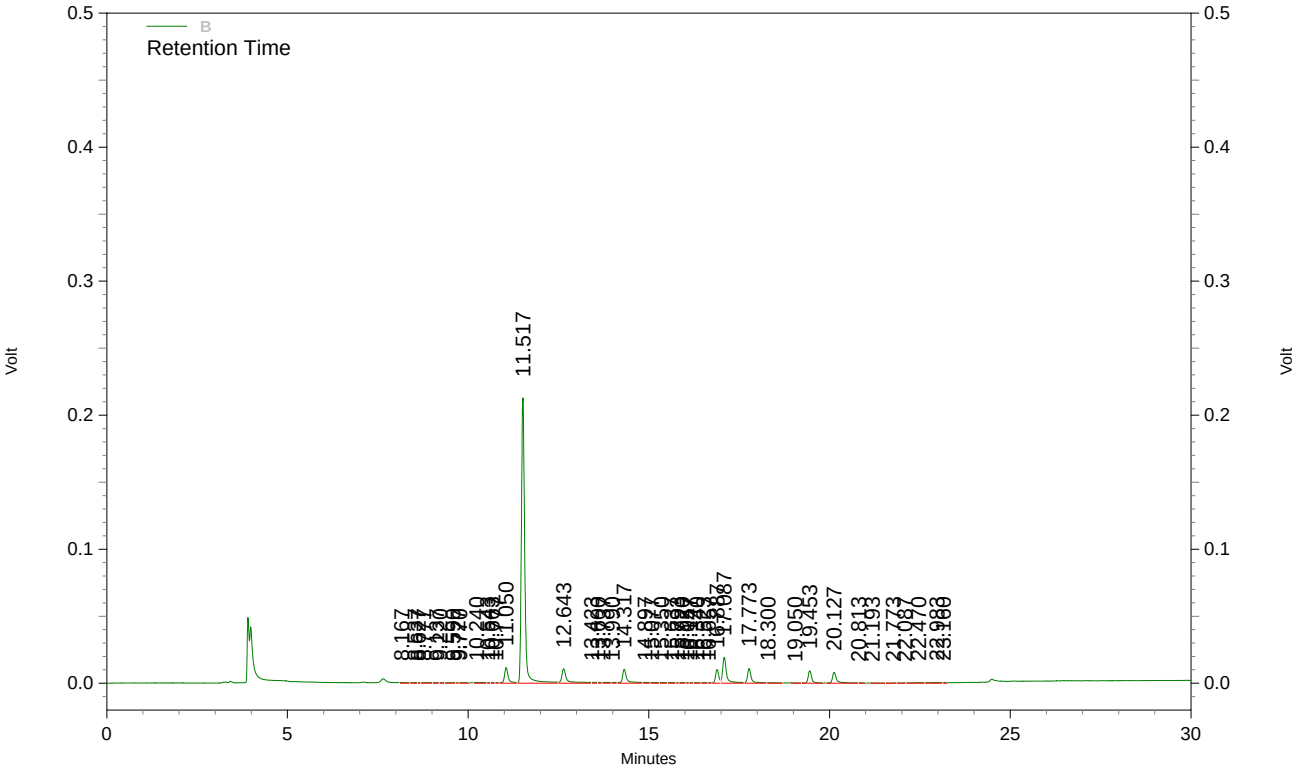
Calibration Report

Method: C:\Instarch\PVOC2\Methods\8015p2w011413.met
Print Time: Jun 04, 2013 10:12:18
User: BMS
Instrument: PVOC2 (Offline)

Area	1967775	2465560
RF	0.000121965	0.00012167621
	163700118	1489479
Last Area		
Residual	0.372546	-0.769535
Rep StDev		
Rep %RSD		
Rep 1 Area	1967775	2465560
Rep 1 User	BMS	BMS
Rep 1 Data File	C:\Instarch\PVOC2\Data\011013pvocicw\009.dat	C:\Instarch\PVOC2\Data\011013pvocicw\011.dat
Rep 1 Sample ID	PVOC WATER LIN. PT 6	PVOC WATER LIN. PT 7
Rep 1 Calib. Time	Jan 15, 2013 09:05:20	Jan 15, 2013 09:05:40

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011013pvocicw\003.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 10, 2013 11:09:44
Sample ID : PVOC WATER LIN. PT 1
File Desc. : PVOC WATER LIN. PT 1

PVOC=0.5 UG/L
0.5 uL OF 8020 CCV/CALIBRATION STD. + 0.5 uL OF 8020 S STD. 50 mL OF DI WATER---5.0 mL PURGED + ISTD

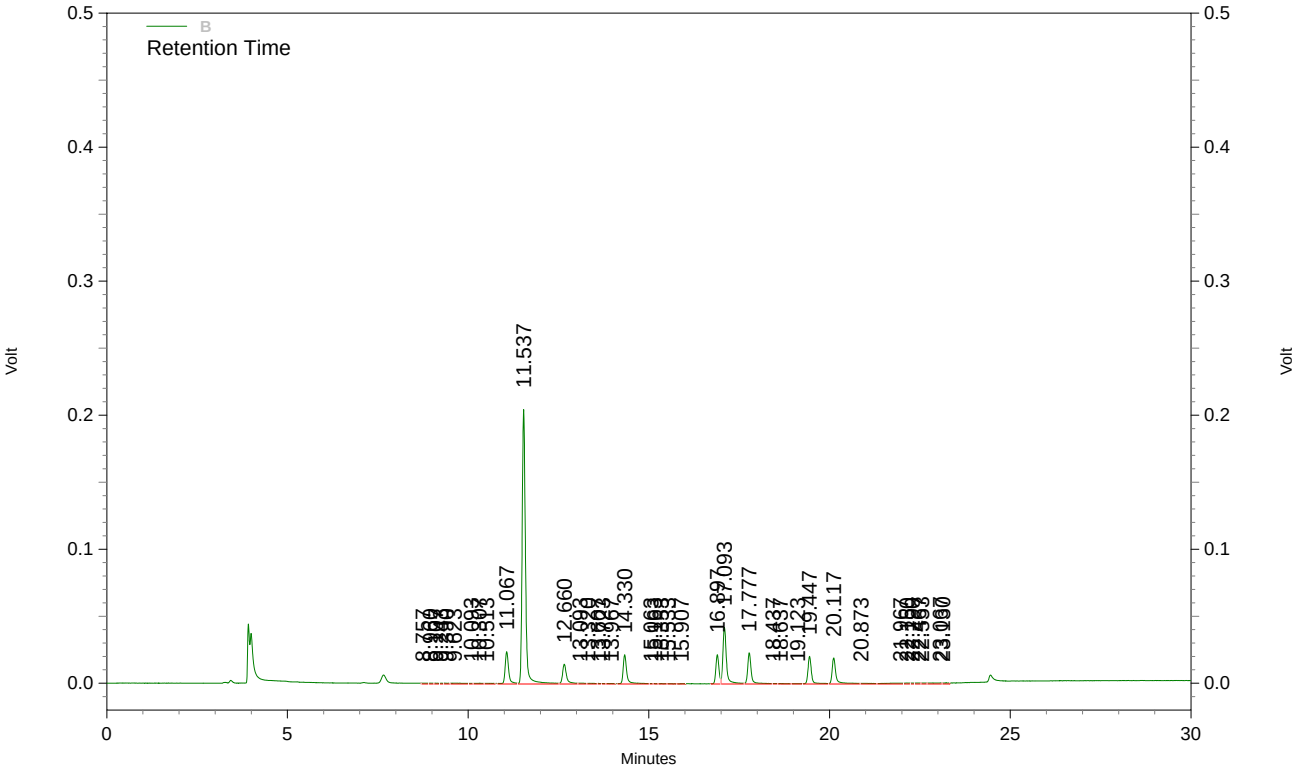


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	112511	6.000 CAL	12.643
GRO	2181795	0.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011013pvocicw\004.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 10, 2013 11:46:30
Sample ID : PVOC WATER LIN. PT 2
File Desc. : PVOC WATER LIN. PT 2

PVOC=1 UG/L
1.0 uL OF 8020 CCV/CALIBRATION STD. + 1.0 uL OF 8020 S STD. 50 mL OF DI WATER---5.0 mL PURGED + ISTD

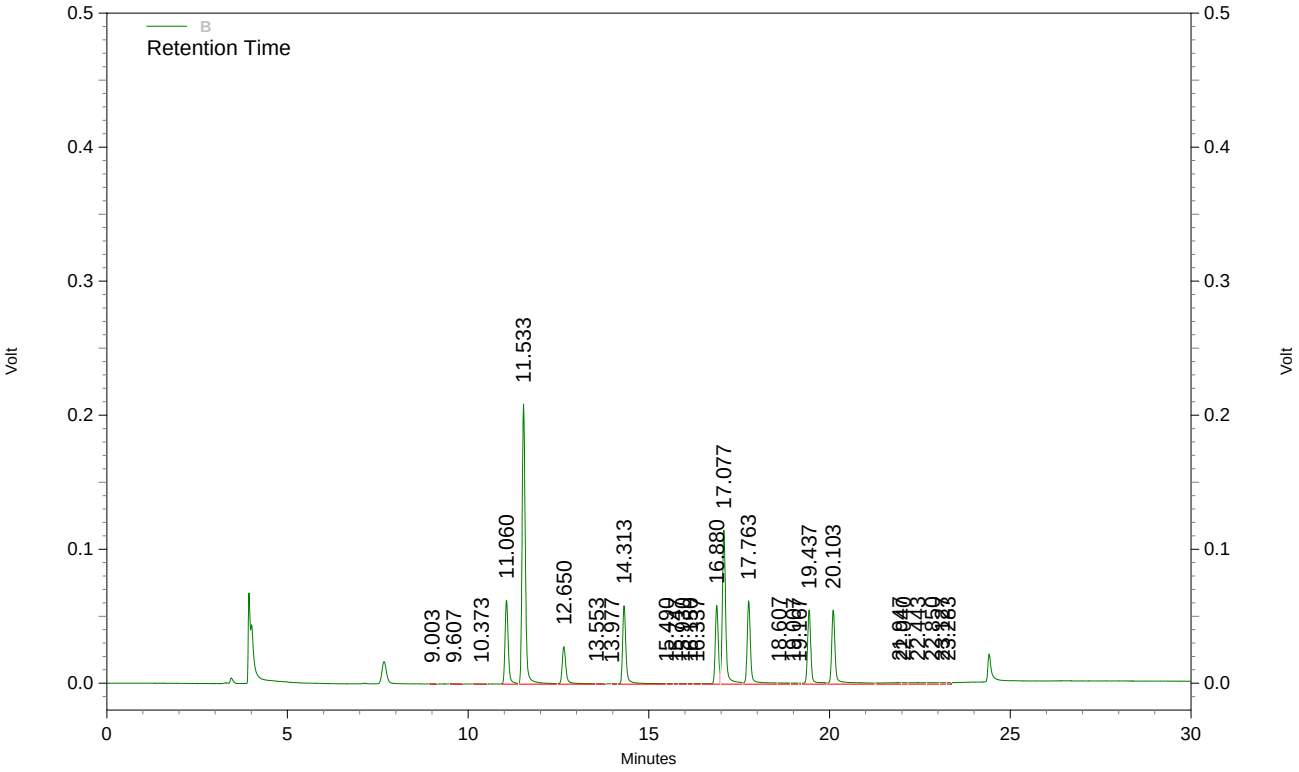


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	116559	12.000 CAL	12.660
GRO	2684807	0.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011013pvocicw\005.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 10, 2013 12:23:19
Sample ID : PVOC WATER LIN. PT 3
File Desc. : PVOC WATER LIN. PT 3

PVOC=5 UG/L
2.5 uL OF 8020 CCV/CALIBRATION STD. + 2.5 uL OF 8020 S STD. 50 mL OF DI WATER---5.0 mL PURGED + ISTD

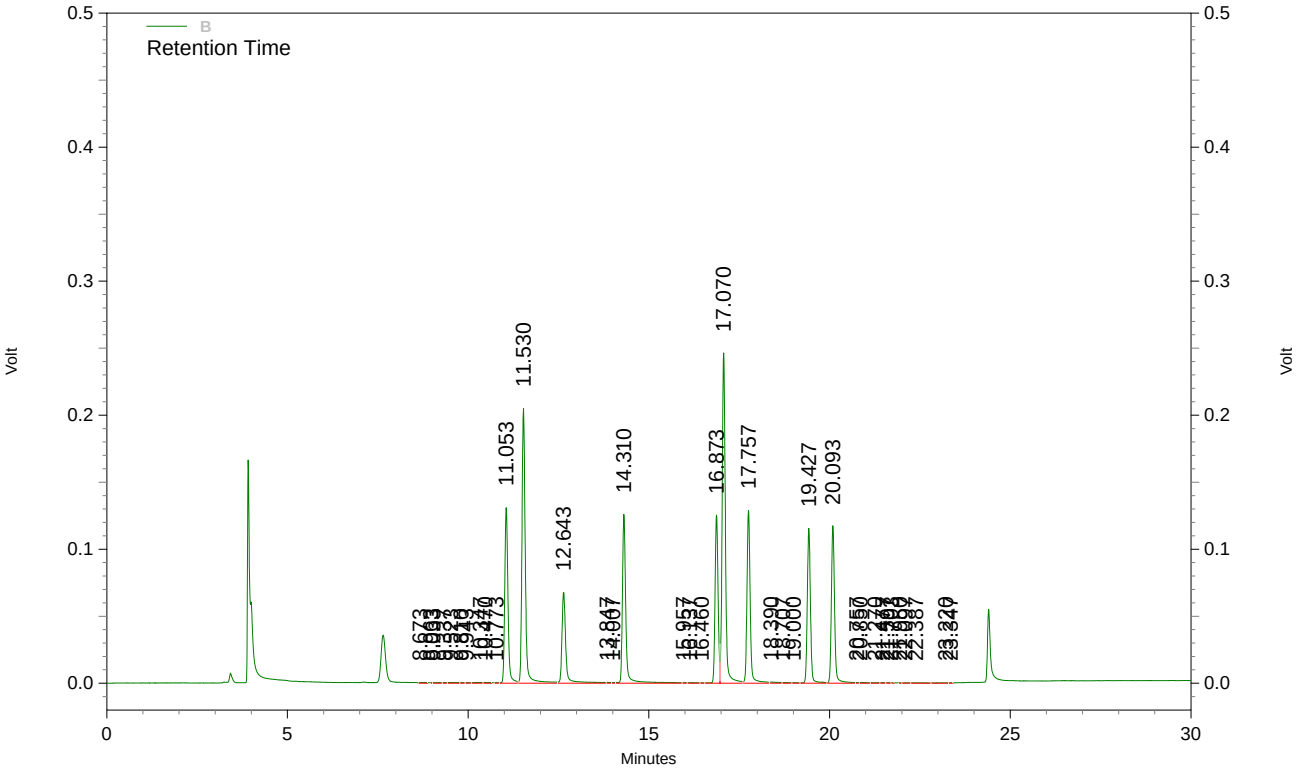


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	211845	30.000 CAL	12.650
GRO	4596731	0.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011013pvocicw\006.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 10, 2013 13:00:05
Sample ID : PVOC WATER LIN. PT 4
File Desc. : PVOC WATER LIN. PT 4

PVOC=10
5.0 uL OF 8020 CCV/CALIBRATION STD. + 5.0 uL OF 8020 S STD.mL OF DI WATER---5.0 mL PURGED + ISTD

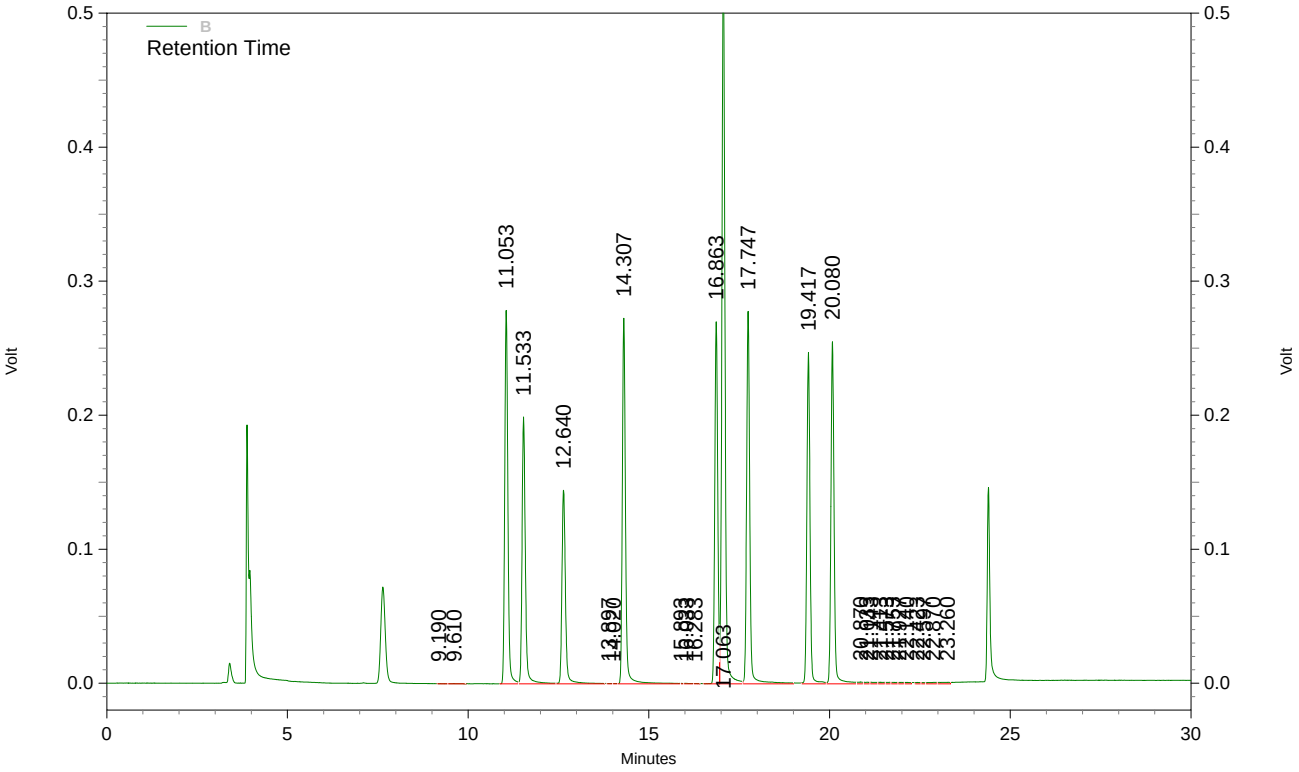


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	509117	60.000 CAL	12.643
GRO	7620085	0.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011013pvocicw\007.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 10, 2013 13:37:00
Sample ID : PVOC WATER LIN. PT 5
File Desc. : PVOC WATER LIN. PT 5

PVOC=20
10.0 uL OF 8020 CCV/CALIBRATION STD. + 10.0 uL OF 8020 S STD. 50 mL OF DI WATER---5.0 mL PURGED + ISTD

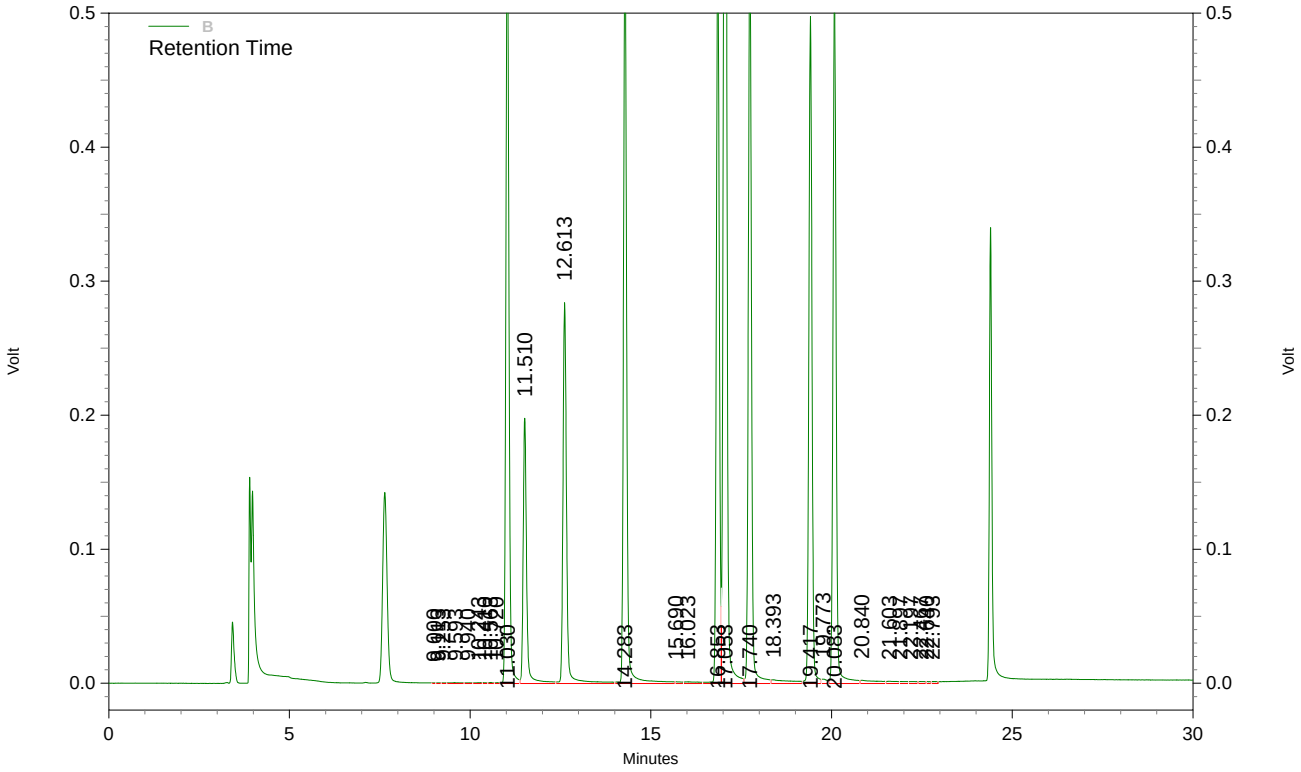


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	987290	120.000 CAL	12.640
GRO	14346714	0.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011013pvocicw\009.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 10, 2013 14:49:35
Sample ID : PVOC WATER LIN. PT 6
File Desc. : PVOC WATER LIN. PT 6

PVOC=40
20.0 uL OF 8020 CCV/CALIBRATION STD. + 20.0 uL OF 8020 S STD. 50 mL OF DI WATER---5.0 mL PURGED + ISTD

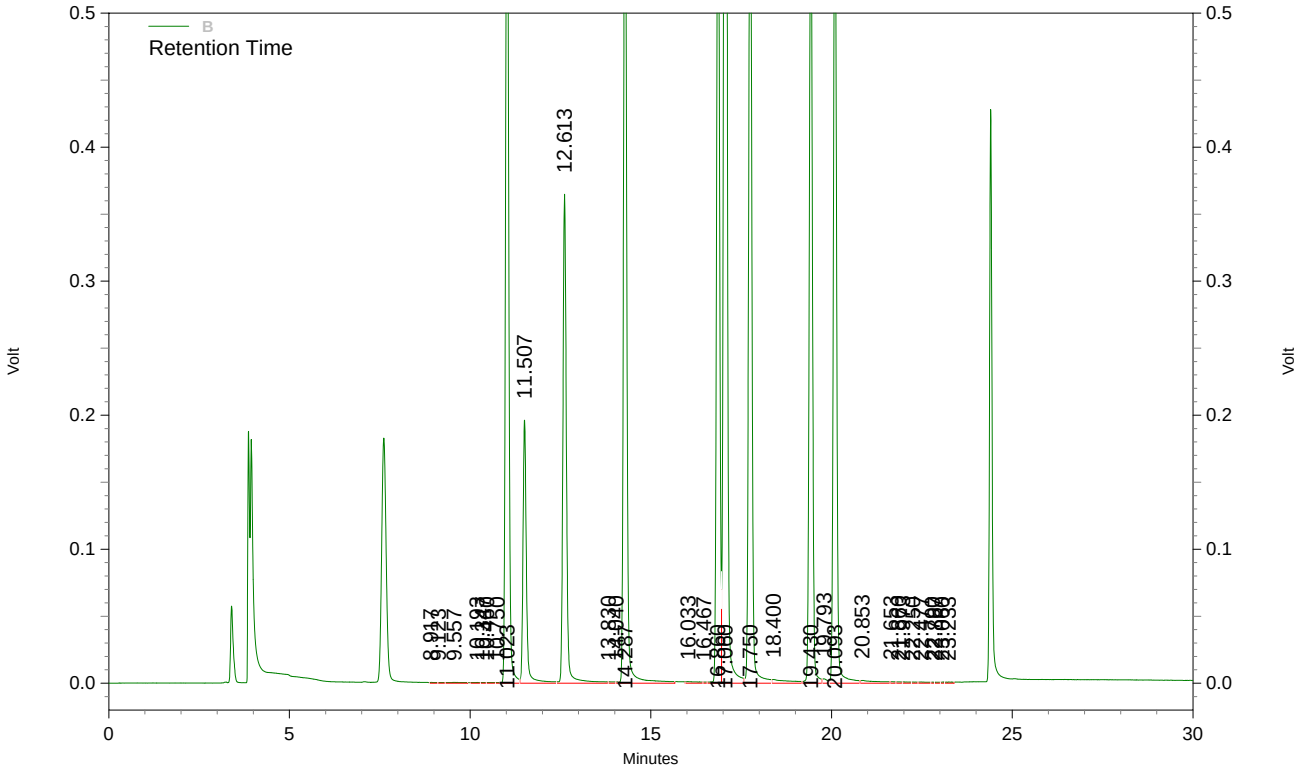


B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	1967775	240.000 CAL	12.613
GRO	27631490	0.000 CAL	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\011013pvocicw\011.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Jan 10, 2013 16:01:36
Sample ID : PVOC WATER LIN. PT 7
File Desc. : PVOC SOIL LIN. PT 7

PVOC=50
25.0 uL OF 8020 CCV/CALIBRATION STD. + 25.0 uL OF 8020 S STD. 50 mL OF DI WATER---5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	2465560	300.000 CAL	12.613
GRO	33731048	0.000 CAL	

VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

BFB

Data File : C:\Instarch\VMS3\Data\AUG1913\BFB1.D Vial: 1
Acq On : 19 Aug 2013 11:11 Operator: RLD-BMS
Sample : 96833,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.354 to 4.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	24019	PASS
75	95	30	60	51.6	51565	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.6	6606	PASS
173	174	0.00	2	0.9	748	PASS
174	95	50	100	83.6	83599	PASS
175	174	5	9	8.3	6958	PASS
176	174	95	101	95.8	80063	PASS
177	176	5	9	6.8	5484	PASS

W081813.M Tue Aug 20 14:15:29 2013

Evaluate Continuing Calibration Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Aug 19 12:16:29 2013

Quant Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W081813.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	105	0.00
2	PT	Dichlorodi	0.325	0.399	-22.8#	111	0.00
3	PT	Chloromethan	0.372	0.400	-7.5	101	0.00
4	PT	VinylChlorid	0.325	0.370	-13.8	106	0.00
5	PT	Bromomethane	0.100	0.133	-33.0#	134	0.00
6	PT	Chloroethane	0.175	0.195	-11.4	119	0.00
7	T	Dichloroflmethane	0.509	0.562	-10.4	106	0.00
8	PT	Trichlorofma	0.378	0.451	-19.3	106	0.00
9	T	Ethylether	0.245	0.233	4.9	101	0.00
10	T	dichlorotfluoroethan	0.267	0.328	-22.8#	109	0.00
11	T	propyleneoxide	0.051	0.056	-9.8	108	0.00
12	T	Acrolein	0.062	0.062	0.0	101	0.00
13	PT	11dichlorthe	0.195	0.222	-13.8	108	0.00
14	PT	Trichlorotfluoroeth	0.184	0.219	-19.0	113	0.00
15	PT	Acetone	0.133	0.109	18.0	88	0.00
16	T	Iodomethane	0.136	0.120	11.8	90	0.00
17	PT	Carbon Dislf	0.410	0.504	-22.9#	110	0.00
18	T	allylchloride	0.363	0.434	-19.6	111	0.00
19	PT	methylacetate	0.227	0.237	-4.4	104	-0.01
20	PT	Methylchlorid	0.261	0.264	-1.1	109	0.00
21	T	tbutylalcohol	0.036	0.042	-16.7	107	0.00
22	T	Acrylonitrile	0.157	0.169	-7.6	104	0.00
23	PT	t12dichlorte	0.257	0.285	-10.9	108	0.00
24	PT	MtBE	0.701	0.715	-2.0	107	-0.01
25	T	Hexane	0.495	0.623	-25.9#	110	0.00
26	PT	11dichlorota	0.561	0.618	-10.2	106	0.00
27	T	Vinylacetate	0.452	0.513	-13.5	105	0.00
28	T	chloroprene	0.596	0.695	-16.6	111	0.00
29	T	Diisopether	1.063	1.166	-9.7	107	0.00
30	T	ETBE	0.874	0.921	-5.4	106	0.00
31	T	22dichloropr	0.345	0.379	-9.9	108	0.00
32	PT	c12dichlorte	0.297	0.311	-4.7	106	-0.01
33	PT	2Butanone	0.043	0.045#	-4.7	100	0.00
34	T	propionitrile	0.063	0.071	-12.7	108	0.00
35	T	Ethylacetate	0.011	0.012#	-9.1	99	0.00
36	T	methacrylonitrile	0.149	0.149	0.0	105	0.00
37	T	Bromochlorma	0.118	0.112	5.1	97	0.00
38	T	Tetrahydofur	0.132	0.146	-10.6	102	0.00
39	PT	Chloroform	0.466	0.495	-6.2	107	0.00
40	PT	111trichlota	0.409	0.438	-7.1	105	0.00
41	S	SURRDibrflma	0.244	0.244	0.0	104	0.00
42	PT	Cyclohexane	0.604	0.704	-16.6	105	0.00
43	PT	Carbtetraclo	0.289	0.314	-8.7	104	0.00
44	T	11dicloprope	0.131	0.138	-5.3	107	0.00
45	S	SURR12DCAd4	0.067	0.067	0.0	103	0.00
46	PT	Benzene	1.003	1.092	-8.9	103	0.00
47	PT	12dichlorota	0.466	0.471	-1.1	100	0.00
48	T	TAME	0.602	0.598	0.7	102	0.00

49	PT	trichloroete	0.280	0.309	-10.4	109	0.00
50	PT	methylcyclohexane	0.461	0.596	-29.3#	110	0.00
51	PT	12dicloropra	0.315	0.339	-7.6	110	0.00
52	T	23Dicl1propene	0.398	0.415	-4.3	106	0.00
53	T	Dibromometha	0.173	0.168	2.9	103	0.00
54	T	methylmethacrylate	0.203	0.244	-20.2#	120	0.00
55	T	14dioxane	0.003	0.003#	0.0	114	0.00
56	PT	Bromodiclrma	0.312	0.314	-0.6	98	0.00
57	T	2Nitropropane	0.126	0.101	19.8	98	0.00
58	T	2CLEVE	0.198	0.228	-15.2	108	0.00
59	PT	c13dicloproe	0.391	0.427	-9.2	108	-0.01
60	PT	4Meth2Pentan	0.362	0.403	-11.3	104	0.00
61	S	SURRd8Tolule	1.134	1.086	4.2	104	0.00
62	PT	Toluene	0.735	0.796	-8.3	106	0.00
63	PT	t13Dicloprop	0.313	0.335	-7.0	109	0.00
64	T	ethylmethacrylate	0.378	0.398	-5.3	105	0.00
65	PT	112Triclotha	0.201	0.211	-5.0	108	0.00
66	PT	Tetrachlorte	0.277	0.311	-12.3	107	0.00
67	T	13Diclorpropa	0.422	0.452	-7.1	108	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	104	0.00
69	PT	2Hexanone	0.406	0.444	-9.4	104	0.00
70	PT	Clorodibrmta	0.309	0.320	-3.6	113	-0.01
71	PT	12Dibrometha	0.338	0.351	-3.8	110	0.00
72	PT	Chlorobenzen	0.968	1.030	-6.4	109	0.00
73	T	1Clhexane	0.569	0.628	-10.4	106	0.00
74	T	1112Tetclota	0.313	0.340	-8.6	112	0.00
75	PT	Ethylbenzene	1.827	2.034	-11.3	106	0.00
76	PT	m p-Xylene	0.661	0.711	-7.6	103	0.00
77	PT	o-Xylene	0.659	0.728	-10.5	110	0.00
78	PT	Styrene	1.078	1.132	-5.0	105	0.00
79	PT	Bromoform	0.218	0.208	4.6	106	0.00
80	PT	Isopropylben	1.558	1.798	-15.4	107	0.00
81	T	cyclohexanone	0.022	0.025#	-13.6	111	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.000	1.000	0.0	105	0.00
83	S	SURR4BrFBenz	1.047	1.044	0.3	105	0.00
84	T	Bromobenzene	0.660	0.752	-13.9	112	0.00
85	PT	1122Tetrclta	0.905	0.905	0.0	100	0.00
86	T	123Triclproa	0.979	0.989	-1.0	105	0.00
87	T	14dichloro2butene	0.979	0.989	-1.0	105	0.00
88	T	n-Propylbenz	3.483	3.958	-13.6	109	0.00
89	T	2chlorotolue	2.073	2.297	-10.8	108	0.00
90	T	4chlorotolue	2.188	2.355	-7.6	106	0.00
91	T	135Trimebenz	2.317	2.599	-12.2	106	0.00
92	T	tbutylbenzen	1.866	2.134	-14.4	109	0.00
93	T	124Trimetben	2.247	2.567	-14.2	107	0.00
94	T	sbutylbenzen	2.788	3.249	-16.5	108	0.00
95	PT	13Diclorbenz	1.177	1.258	-6.9	107	0.00
96	T	pIsopropylto	2.268	2.621	-15.6	110	0.00
97	PT	14dichlorobe	1.279	1.334	-4.3	104	0.00
98	PT	12dichlorobe	1.127	1.203	-6.7	111	0.00
99	T	nButylbenzen	2.205	2.638	-19.6	109	0.00
100	PT	12dibromo3cl	0.161	0.170	-5.6	106	0.00
101	T	135Trichlorobenzene	0.902	1.009	-11.9	104	0.00
102	PT	124Trichlobe	0.769	0.847	-10.1	106	0.00
103	T	Hexachlorobu	0.396	0.481	-21.5#	116	0.00
104	T	Naphthalene	2.023	2.390	-18.1	107	0.00
105	T	123Trichlben	0.731	0.785	-7.4	100	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

W081813.M Tue Aug 20 14:16:55 2013

Evaluate Continuing Calibration Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Aug 19 12:16:29 2013

Quant Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W081813.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.000	20.000	0.0	105	0.00
2	PT	Dichlorodi	10.000	12.263	-22.6#	111	0.00
3	PT	Chloromethan	10.000	10.739	-7.4	101	0.00
4	PT	VinylChlorid	10.000	11.393	-13.9	106	0.00
5	PT	Bromomethane	10.000	13.327	-33.3#	134	0.00
6	PT	Chloroethane	10.000	11.185	-11.9	119	0.00
7	T	Dichloroflmethane	10.000	11.044	-10.4	106	0.00
8	PT	Trichlorofma	10.000	11.923	-19.2	106	0.00
9	T	Ethylether	10.000	10.048	-0.5	101	0.00
10	T	dichlorotfluoroethan	10.000	10.953	-9.5	109	0.00
11	T	propyleneoxide	100.000	110.385	-10.4	108	0.00
12	T	Acrolein	50.000	49.528	0.9	101	0.00
13	PT	11dichlorthe	10.000	11.336	-13.4	108	0.00
14	PT	Trichlorotfluoroeth	20.000	23.877	-19.4	113	0.00
15	PT	Acetone	100.000	84.689	15.3	88	0.00
16	T	Iodomethane	20.000	13.137	34.3#	90	0.00
17	PT	Carbon Dislf	20.000	24.611	-23.1#	110	0.00
18	T	allylchloride	20.000	23.963	-19.8	111	0.00
19	PT	methylacetate	10.000	10.420	-4.2	104	-0.01
20	PT	Methylchlorid	10.000	10.122	-1.2	109	0.00
21	T	tbutylalcohol	500.000	592.845	-18.6	107	0.00
22	T	Acrylonitrile	50.000	53.946	-7.9	104	0.00
23	PT	t12dichlorte	10.000	11.100	-11.0	108	0.00
24	PT	MtBE	10.000	10.192	-1.9	107	-0.01
25	T	Hexane	20.000	21.996	-10.0	110	0.00
26	PT	11dichlorota	10.000	11.025	-10.3	106	0.00
27	T	Vinylacetate	100.000	109.300	-9.3	105	0.00
28	T	chloroprene	20.000	23.327	-16.6	111	0.00
29	T	Diisopether	10.000	10.974	-9.7	107	0.00
30	T	ETBE	10.000	10.530	-5.3	106	0.00
31	T	22dichloropr	10.000	11.001	-10.0	108	0.00
32	PT	c12dichlorte	10.000	10.488	-4.9	106	-0.01
33	PT	2Butanone	100.000	102.748	-2.7	100	0.00
34	T	propionitrile	100.000	113.530	-13.5	108	0.00
35	T	Ethylacetate	50.000	49.270	1.5	99	0.00
36	T	methacrylonitrile	20.000	19.995	0.0	105	0.00
37	T	Bromochlorma	10.000	9.534	4.7	97	0.00
38	T	Tetrahydofur	100.000	110.525	-10.5	102	0.00
39	PT	Chloroform	10.000	10.621	-6.2	107	0.00
40	PT	111trichlota	10.000	10.696	-7.0	105	0.00
41	S	SURRDibrflma	19.000	18.992	0.0	104	0.00
42	PT	Cyclohexane	10.000	10.062	-0.6	105	0.00
43	PT	Carbtetraclo	10.000	9.306	6.9	104	0.00
44	T	11dicloprope	10.000	10.529	-5.3	107	0.00
45	S	SURR12DCAd4	19.000	18.816	1.0	103	0.00
46	PT	Benzene	10.000	10.885	-8.8	103	0.00
47	PT	12dichlorota	10.000	10.107	-1.1	100	0.00
48	T	TAME	10.000	9.927	0.7	102	0.00

49	PT	trichloroete	10.000	11.035	-10.4	109	0.00
50	PT	methylcyclohexane	10.000	10.821	-8.2	110	0.00
51	PT	12dicloropra	10.000	10.773	-7.7	110	0.00
52	T	23Dicl1propene	10.000	10.423	-4.2	106	0.00
53	T	Dibromometha	10.000	9.714	2.9	103	0.00
54	T	methylmethacrylate	10.000	10.425	-4.3	120	0.00
55	T	14dioxane	500.000	649.785	-30.0#	114	0.00
56	PT	Bromodiclrma	10.000	10.068	-0.7	98	0.00
57	T	2Nitropropane	100.000	52.240	47.8#	98	0.00
58	T	2CLEVE	50.000	57.763	-15.5	108	0.00
59	PT	c13dicloproe	10.000	10.929	-9.3	108	-0.01
60	PT	4Meth2Pentan	100.000	107.398	-7.4	104	0.00
61	S	SURRd8Tolule	19.000	18.193	4.2	104	0.00
62	PT	Toluene	10.000	10.822	-8.2	106	0.00
63	PT	t13Dicloprop	10.000	9.082	9.2	109	0.00
64	T	ethylmethacrylate	20.000	21.042	-5.2	105	0.00
65	PT	112Triclotha	10.000	10.480	-4.8	108	0.00
66	PT	Tetrachlorte	10.000	11.257	-12.6	107	0.00
67	T	13Diclorpropa	10.000	10.712	-7.1	108	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.000	20.000	0.0	104	0.00
69	PT	2Hexanone	100.000	109.269	-9.3	104	0.00
70	PT	Clorodibrmta	10.000	9.541	4.6	113	-0.01
71	PT	12Dibrometha	10.000	10.410	-4.1	110	0.00
72	PT	Chlorobenzen	10.000	10.642	-6.4	109	0.00
73	T	1Clhexane	10.000	11.027	-10.3	106	0.00
74	T	1112Tetclota	10.000	9.753	2.5	112	0.00
75	PT	Ethylbenzene	10.000	11.133	-11.3	106	0.00
76	PT	m p-Xylene	20.000	21.518	-7.6	103	0.00
77	PT	o-Xylene	10.000	11.040	-10.4	110	0.00
78	PT	Styrene	10.000	10.499	-5.0	105	0.00
79	PT	Bromoform	10.000	8.362	16.4	106	0.00
80	PT	Isopropylben	10.000	11.536	-15.4	107	0.00
81	T	cyclohexanone	200.000	226.762	-13.4	111	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.000	20.000	0.0	105	0.00
83	S	SURR4BrFBenz	19.000	18.956	0.2	105	0.00
84	T	Bromobenzene	10.000	10.364	-3.6	112	0.00
85	PT	1122Tetrclta	10.000	9.999	0.0	100	0.00
86	T	123Triclproa	10.000	10.102	-1.0	105	0.00
87	T	14dichloro2butene	10.000	10.102	-1.0	105	0.00
88	T	n-Propylbenz	10.000	11.363	-13.6	109	0.00
89	T	2chlorotolue	10.000	11.078	-10.8	108	0.00
90	T	4chlorotolue	10.000	10.763	-7.6	106	0.00
91	T	135Trimebenz	10.000	11.218	-12.2	106	0.00
92	T	tbutylbenzen	10.000	11.440	-14.4	109	0.00
93	T	124Trimetben	10.000	11.422	-14.2	107	0.00
94	T	sbutylbenzen	10.000	11.654	-16.5	108	0.00
95	PT	13Diclorbenz	10.000	10.691	-6.9	107	0.00
96	T	pIsopropylto	10.000	11.555	-15.5	110	0.00
97	PT	14dichlorobe	10.000	10.434	-4.3	104	0.00
98	PT	12dichlorobe	10.000	10.673	-6.7	111	0.00
99	T	nButylbenzen	10.000	11.966	-19.7	109	0.00
100	PT	12dibromo3cl	10.000	9.078	9.2	106	0.00
101	T	135Trichlorobenzene	10.000	11.186	-11.9	104	0.00
102	PT	124Trichlobe	10.000	11.013	-10.1	106	0.00
103	T	Hexachlorobu	10.000	12.138	-21.4#	116	0.00
104	T	Naphthalene	10.000	11.813	-18.1	107	0.00
105	T	123Trichlben	10.000	10.734	-7.3	100	0.00

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

W081813.M Tue Aug 20 14:17:13 2013

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1595510	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1113063	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	665138	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	369286	18.992	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 100		%	
45) SURR12DCAd4	7.12	102	100890	18.816	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 99		%	
61) SURRd8Tolule	9.45	98	1645723	18.193	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 96		%	
83) SURR4BrFBenz	13.04	95	659798	18.956	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 100		%	
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	318341	12.2628	ug/L	97
3) Chloromethan	1.92	50	319063	10.7390	ug/L	98
4) VinylChlorid	2.06	62	295067	11.3934	ug/L	98
5) Bromomethane	2.51	94	106366	13.3270	ug/L	99
6) Chloroethane	2.67	64	155820	11.1850	ug/L	97
7) Dichloroflmethane	3.00	67	448287	11.0437	ug/L	97
8) Trichlorofma	3.00	101	359740	11.9227	ug/L	98
9) Ethylether	3.45	59	186242	10.0479	ug/L	98
10) dichlorotfluoroethan	3.53	67	262056	10.9527	ug/L	99
11) propyleneoxide	3.54	58	447750	110.3853	ug/L	97
12) Acrolein	3.67	56	245323	49.5282	ug/L	97
13) 11dichlorthe	3.74	96	176769	11.3360	ug/L	96
14) Trichlorotfluoroeth	3.73	101	350051	23.8771	ug/L	93
15) Acetone	3.89	43	870246	84.6893	ug/L	99
16) Iodomethane	3.94	142	191833	13.1373	ug/L	97
17) Carbon Dislf	3.99	76	804435	24.6106	ug/L	99
18) allylchloride	4.26	41	693094	23.9631	ug/L	98
19) methylacetate	4.31	74	189012	10.4199	ug/L	96
20) Methylchlorid	4.45	84	210864	10.1218	ug/L	95
21) tbutylalcohol	4.67	59	1691501	592.8445	ug/L	96
22) Acrylonitrile	4.84	53	674778	53.9462	ug/L	95
23) t12dichlorte	4.76	96	227526	11.0996	ug/L	97
24) MtBE	4.76	73	570337	10.1917	ug/L	99
25) Hexane	5.06	57	994742	21.9960	ug/L	100
26) 11dichlorota	5.35	63	493388	11.0250	ug/L	97
27) Vinylacetate	5.41	43	4089446	109.2999	ug/L	99
28) chloroprene	5.43	53	1108774	23.3266	ug/L	97
29) Diisopether	5.39	45	930352	10.9735	ug/L	97
30) ETBE	5.84	59	734336	10.5300	ug/L	98
31) 22dichloropr	6.05	77	302743	11.0007	ug/L	99
32) c12dichlorte	6.09	96	248422	10.4879	ug/L	95
33) 2Butanone	6.12	72	355934	102.7480	ug/L	99
34) propionitrile	6.25	54	567765	113.5301	ug/L	98
35) Ethylacetate	6.17	88	48829	49.2696	ug/L #	94
36) methacrylonitrile	6.40	67	237548	19.9950	ug/L	99
37) Bromochlorma	6.39	128	89405	9.5344	ug/L #	92
38) Tetrahydofur	6.40	42	1164902	110.5252	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.49	83	395239	10.6208	ug/L	99
40)	111trichlota	6.67	97	349399	10.6957	ug/L	94
42)	Cyclohexane	6.67	56	561530	10.0619	ug/L	98
43)	Carbtetraclo	6.84	119	250556	9.3058	ug/L	96
44)	11dicloprope	6.87	110	110433	10.5294	ug/L	99
46)	Benzene	7.11	78	870974	10.8846	ug/L	97
47)	12dichlorota	7.21	62	375375	10.1066	ug/L	99
48)	TAME	7.24	73	476871	9.9272	ug/L	99
49)	trichloroete	7.93	95	246691	11.0353	ug/L	99
50)	methylcyclohexane	8.11	83	475741	10.8214	ug/L	98
51)	12dicloropra	8.25	63	270637	10.7730	ug/L	93
52)	23Dicl1propene	8.31	75	330981	10.4228	ug/L	96
53)	Dibromometha	8.40	93	134204	9.7140	ug/L	97
54)	methylmethacrylate	8.37	69	194598	10.4245	ug/L	90
55)	14dioxane	8.39	88	133513	649.7847	ug/L	97
56)	Bromodiclrma	8.59	83	250870	10.0682	ug/L	91
57)	2Nitropropane	8.93	43	805648	52.2400	ug/L	94
58)	2CLEVE	8.98	63	911355	57.7629	ug/L	99
59)	c13dicloproe	9.16	75	340601	10.9292	ug/L	100
60)	4Meth2Pentan	9.34	43	3216271	107.3979	ug/L	99
62)	Toluene	9.54	92	634705	10.8222	ug/L	96
63)	t13Dicloprop	9.91	75	266915	9.0820	ug/L	96
64)	ethylmethacrylate	9.96	69	634529	21.0417	ug/L	97
65)	112Triclotha	10.14	83	168140	10.4796	ug/L	94
66)	Tetrachlorte	10.24	166	248323	11.2571	ug/L	97
67)	13Diclorpropa	10.37	76	360529	10.7118	ug/L	98
69)	2Hexanone	10.43	43	2470936	109.2692	ug/L	98
70)	Clorodibrmta	10.63	129	178253	9.5410	ug/L	97
71)	12Dibrometha	10.78	107	195615	10.4103	ug/L	94
72)	Chlorobenzen	11.43	112	573363	10.6417	ug/L	98
73)	1Clhexane	11.39	91	349289	11.0273	ug/L	99
74)	1112Tetclota	11.55	131	189165	9.7526	ug/L	95
75)	Ethylbenzene	11.55	91	1132111	11.1331	ug/L	99
76)	m p-Xylene	11.72	106	791474	21.5178	ug/L	92
77)	o-Xylene	12.26	106	404881	11.0401	ug/L	94
78)	Styrene	12.29	104	630126	10.4988	ug/L	98
79)	Bromoform	12.57	173	116014	8.3617	ug/L	94
80)	Isopropylben	12.77	105	1000519	11.5364	ug/L	99
81)	cyclohexanone	12.96	55	277060	226.7620	ug/L	98
84)	Bromobenzene	13.24	156	250023	10.3638	ug/L	95
85)	1122Tetrclta	13.28	83	301084	9.9986	ug/L	90
86)	123Triclproa	13.34	75	329022	10.1020	ug/L	99
87)	14dichloro2butene	13.34	75	329022	10.1020	ug/L	99
88)	n-Propylbenz	13.35	91	1316366	11.3626	ug/L	99
89)	2chlorotolue	13.51	91	763874	11.0779	ug/L	98
90)	4chlorotolue	13.67	91	783263	10.7629	ug/L	99
91)	135Trimebenz	13.61	105	864254	11.2182	ug/L	99
92)	tbutylbenzen	14.06	119	709832	11.4403	ug/L	95
93)	124Trimetben	14.15	105	853618	11.4217	ug/L	99
94)	sbutylbenzen	14.38	105	1080498	11.6540	ug/L	96
95)	13Diclorbenz	14.59	146	418508	10.6912	ug/L	98
96)	pIsopropylto	14.60	119	871723	11.5552	ug/L	98
97)	14dichlorobe	14.73	146	443778	10.4338	ug/L	94
98)	12dichlorobe	15.27	146	399957	10.6727	ug/L	97
99)	nButylbenzen	15.20	91	877396	11.9657	ug/L	96
100)	12dibromo3cl	16.41	157	56591	9.0780	ug/L	91
101)	135Trichlorobenzene	16.66	180	335549	11.1857	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	281615	11.0132	ug/L	98
103) Hexachlorobu	17.69	225	159814	12.1377	ug/L	95
104) Naphthalene	17.82	128	794956	11.8131	ug/L	98
105) 123Trichlben	18.15	180	260988	10.7341	ug/L	89

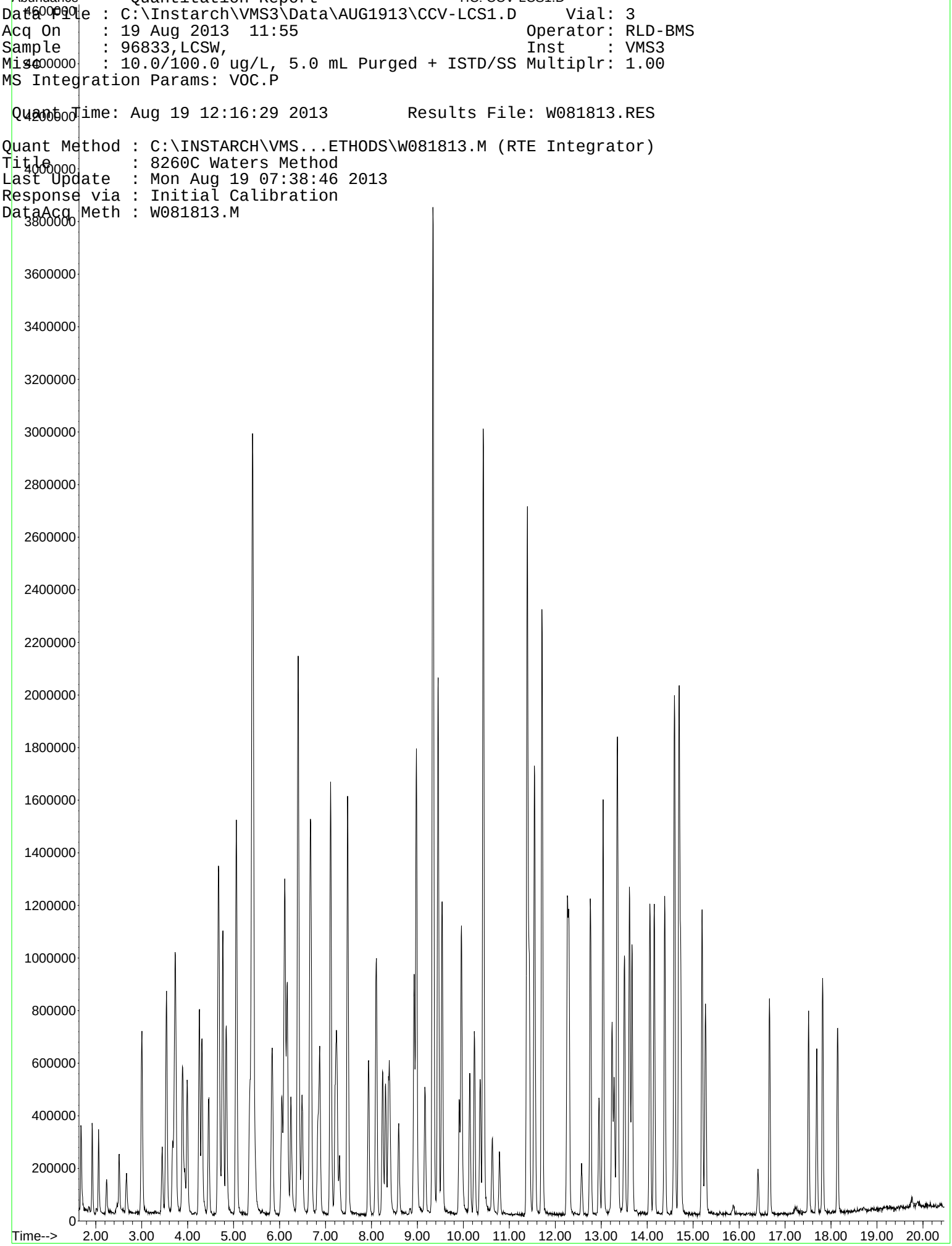
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCV-LCS1.D

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



BFB

Data File : C:\Instarch\VMS3\Data\AUG2313B\BFB1.D Vial: 1
Acq On : 23 Aug 2013 14:31 Operator: RLD-BMS
Sample : 97040,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.360 to 4.367 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.6	25608	PASS
75	95	30	60	50.6	50615	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	5.3	5322	PASS
173	174	0.00	2	0.7	600	PASS
174	95	50	100	80.1	80096	PASS
175	174	5	9	5.0	4032	PASS
176	174	95	101	100.8	80722	PASS
177	176	5	9	5.6	4518	PASS

W081813.M Mon Aug 26 12:45:56 2013

Evaluate Continuing Calibration Report

Data File : C:\Instarch\VMS3\Data\AUG2313B\CCV1.D Vial: 2
Acq On : 23 Aug 2013 15:10 Operator: RLD-BMS
Sample : 97040,CCV, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Aug 23 15:31:24 2013

Quant Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W081813.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	101	0.00
2	PT	Dichlorodi	0.325	0.379	-16.6	102	0.00
3	PT	Chloromethan	0.372	0.263	29.3#	64	0.00
4	PT	VinylChlorid	0.325	0.338	-4.0	94	0.00
5	PT	Bromomethane	0.100	0.019#	81.0#	18#	0.00
6	PT	Chloroethane	0.175	0.215	-22.9#	126	0.00
7	T	Dichloroflmethane	0.509	0.572	-12.4	103	0.00
8	PT	Trichlorofma	0.378	0.444	-17.5	101	-0.01
9	T	Ethylether	0.245	0.238	2.9	99	0.00
10	T	dichlorotfluoroethan	0.267	0.321	-20.2#	102	0.00
11	T	propyleneoxide	0.051	0.046	9.8	86	0.00
12	T	Acrolein	0.062	0.052	16.1	82	0.00
13	PT	11dichlorthe	0.195	0.214	-9.7	100	-0.01
14	PT	Trichlorotfluoroeth	0.184	0.208	-13.0	104	-0.01
15	PT	Acetone	0.133	0.179	-34.6#	139	0.00
16	T	Iodomethane	0.136	0.050	63.2#	36#	0.00
17	PT	Carbon Dislf	0.410	0.399	2.7	84	0.00
18	T	allylchloride	0.363	0.431	-18.7	106	0.00
19	PT	methylacetate	0.227	0.241	-6.2	102	-0.01
20	PT	Methylchlorid	0.261	0.270	-3.4	107	0.00
21	T	tbutylalcohol	0.036	0.035	2.8	85	-0.01
22	T	Acrylonitrile	0.157	0.154	1.9	91	0.00
23	PT	t12dichlorte	0.257	0.277	-7.8	101	0.00
24	PT	MtBE	0.701	0.690	1.6	99	-0.01
25	T	Hexane	0.495	0.543	-9.7	92	0.00
26	PT	11dichlorota	0.561	0.572	-2.0	94	0.00
27	T	Vinylacetate	0.452	0.486	-7.5	95	0.00
28	T	chloroprene	0.596	0.662	-11.1	102	0.00
29	T	Diisopether	1.063	1.140	-7.2	101	-0.01
30	T	ETBE	0.874	0.817	6.5	90	-0.01
31	T	22dichloropr	0.345	0.366	-6.1	100	0.00
32	PT	c12dichlorte	0.297	0.311	-4.7	101	0.00
33	PT	2Butanone	0.043	0.046#	-7.0	98	0.00
34	T	propionitrile	0.063	0.066	-4.8	96	-0.01
35	T	Ethylacetate	0.011	0.013#	-18.2	98	-0.01
36	T	methacrylonitrile	0.149	0.161	-8.1	109	0.00
37	T	Bromochlorma	0.118	0.115	2.5	96	0.00
38	T	Tetrahydofur	0.132	0.134	-1.5	90	-0.01
39	PT	Chloroform	0.466	0.491	-5.4	102	0.00
40	PT	111trichlota	0.409	0.445	-8.8	102	0.00
41	S	SURRDibrflma	0.244	0.248	-1.6	101	0.00
42	PT	Cyclohexane	0.604	0.681	-12.7	97	0.00
43	PT	Carbtetraclo	0.289	0.316	-9.3	100	0.00
44	T	11dicloprope	0.131	0.127	3.1	94	0.00
45	S	SURR12DCAd4	0.067	0.064	4.5	95	0.00
46	PT	Benzene	1.003	1.100	-9.7	100	0.00
47	PT	12dichlorota	0.466	0.481	-3.2	98	0.00
48	T	TAME	0.602	0.547	9.1	90	0.00

49	PT	trichloroete	0.280	0.302	-7.9	102	0.00
50	PT	methylcyclohexane	0.461	0.550	-19.3	98	0.00
51	PT	12dicloropra	0.315	0.350	-11.1	109	0.00
52	T	23Dicl1propene	0.398	0.393	1.3	97	0.00
53	T	Dibromometha	0.173	0.175	-1.2	103	-0.01
54	T	methylmethacrylate	0.203	0.221	-8.9	105	0.00
55	T	14dioxane	0.003	0.003#	0.0	84	0.00
56	PT	Bromodiclrma	0.312	0.334	-7.1	100	0.00
57	T	2Nitropropane	0.126	0.179	-42.1#	167	0.00
58	T	2CLEVE	0.198	0.213	-7.6	97	0.00
59	PT	c13dicloproe	0.391	0.411	-5.1	100	-0.01
60	PT	4Meth2Pentan	0.362	0.389	-7.5	97	0.00
61	S	SURRd8Tolule	1.134	1.088	4.1	100	0.00
62	PT	Toluene	0.735	0.767	-4.4	99	0.00
63	PT	t13Dicloprop	0.313	0.328	-4.8	103	0.00
64	T	ethylmethacrylate	0.378	0.414	-9.5	106	0.00
65	PT	112Triclotha	0.201	0.215	-7.0	106	0.00
66	PT	Tetrachlorte	0.277	0.303	-9.4	101	0.00
67	T	13Diclorpropa	0.422	0.451	-6.9	104	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	98	0.00
69	PT	2Hexanone	0.406	0.452	-11.3	100	0.00
70	PT	Clorodibrmta	0.309	0.317	-2.6	107	-0.01
71	PT	12Dibrometha	0.338	0.335	0.9	99	0.00
72	PT	Chlorobenzen	0.968	1.044	-7.9	105	0.00
73	T	1Clhexane	0.569	0.596	-4.7	95	0.00
74	T	1112Tetclota	0.313	0.331	-5.8	103	0.00
75	PT	Ethylbenzene	1.827	2.074	-13.5	103	0.00
76	PT	m p-Xylene	0.661	0.734	-11.0	101	0.00
77	PT	o-Xylene	0.659	0.686	-4.1	98	0.00
78	PT	Styrene	1.078	1.139	-5.7	100	0.00
79	PT	Bromoform	0.218	0.220	-0.9	106	0.00
80	PT	Isopropylben	1.558	1.828	-17.3	103	0.00
81	T	cyclohexanone	0.022	0.021#	4.5	89	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.000	1.000	0.0	97	0.00
83	S	SURR4BrFBenz	1.047	1.105	-5.5	103	0.00
84	T	Bromobenzene	0.660	0.763	-15.6	105	0.00
85	PT	1122Tetrclta	0.905	0.989	-9.3	101	0.00
86	T	123Triclproa	0.979	0.966	1.3	95	0.00
87	T	14dichloro2butene	0.979	0.966	1.3	95	0.00
88	T	n-Propylbenz	3.483	3.987	-14.5	101	0.00
89	T	2chlorotolue	2.073	2.313	-11.6	100	0.00
90	T	4chlorotolue	2.188	2.467	-12.8	102	0.00
91	T	135Trimebenz	2.317	2.639	-13.9	99	0.00
92	T	tbutylbenzen	1.866	2.202	-18.0	104	0.00
93	T	124Trimetben	2.247	2.532	-12.7	98	0.00
94	T	sbutylbenzen	2.788	3.228	-15.8	99	0.00
95	PT	13Diclorbenz	1.177	1.301	-10.5	102	0.00
96	T	pIsopropylto	2.268	2.609	-15.0	101	0.00
97	PT	14dichlorobe	1.279	1.369	-7.0	98	0.00
98	PT	12dichlorobe	1.127	1.240	-10.0	105	0.00
99	T	nButylbenzen	2.205	2.581	-17.1	99	0.00
100	PT	12dibromo3cl	0.161	0.167	-3.7	95	0.00
101	T	135Trichlorobenzene	0.902	1.015	-12.5	97	0.00
102	PT	124Trichlobe	0.769	0.897	-16.6	104	0.00
103	T	Hexachlorobu	0.396	0.426	-7.6	95	0.00
104	T	Naphthalene	2.023	2.417	-19.5	99	0.00
105	T	123Trichlben	0.731	0.840	-14.9	98	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 0

W081813.M Mon Aug 26 12:46:47 2013

Evaluate Continuing Calibration Report

Data File : C:\Instarch\VMS3\Data\AUG2313B\CCV1.D Vial: 2
Acq On : 23 Aug 2013 15:10 Operator: RLD-BMS
Sample : 97040,CCV, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Aug 23 15:31:24 2013

Quant Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W081813.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.000	20.000	0.0	101	0.00
2	PT	Dichlorodi	10.000	11.654	-16.5	102	0.00
3	PT	Chloromethan	10.000	7.066	29.3#	64	0.00
4	PT	VinylChlorid	10.000	10.420	-4.2	94	0.00
5	PT	Bromomethane	10.000	1.850	81.5#	18	0.00
6	PT	Chloroethane	10.000	12.322	-23.2#	126	0.00
7	T	Dichloroflmethane	10.000	11.242	-12.4	103	0.00
8	PT	Trichlorofma	10.000	11.751	-17.5	101	-0.01
9	T	Ethylether	10.000	10.240	-2.4	99	0.00
10	T	dichlorotfluoroethan	10.000	10.684	-6.8	102	0.00
11	T	propyleneoxide	100.000	90.947	9.1	86	0.00
12	T	Acrolein	50.000	41.595	16.8	82	0.00
13	PT	11dichlorthe	10.000	10.935	-9.4	100	-0.01
14	PT	Trichlorotfluoroeth	20.000	22.667	-13.3	104	-0.01
15	PT	Acetone	100.000	144.305	-44.3#	139	0.00
16	T	Iodomethane	20.000	5.472	72.6#	36	0.00
17	PT	Carbon Dislf	20.000	19.468	2.7	84	0.00
18	T	allylchloride	20.000	23.774	-18.9	106	0.00
19	PT	methylacetate	10.000	10.578	-5.8	102	-0.01
20	PT	Methylchlorid	10.000	10.347	-3.5	107	0.00
21	T	tbutylalcohol	500.000	489.554	2.1	85	-0.01
22	T	Acrylonitrile	50.000	49.243	1.5	91	0.00
23	PT	t12dichlorte	10.000	10.780	-7.8	101	0.00
24	PT	MtBE	10.000	9.835	1.6	99	-0.01
25	T	Hexane	20.000	19.031	4.8	92	0.00
26	PT	11dichlorota	10.000	10.198	-2.0	94	0.00
27	T	Vinylacetate	100.000	102.702	-2.7	95	0.00
28	T	chloroprene	20.000	22.214	-11.1	102	0.00
29	T	Diisopether	10.000	10.727	-7.3	101	-0.01
30	T	ETBE	10.000	9.347	6.5	90	-0.01
31	T	22dichloropr	10.000	10.598	-6.0	100	0.00
32	PT	c12dichlorte	10.000	10.477	-4.8	101	0.00
33	PT	2Butanone	100.000	104.822	-4.8	98	0.00
34	T	propionitrile	100.000	105.367	-5.4	96	-0.01
35	T	Ethylacetate	50.000	50.748	-1.5	98	-0.01
36	T	methacrylonitrile	20.000	21.594	-8.0	109	0.00
37	T	Bromochlorma	10.000	9.748	2.5	96	0.00
38	T	Tetrahydofur	100.000	101.516	-1.5	90	-0.01
39	PT	Chloroform	10.000	10.529	-5.3	102	0.00
40	PT	111trichlota	10.000	10.860	-8.6	102	0.00
41	S	SURRDibrflma	19.000	19.328	-1.7	101	0.00
42	PT	Cyclohexane	10.000	9.725	2.8	97	0.00
43	PT	Carbtetraclo	10.000	9.359	6.4	100	0.00
44	T	11dicloprope	10.000	9.697	3.0	94	0.00
45	S	SURR12DCAd4	19.000	18.099	4.7	95	0.00
46	PT	Benzene	10.000	10.962	-9.6	100	0.00
47	PT	12dichlorota	10.000	10.331	-3.3	98	0.00
48	T	TAME	10.000	9.090	9.1	90	0.00

49	PT	trichloroete	10.000	10.764	-7.6	102	0.00
50	PT	methylcyclohexane	10.000	9.962	0.4	98	0.00
51	PT	12dicloropra	10.000	11.099	-11.0	109	0.00
52	T	23Dicl1propene	10.000	9.876	1.2	97	0.00
53	T	Dibromometha	10.000	10.096	-1.0	103	-0.01
54	T	methylmethacrylate	10.000	9.462	5.4	105	0.00
55	T	14dioxane	500.000	496.190	0.8	84	0.00
56	PT	Bromodiclrma	10.000	10.683	-6.8	100	0.00
57	T	2Nitropropane	100.000	93.829	6.2	167	0.00
58	T	2CLEVE	50.000	53.970	-7.9	97	0.00
59	PT	c13dicloproe	10.000	10.515	-5.2	100	-0.01
60	PT	4Meth2Pentan	100.000	103.078	-3.1	97	0.00
61	S	SURRd8Tolule	19.000	18.234	4.0	100	0.00
62	PT	Toluene	10.000	10.431	-4.3	99	0.00
63	PT	t13Dicloprop	10.000	8.911	10.9	103	0.00
64	T	ethylmethacrylate	20.000	21.919	-9.6	106	0.00
65	PT	112Triclotha	10.000	10.677	-6.8	106	0.00
66	PT	Tetrachlorte	10.000	10.961	-9.6	101	0.00
67	T	13Diclorpropa	10.000	10.682	-6.8	104	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.000	20.000	0.0	98	0.00
69	PT	2Hexanone	100.000	111.304	-11.3	100	0.00
70	PT	Clorodibrmta	10.000	9.453	5.5	107	-0.01
71	PT	12Dibrometha	10.000	9.928	0.7	99	0.00
72	PT	Chlorobenzen	10.000	10.783	-7.8	105	0.00
73	T	1Clhexane	10.000	10.468	-4.7	95	0.00
74	T	1112Tetclota	10.000	9.495	5.1	103	0.00
75	PT	Ethylbenzene	10.000	11.352	-13.5	103	0.00
76	PT	m p-Xylene	20.000	22.224	-11.1	101	0.00
77	PT	o-Xylene	10.000	10.412	-4.1	98	0.00
78	PT	Styrene	10.000	10.561	-5.6	100	0.00
79	PT	Bromoform	10.000	8.822	11.8	106	0.00
80	PT	Isopropylben	10.000	11.729	-17.3	103	0.00
81	T	cyclohexanone	200.000	190.049	5.0	89	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.000	20.000	0.0	97	0.00
83	S	SURR4BrFBenz	19.000	20.059	-5.6	103	0.00
84	T	Bromobenzene	10.000	10.520	-5.2	105	0.00
85	PT	1122Tetrclta	10.000	10.923	-9.2	101	0.00
86	T	123Triclproa	10.000	9.863	1.4	95	0.00
87	T	14dichloro2butene	10.000	9.863	1.4	95	0.00
88	T	n-Propylbenz	10.000	11.445	-14.5	101	0.00
89	T	2chlorotolue	10.000	11.157	-11.6	100	0.00
90	T	4chlorotolue	10.000	11.275	-12.8	102	0.00
91	T	135Trimebenz	10.000	11.392	-13.9	99	0.00
92	T	tbutylbenzen	10.000	11.802	-18.0	104	0.00
93	T	124Trimetben	10.000	11.266	-12.7	98	0.00
94	T	sbutylbenzen	10.000	11.577	-15.8	99	0.00
95	PT	13Diclorbenz	10.000	11.055	-10.5	102	0.00
96	T	pIsopropylto	10.000	11.503	-15.0	101	0.00
97	PT	14dichlorobe	10.000	10.701	-7.0	98	0.00
98	PT	12dichlorobe	10.000	11.000	-10.0	105	0.00
99	T	nButylbenzen	10.000	11.704	-17.0	99	0.00
100	PT	12dibromo3cl	10.000	8.883	11.2	95	0.00
101	T	135Trichlorobenzene	10.000	11.256	-12.6	97	0.00
102	PT	124Trichlobe	10.000	11.672	-16.7	104	0.00
103	T	Hexachlorobu	10.000	10.765	-7.7	95	0.00
104	T	Naphthalene	10.000	11.944	-19.4	99	0.00
105	T	123Trichlben	10.000	11.496	-15.0	98	0.00

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

W081813.M Mon Aug 26 12:47:04 2013

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG2313B\CCV1.D Vial: 2
Acq On : 23 Aug 2013 15:10 Operator: RLD-BMS
Sample : 97040,CCV, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 15:31:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1535989	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1056651	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	614122	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	361810	19.328	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.11	102	93428	18.099	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 95	%		
61) SURRd8Tolule	9.45	98	1587865	18.234	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 96	%		
83) SURR4BrFBenz	13.04	95	644641	20.059	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 106	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	291237	11.6535	ug/L	99
3) Chloromethan	1.92	50	202094	7.0656	ug/L	99
4) VinylChlorid	2.06	62	259801	10.4205	ug/L	100
5) Bromomethane	2.51	94	14211	1.8496	ug/L	88
6) Chloroethane	2.67	64	165254	12.3218	ug/L	97
7) Dichloroflmethane	3.00	67	439330	11.2425	ug/L	97
8) Trichlorofma	3.00	101	341324	11.7507	ug/L	99
9) Ethylether	3.45	59	182656	10.2399	ug/L	96
10) dichlorotfluoroethan	3.53	67	246200	10.6841	ug/L	96
11) propyleneoxide	3.54	58	355141	90.9469	ug/L	98
12) Acrolein	3.67	56	198342	41.5949	ug/L	100
13) 11dichlorthe	3.73	96	164162	10.9355	ug/L	94
14) Trichlorotfluoroeth	3.72	101	319918	22.6673	ug/L	97
15) Acetone	3.89	43	1378331	144.3053	ug/L	93
16) Iodomethane	3.95	142	77463	5.4720	ug/L	91
17) Carbon Dislf	4.00	76	612596	19.4678	ug/L	99
18) allylchloride	4.25	41	661969	23.7739	ug/L	99
19) methylacetate	4.31	74	184726	10.5783	ug/L	91
20) Methylchlorid	4.46	84	207509	10.3468	ug/L	93
21) tbutylalcohol	4.66	59	1344685	489.5539	ug/L	91
22) Acrylonitrile	4.84	53	592971	49.2430	ug/L	96
23) t12dichlorte	4.76	96	212734	10.7801	ug/L	97
24) MtBE	4.76	73	529834	9.8348	ug/L	96
25) Hexane	5.06	57	833620	19.0308	ug/L	99
26) 11dichlorota	5.35	63	439345	10.1978	ug/L	93
27) Vinylacetate	5.41	43	3729475	102.7019	ug/L	100
28) chloroprene	5.43	53	1016485	22.2137	ug/L	98
29) Diisopether	5.38	45	875527	10.7271	ug/L	100
30) ETBE	5.83	59	627548	9.3474	ug/L	95
31) 22dichloropr	6.05	77	280773	10.5977	ug/L	99
32) c12dichlorte	6.10	96	238897	10.4766	ug/L	98
33) 2Butanone	6.11	72	349571	104.8216	ug/L	95
34) propionitrile	6.24	54	507285	105.3673	ug/L	98
35) Ethylacetate	6.16	88	48455	50.7477	ug/L #	91
36) methacrylonitrile	6.40	67	246971	21.5938	ug/L #	83
37) Bromochlorma	6.39	128	88002	9.7484	ug/L #	89
38) Tetrahydofur	6.40	42	1030033	101.5160	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG2313B\CCV1.D Vial: 2
Acq On : 23 Aug 2013 15:10 Operator: RLD-BMS
Sample : 97040,CCV, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 15:31:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.49	83	377220	10.5294 ug/L		98
40)	111trichlota	6.66	97	341522	10.8597 ug/L		98
42)	Cyclohexane	6.67	56	522893	9.7251 ug/L		100
43)	Carbtetraclo	6.83	119	242576	9.3586 ug/L		90
44)	11dicloprope	6.87	110	97908	9.6969 ug/L	#	90
46)	Benzene	7.11	78	844459	10.9622 ug/L		97
47)	12dichlorota	7.21	62	369411	10.3314 ug/L		98
48)	TAME	7.24	73	420354	9.0897 ug/L		85
49)	trichloroete	7.93	95	231655	10.7643 ug/L		96
50)	methylcyclohexane	8.11	83	422273	9.9621 ug/L		99
51)	12dicloropra	8.24	63	268430	11.0992 ug/L		98
52)	23Dicl1propene	8.31	75	301919	9.8760 ug/L		93
53)	Dibromometha	8.39	93	134279	10.0960 ug/L		93
54)	methylmethacrylate	8.36	69	169897	9.4622 ug/L		94
55)	14dioxane	8.39	88	98150	496.1896 ug/L		98
56)	Bromodiclrma	8.59	83	256249	10.6826 ug/L		94
57)	2Nitropropane	8.92	43	1373421	93.8286 ug/L	#	68
58)	2CLEVE	8.98	63	819745	53.9699 ug/L		98
59)	c13dicloproe	9.16	75	315454	10.5146 ug/L		99
60)	4Meth2Pentan	9.34	43	2985996	103.0781 ug/L		99
62)	Toluene	9.53	92	588963	10.4314 ug/L		95
63)	t13Dicloprop	9.91	75	252111	8.9114 ug/L		98
64)	ethylmethacrylate	9.96	69	636337	21.9193 ug/L		94
65)	112Triclotha	10.14	83	164919	10.6771 ug/L		94
66)	Tetrachlorte	10.24	166	232769	10.9609 ug/L		96
67)	13Diclorpropa	10.36	76	346118	10.6822 ug/L		99
69)	2Hexanone	10.43	43	2389397	111.3045 ug/L		99
70)	Clorodibrmta	10.63	129	167637	9.4534 ug/L		100
71)	12Dibrometha	10.78	107	177105	9.9284 ug/L		99
72)	Chlorobenzen	11.44	112	551523	10.7828 ug/L		97
73)	1Clhexane	11.39	91	314771	10.4680 ug/L		97
74)	1112Tetclota	11.55	131	174812	9.4953 ug/L		99
75)	Ethylbenzene	11.55	91	1095868	11.3520 ug/L		98
76)	m p-Xylene	11.72	106	776023	22.2241 ug/L		98
77)	o-Xylene	12.26	106	362510	10.4125 ug/L		97
78)	Styrene	12.30	104	601736	10.5610 ug/L		98
79)	Bromoform	12.57	173	116273	8.8225 ug/L		97
80)	Isopropylben	12.76	105	965703	11.7294 ug/L		96
81)	cyclohexanone	12.95	55	220435	190.0488 ug/L		99
84)	Bromobenzene	13.24	156	234243	10.5199 ug/L		99
85)	1122Tetrclta	13.28	83	303687	10.9228 ug/L		98
86)	123Triclproa	13.34	75	296595	9.8628 ug/L		95
87)	14dichloro2butene	13.34	75	296595	9.8628 ug/L		98
88)	n-Propylbenz	13.35	91	1224220	11.4451 ug/L		99
89)	2chlorotolue	13.50	91	710327	11.1571 ug/L		100
90)	4chlorotolue	13.67	91	757607	11.2752 ug/L		99
91)	135Trimebenz	13.61	105	810309	11.3917 ug/L		97
92)	tbutylbenzen	14.06	119	676086	11.8016 ug/L		96
93)	124Trimetben	14.16	105	777407	11.2661 ug/L		100
94)	sbutylbenzen	14.38	105	991059	11.5773 ug/L		98
95)	13Diclorbenz	14.59	146	399554	11.0550 ug/L		97
96)	pIsopropylto	14.59	119	801258	11.5034 ug/L		98
97)	14dichlorobe	14.73	146	420226	10.7008 ug/L		96
98)	12dichlorobe	15.27	146	380611	11.0002 ug/L		98
99)	nButylbenzen	15.20	91	792407	11.7044 ug/L		96
100)	12dibromo3cl	16.41	157	51139	8.8827 ug/L		91
101)	135Trichlorobenzene	16.66	180	311771	11.2564 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG2313B\CCV1.D Vial: 2
Acq On : 23 Aug 2013 15:10 Operator: RLD-BMS
Sample : 97040,CCV, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 15:31:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

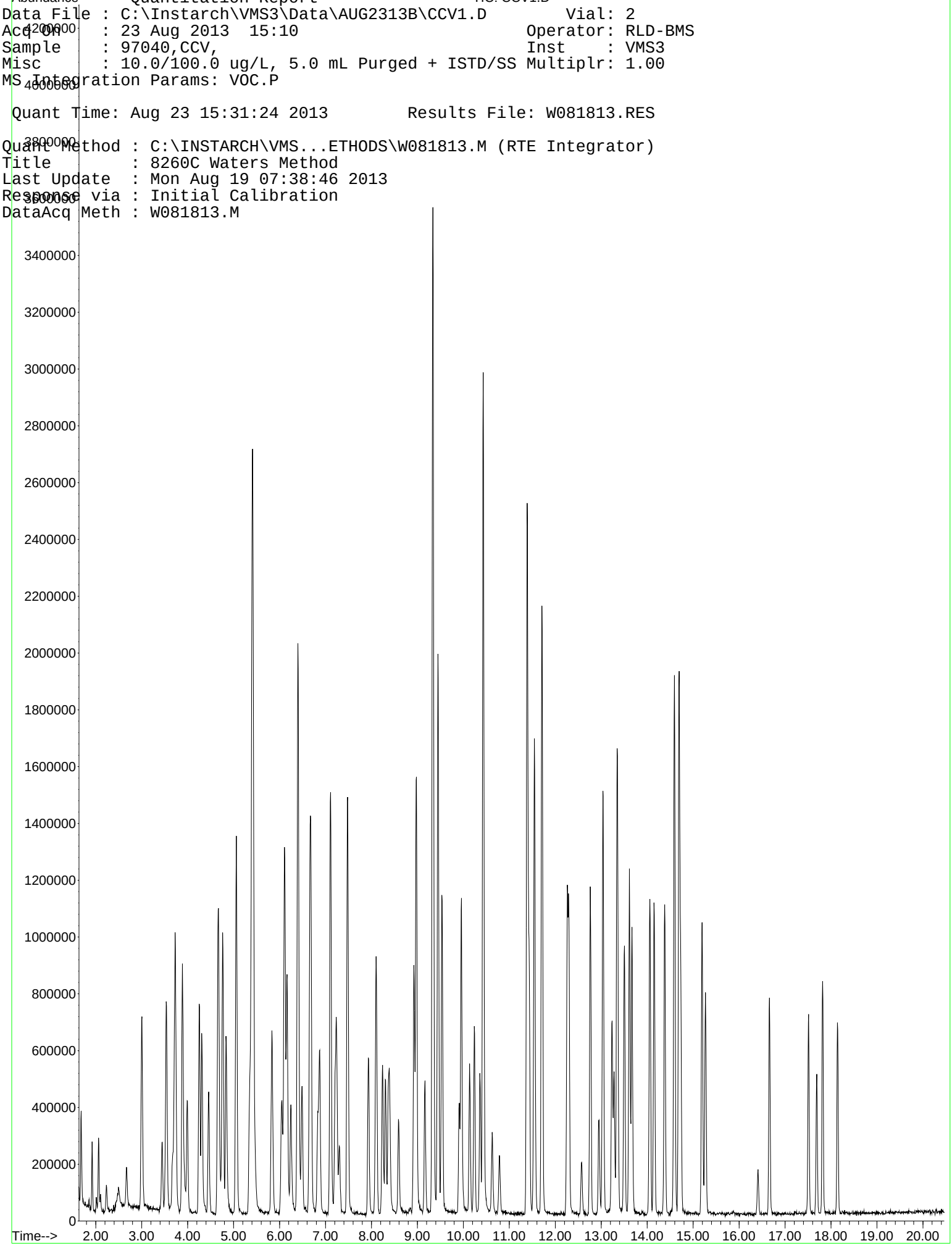
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	275579	11.6724	ug/L	99
103) Hexachlorobu	17.69	225	130873	10.7654	ug/L	97
104) Naphthalene	17.82	128	742124	11.9442	ug/L	98
105) 123Trichlben	18.15	180	258073	11.4960	ug/L	99

(#) = qualifier out of range (m) = manual integration

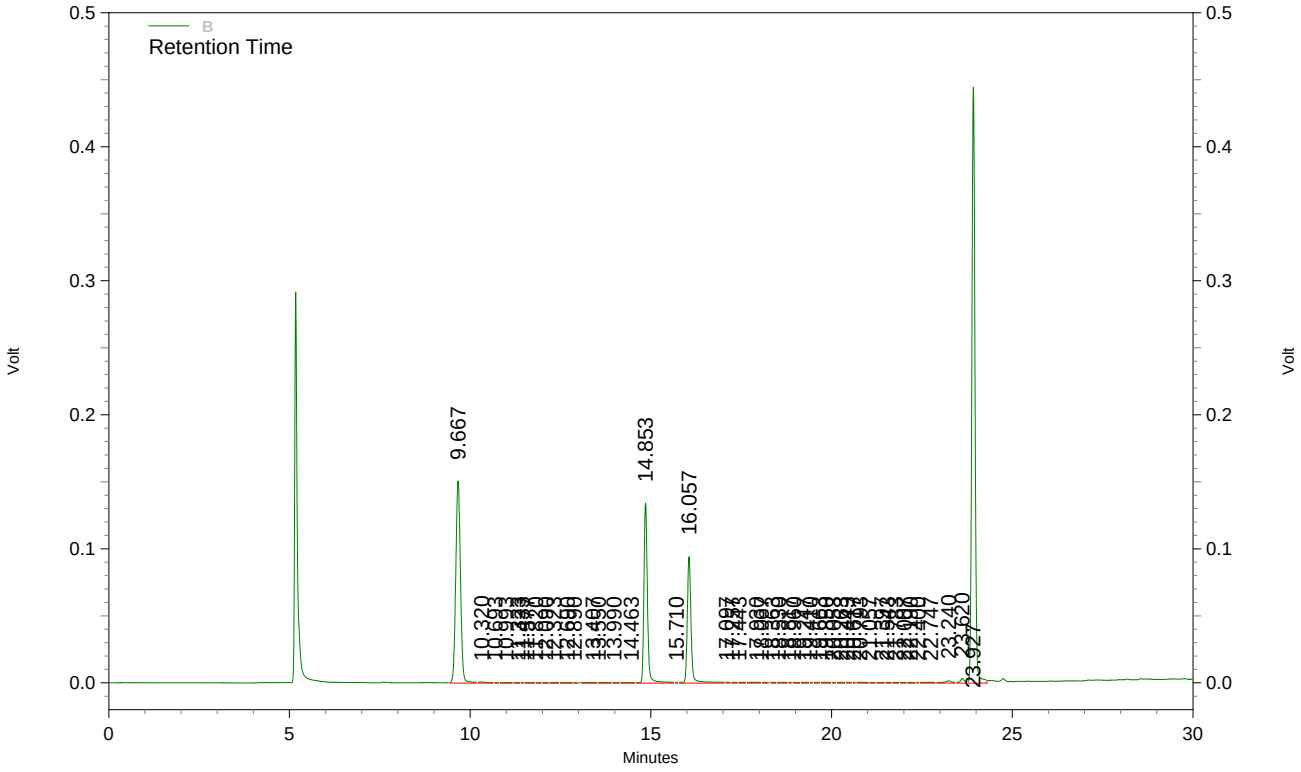
Data File : C:\Instarch\VMS3\Data\AUG2313B\CCV1.D Vial: 2
Acq On : 23 Aug 2013 15:10 Operator: RLD-BMS
Sample : 97040,CCV, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 15:31:24 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\002.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 09:45:07
Sample ID : 96941,RTW,
File Desc. : RETENTION TIME WINDOW 8015
5.0 mL PURGED + ISTD/SSTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	694280	83.206	16.057
GRO	5301253	106.502	

QC Check Standard Report

Sequence : C:\Instarch\PVOC2\Sequences\082113-8015W.seq
User : BMS
Printed : Aug 23, 2013 07:43:42

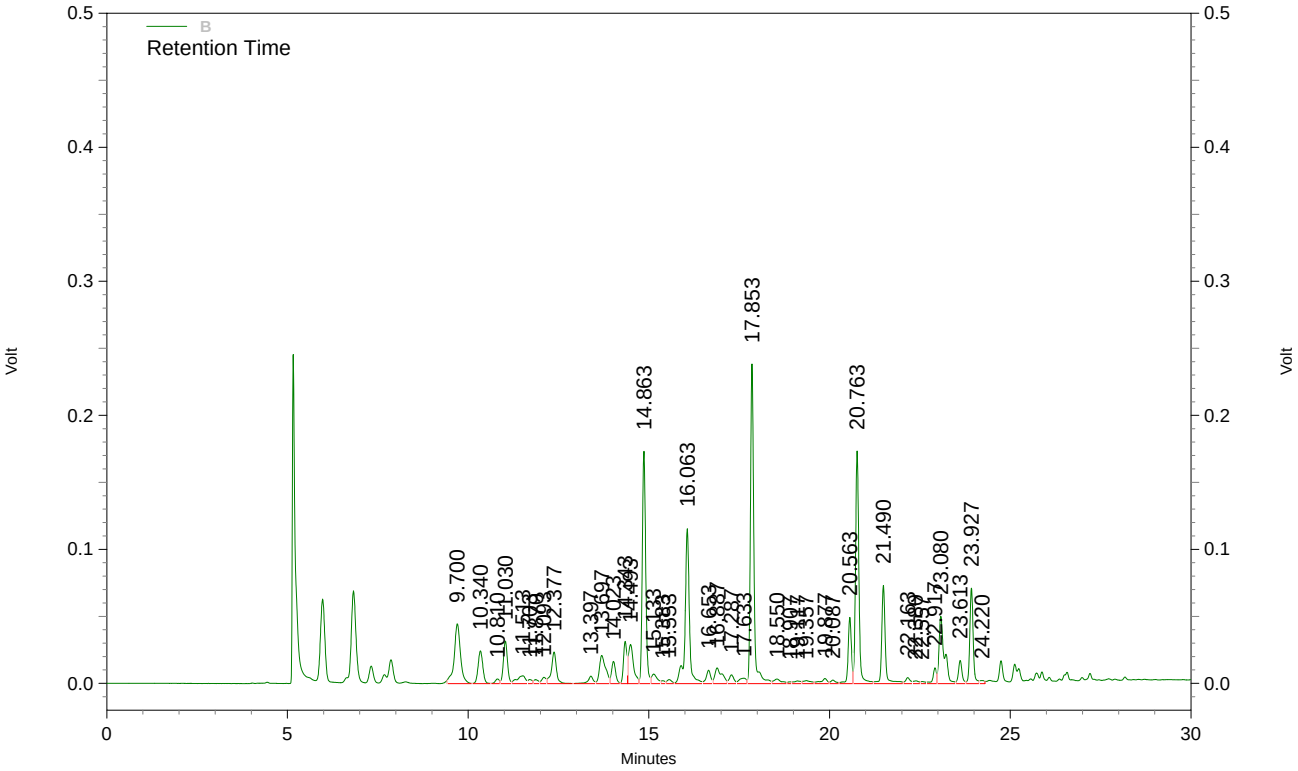
File	Sample ID	Acquired
C:\Instarch\PVOC2\Data\082113-8015w\003.dat	96941,CCV,	Aug 23, 2013 07:43:42

B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
S:aaaTFT	100.000	116.565	16.565	30.000	**Passed**
GRO	200.000	192.755	3.622	15.000	**Passed**

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\003.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 10:28:13
Sample ID : 96941,CCV,
File Desc. : GRO WATER CCV

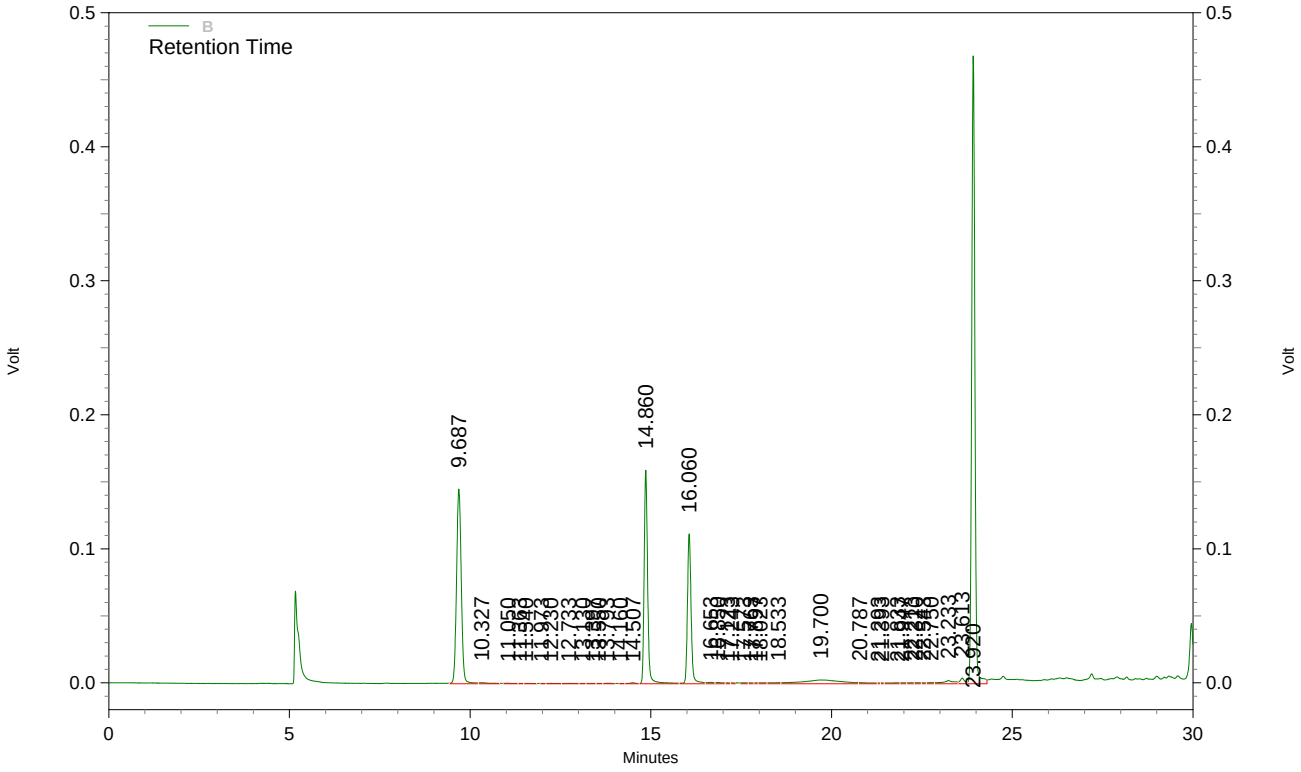
GRO=200ug/l
20.0 uL OF 8015 CCV STD. INTO 100 mL DI WATER---5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	965869	116.565	16.063
GRO	9064835	192.755	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\018.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 21:07:25
Sample ID : 96941,RTW,
File Desc. : RETENTION TIME WINDOW 8015
5.0 mL PURGED + ISTD/SSTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	788560	94.786	16.060
GRO	5802376	117.987	

QC Check Standard Report

Sequence : C:\Instarch\PVOC2\Sequences\082113-8015W.seq
User : BMS
Printed : Aug 23, 2013 07:45:03

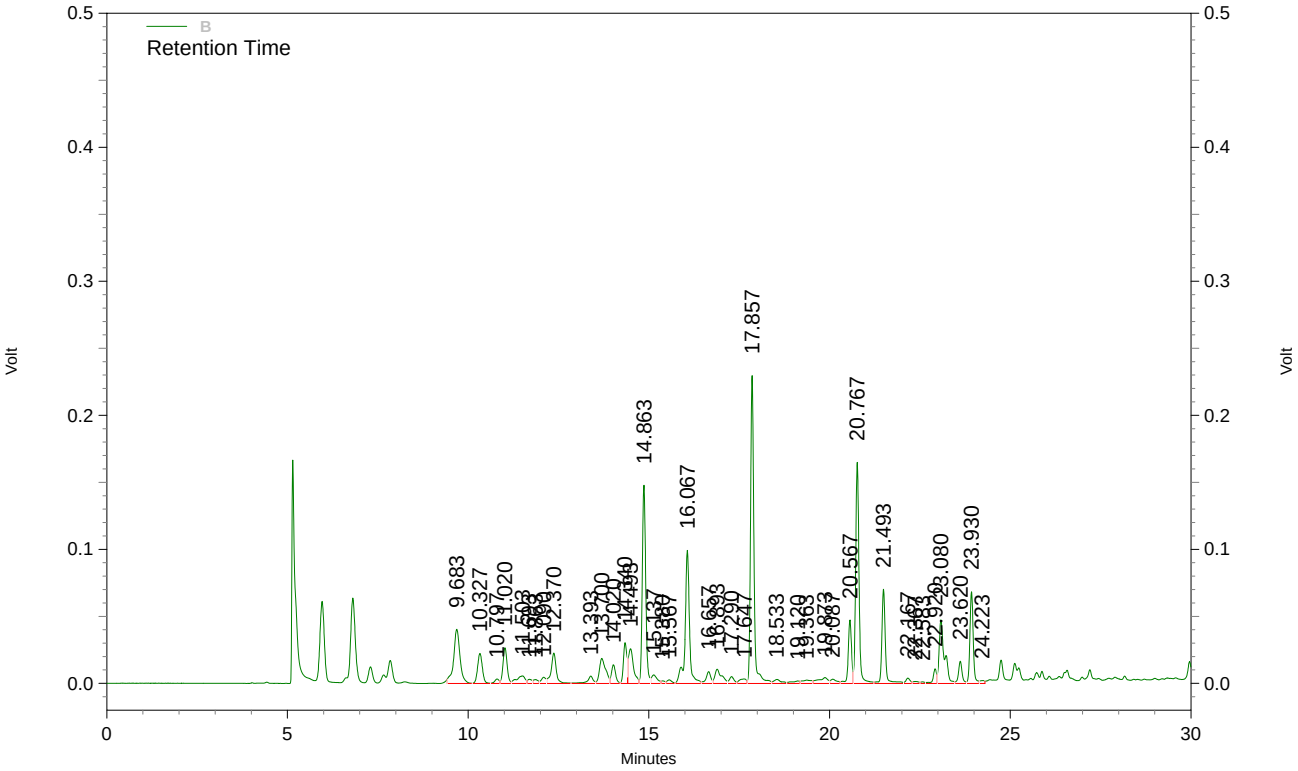
File	Sample ID	Acquired
C:\Instarch\PVOC2\Data\082113-8015w\019.dat	96941,CCV,	Aug 23, 2013 07:45:02

B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
S:aaaTFT	100.000	100.647	0.647	30.000	**Passed**
GRO	200.000	178.293	10.854	15.000	**Passed**

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\019.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 21:49:58
Sample ID : 96941,CCV,
File Desc. : GRO WATER CCV

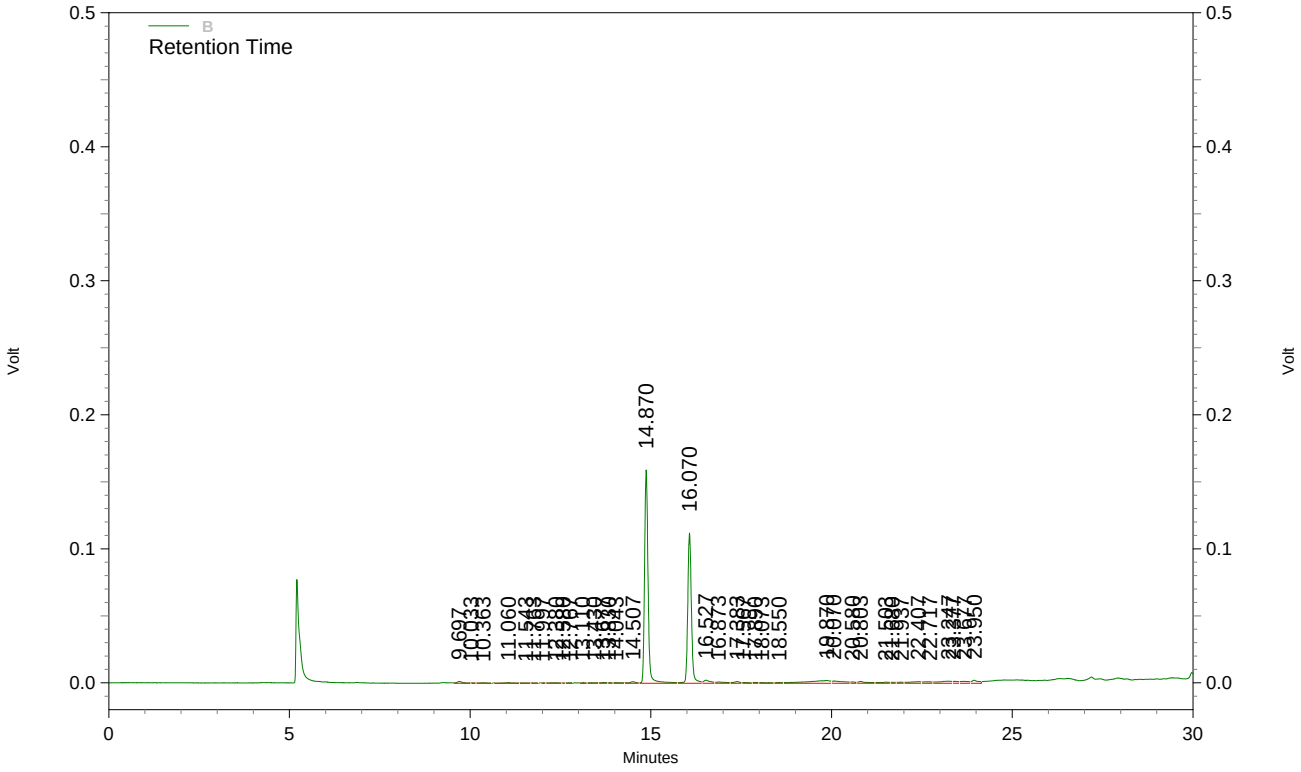
GRO=200ug/l
20.0 uL OF 8015 CCV STD. INTO 100 mL DI WATER---5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	836275	100.647	16.067
GRO	8433775	178.293	

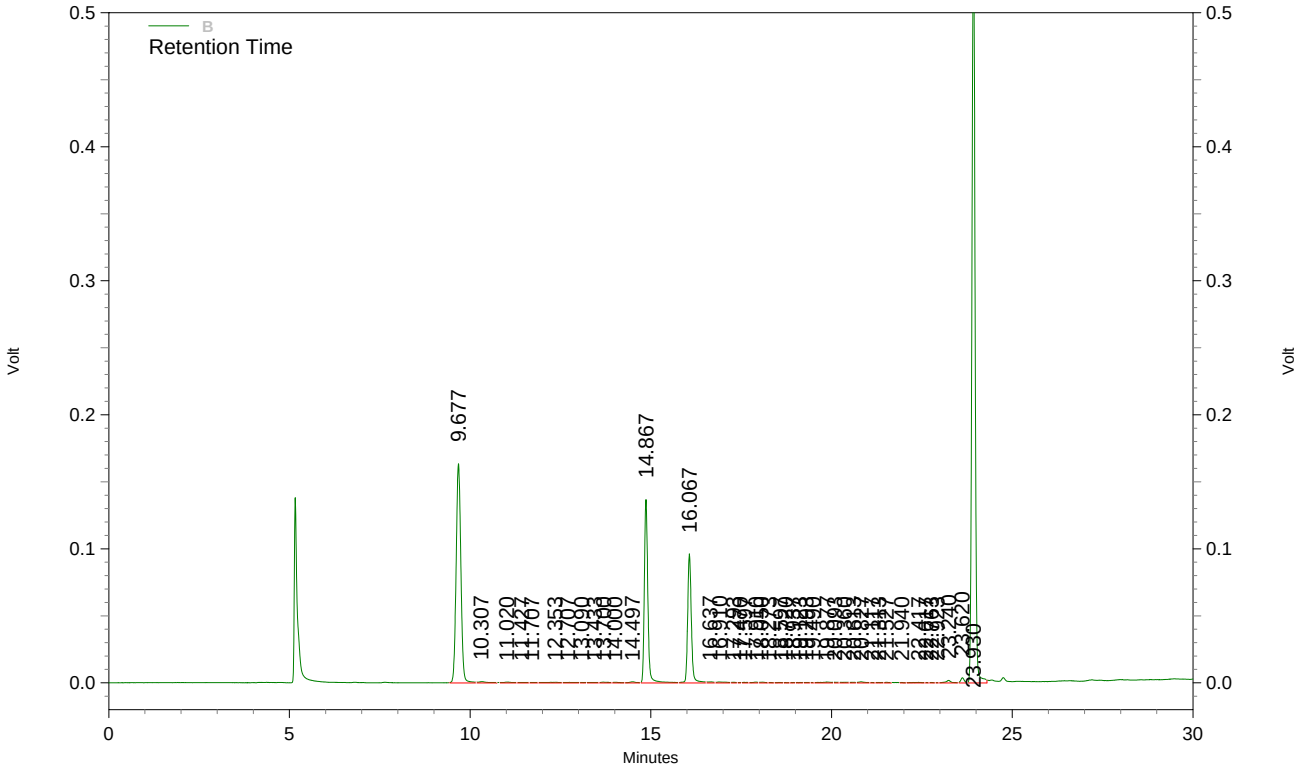
Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\020.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 22:32:36
Sample ID : 96941,CCB,1,pH<2
File Desc. : CONT. CALIB. BLANK
5.0 mL PURGED + ISTD/SSTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	787937	94.710	16.070
GRO	1664293	23.151	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\027.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 22, 2013 03:30:31
Sample ID : 96941,RTW,
File Desc. : RETENTION TIME WINDOW 8015
5.0 mL PURGED + ISTD/SSTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	679885	81.438	16.067
GRO	6070594	124.134	

QC Check Standard Report

Sequence : C:\Instarch\PVOC2\Sequences\082113-8015W.seq
User : BMS
Printed : Aug 23, 2013 07:45:46

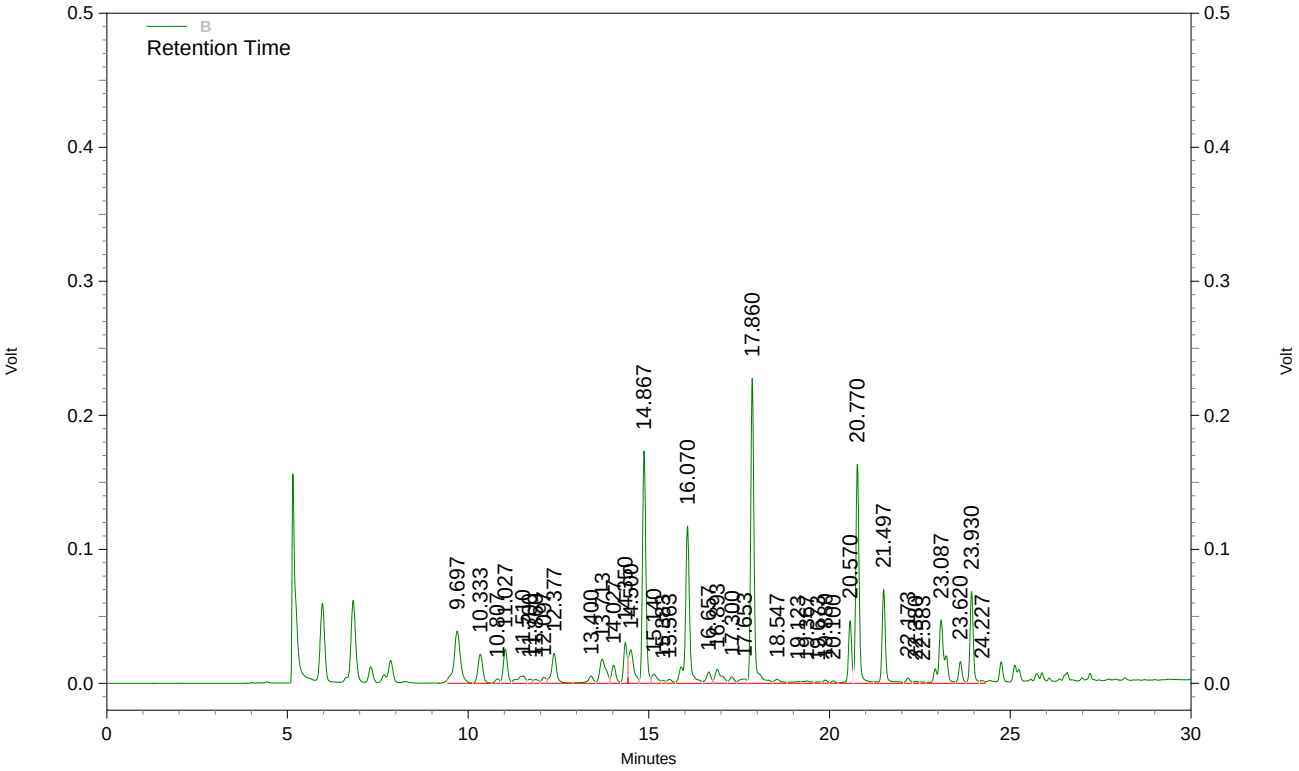
File	Sample ID	Acquired
C:\Instarch\PVOC2\Data\082113-8015w\028.dat	96941,CCV,	Aug 23, 2013 07:45:46

B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
S:aaaTFT	100.000	116.066	16.066	30.000	**Passed**
GRO	200.000	177.190	11.405	15.000	**Passed**

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\028.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 22, 2013 04:13:35
Sample ID : 96941,CCV,
File Desc. : GRO WATER CCV

GRO=200ug/l
20.0 uL OF 8015 CCV STD. INTO 100 mL DI WATER---5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	961802	116.066	16.070
GRO	8385643	177.190	

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1595510	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1113063	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	665138	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	369286	18.992	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 100		%	
45) SURR12DCAd4	7.12	102	100890	18.816	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 99		%	
61) SURRd8Tolule	9.45	98	1645723	18.193	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 96		%	
83) SURR4BrFBenz	13.04	95	659798	18.956	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 100		%	
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	318341	12.2628	ug/L	97
3) Chloromethan	1.92	50	319063	10.7390	ug/L	98
4) VinylChlorid	2.06	62	295067	11.3934	ug/L	98
5) Bromomethane	2.51	94	106366	13.3270	ug/L	99
6) Chloroethane	2.67	64	155820	11.1850	ug/L	97
7) Dichloroflmethane	3.00	67	448287	11.0437	ug/L	97
8) Trichlorofma	3.00	101	359740	11.9227	ug/L	98
9) Ethylether	3.45	59	186242	10.0479	ug/L	98
10) dichlorotfluoroethan	3.53	67	262056	10.9527	ug/L	99
11) propyleneoxide	3.54	58	447750	110.3853	ug/L	97
12) Acrolein	3.67	56	245323	49.5282	ug/L	97
13) 11dichlorthe	3.74	96	176769	11.3360	ug/L	96
14) Trichlorotfluoroeth	3.73	101	350051	23.8771	ug/L	93
15) Acetone	3.89	43	870246	84.6893	ug/L	99
16) Iodomethane	3.94	142	191833	13.1373	ug/L	97
17) Carbon Dislf	3.99	76	804435	24.6106	ug/L	99
18) allylchloride	4.26	41	693094	23.9631	ug/L	98
19) methylacetate	4.31	74	189012	10.4199	ug/L	96
20) Methylchlorid	4.45	84	210864	10.1218	ug/L	95
21) tbutylalcohol	4.67	59	1691501	592.8445	ug/L	96
22) Acrylonitrile	4.84	53	674778	53.9462	ug/L	95
23) t12dichlorte	4.76	96	227526	11.0996	ug/L	97
24) MtBE	4.76	73	570337	10.1917	ug/L	99
25) Hexane	5.06	57	994742	21.9960	ug/L	100
26) 11dichlorota	5.35	63	493388	11.0250	ug/L	97
27) Vinylacetate	5.41	43	4089446	109.2999	ug/L	99
28) chloroprene	5.43	53	1108774	23.3266	ug/L	97
29) Diisopether	5.39	45	930352	10.9735	ug/L	97
30) ETBE	5.84	59	734336	10.5300	ug/L	98
31) 22dichloropr	6.05	77	302743	11.0007	ug/L	99
32) c12dichlorte	6.09	96	248422	10.4879	ug/L	95
33) 2Butanone	6.12	72	355934	102.7480	ug/L	99
34) propionitrile	6.25	54	567765	113.5301	ug/L	98
35) Ethylacetate	6.17	88	48829	49.2696	ug/L #	94
36) methacrylonitrile	6.40	67	237548	19.9950	ug/L	99
37) Bromochlorma	6.39	128	89405	9.5344	ug/L #	92
38) Tetrahydofur	6.40	42	1164902	110.5252	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.49	83	395239	10.6208 ug/L	99
40)	111trichlota	6.67	97	349399	10.6957 ug/L	94
42)	Cyclohexane	6.67	56	561530	10.0619 ug/L	98
43)	Carbtetraclo	6.84	119	250556	9.3058 ug/L	96
44)	11dicloprope	6.87	110	110433	10.5294 ug/L	99
46)	Benzene	7.11	78	870974	10.8846 ug/L	97
47)	12dichlorota	7.21	62	375375	10.1066 ug/L	99
48)	TAME	7.24	73	476871	9.9272 ug/L	99
49)	trichloroete	7.93	95	246691	11.0353 ug/L	99
50)	methylcyclohexane	8.11	83	475741	10.8214 ug/L	98
51)	12dicloropra	8.25	63	270637	10.7730 ug/L	93
52)	23Dicl1propene	8.31	75	330981	10.4228 ug/L	96
53)	Dibromometha	8.40	93	134204	9.7140 ug/L	97
54)	methylmethacrylate	8.37	69	194598	10.4245 ug/L	90
55)	14dioxane	8.39	88	133513	649.7847 ug/L	97
56)	Bromodiclrma	8.59	83	250870	10.0682 ug/L	91
57)	2Nitropropane	8.93	43	805648	52.2400 ug/L	94
58)	2CLEVE	8.98	63	911355	57.7629 ug/L	99
59)	c13dicloproe	9.16	75	340601	10.9292 ug/L	100
60)	4Meth2Pentan	9.34	43	3216271	107.3979 ug/L	99
62)	Toluene	9.54	92	634705	10.8222 ug/L	96
63)	t13Dicloprop	9.91	75	266915	9.0820 ug/L	96
64)	ethylmethacrylate	9.96	69	634529	21.0417 ug/L	97
65)	112Triclotha	10.14	83	168140	10.4796 ug/L	94
66)	Tetrachlorte	10.24	166	248323	11.2571 ug/L	97
67)	13Diclorpropa	10.37	76	360529	10.7118 ug/L	98
69)	2Hexanone	10.43	43	2470936	109.2692 ug/L	98
70)	Clorodibrmta	10.63	129	178253	9.5410 ug/L	97
71)	12Dibrometha	10.78	107	195615	10.4103 ug/L	94
72)	Chlorobenzen	11.43	112	573363	10.6417 ug/L	98
73)	1Clhexane	11.39	91	349289	11.0273 ug/L	99
74)	1112Tetclota	11.55	131	189165	9.7526 ug/L	95
75)	Ethylbenzene	11.55	91	1132111	11.1331 ug/L	99
76)	m p-Xylene	11.72	106	791474	21.5178 ug/L	92
77)	o-Xylene	12.26	106	404881	11.0401 ug/L	94
78)	Styrene	12.29	104	630126	10.4988 ug/L	98
79)	Bromoform	12.57	173	116014	8.3617 ug/L	94
80)	Isopropylben	12.77	105	1000519	11.5364 ug/L	99
81)	cyclohexanone	12.96	55	277060	226.7620 ug/L	98
84)	Bromobenzene	13.24	156	250023	10.3638 ug/L	95
85)	1122Tetrclta	13.28	83	301084	9.9986 ug/L	90
86)	123Triclproa	13.34	75	329022	10.1020 ug/L	99
87)	14dichloro2butene	13.34	75	329022	10.1020 ug/L	99
88)	n-Propylbenz	13.35	91	1316366	11.3626 ug/L	99
89)	2chlorotolue	13.51	91	763874	11.0779 ug/L	98
90)	4chlorotolue	13.67	91	783263	10.7629 ug/L	99
91)	135Trimebenz	13.61	105	864254	11.2182 ug/L	99
92)	tbutylbenzen	14.06	119	709832	11.4403 ug/L	95
93)	124Trimetben	14.15	105	853618	11.4217 ug/L	99
94)	sbutylbenzen	14.38	105	1080498	11.6540 ug/L	96
95)	13Diclorbenz	14.59	146	418508	10.6912 ug/L	98
96)	pIsopropylto	14.60	119	871723	11.5552 ug/L	98
97)	14dichlorobe	14.73	146	443778	10.4338 ug/L	94
98)	12dichlorobe	15.27	146	399957	10.6727 ug/L	97
99)	nButylbenzen	15.20	91	877396	11.9657 ug/L	96
100)	12dibromo3cl	16.41	157	56591	9.0780 ug/L	91
101)	135Trichlorobenzene	16.66	180	335549	11.1857 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.51	180	281615	11.0132	ug/L	98
103) Hexachlorobu	17.69	225	159814	12.1377	ug/L	95
104) Naphthalene	17.82	128	794956	11.8131	ug/L	98
105) 123Trichlben	18.15	180	260988	10.7341	ug/L	89

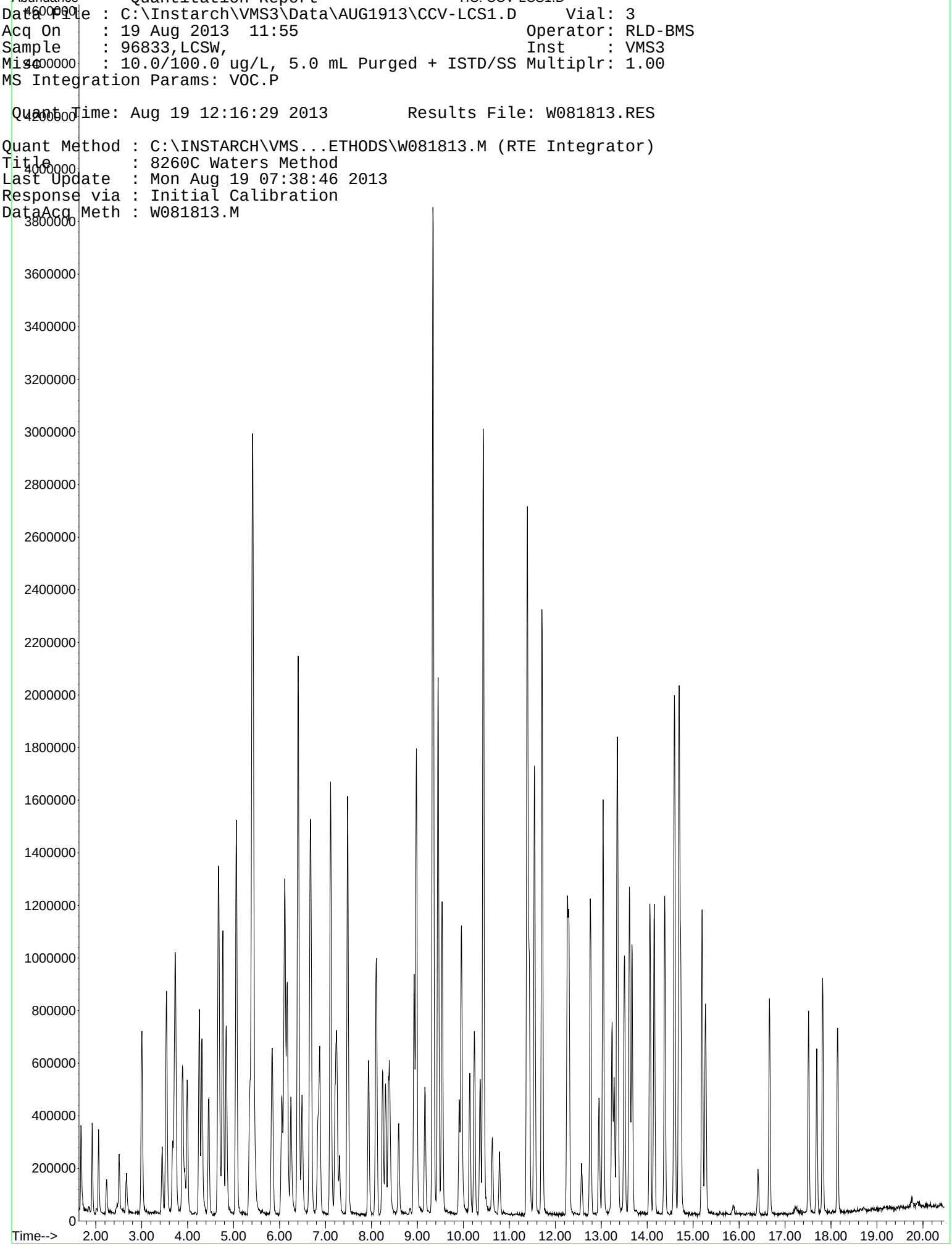
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCV-LCS1.D

Data File : C:\Instarch\VMS3\Data\AUG1913\CCV-LCS1.D Vial: 3
Acq On : 19 Aug 2013 11:55 Operator: RLD-BMS
Sample : 96833,LCSW, Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + ISTD/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:16:29 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\MB1.D Vial: 4
Acq On : 19 Aug 2013 12:25 Operator: RLD-BMS
Sample : 96833,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:45:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1466730	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1024487	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	583051	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	323752	18.112	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 95 %			
45) SURR12DCAd4	7.12	102	96509	19.579	ug/L	0.01
Spiked Amount 19.000	Range 89 - 112		Recovery = 103 %			
61) SURRd8Tolule	9.45	98	1463282	17.596	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 93 %			
83) SURR4BrFBenz	13.04	95	612632	20.079	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 106 %			

Target Compounds				Qvalue
2) Dichlorodi	1.70	85	1328	N.D.
3) Chloromethan	1.93	50	5550	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	2.52	94	1433	N.D.
6) Chloroethane	0.00	64	0	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	3.45	59	1794	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	0.00	56	0	N.D.
13) 11dichlorthe	0.00	96	0	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	3.90	43	22415	N.D.
16) Iodomethane	3.96	142	1712	N.D.
17) Carbon Dislf	4.00	76	10591	N.D.
18) allylchloride	4.21	41	1156	N.D.
19) methylacetate	0.00	74	0	N.D.
20) Methylchlorid	4.46	84	2285	N.D.
21) tbutylalcohol	4.69	59	3879	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	0.00	73	0	N.D.
25) Hexane	0.00	57	0	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	0.00	43	0	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	0.00	59	0	N.D.
31) 22dichloropr	0.00	77	0	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	6.40	42	1679	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\MB1.D Vial: 4
Acq On : 19 Aug 2013 12:25 Operator: RLD-BMS
Sample : 96833,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:45:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.67	56	1632	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	7.22	62	1299	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	8.41	88	1714	9.0742 ug/L #	1
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.36	43	1037	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.41	91	3332	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	12.93	55	1448	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.30	75	1283	N.D.	
87)	14dichloro2butene	13.30	75	1283	N.D.	
88)	n-Propylbenz	13.35	91	1203	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.17	105	1030	N.D.	
94)	sbutylbenzen	14.39	105	1167	N.D.	
95)	13Diclorbenz	14.59	146	1330	N.D.	
96)	pIsopropylto	14.60	119	1433	N.D.	
97)	14dichlorobe	14.75	146	1182	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.20	91	2165	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	16.66	180	1770	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\MB1.D Vial: 4
Acq On : 19 Aug 2013 12:25 Operator: RLD-BMS
Sample : 96833,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:45:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.52	180	1294	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	17.83	128	6243	N.D.	
105) 123Trichlben	18.15	180	2171	N.D.	

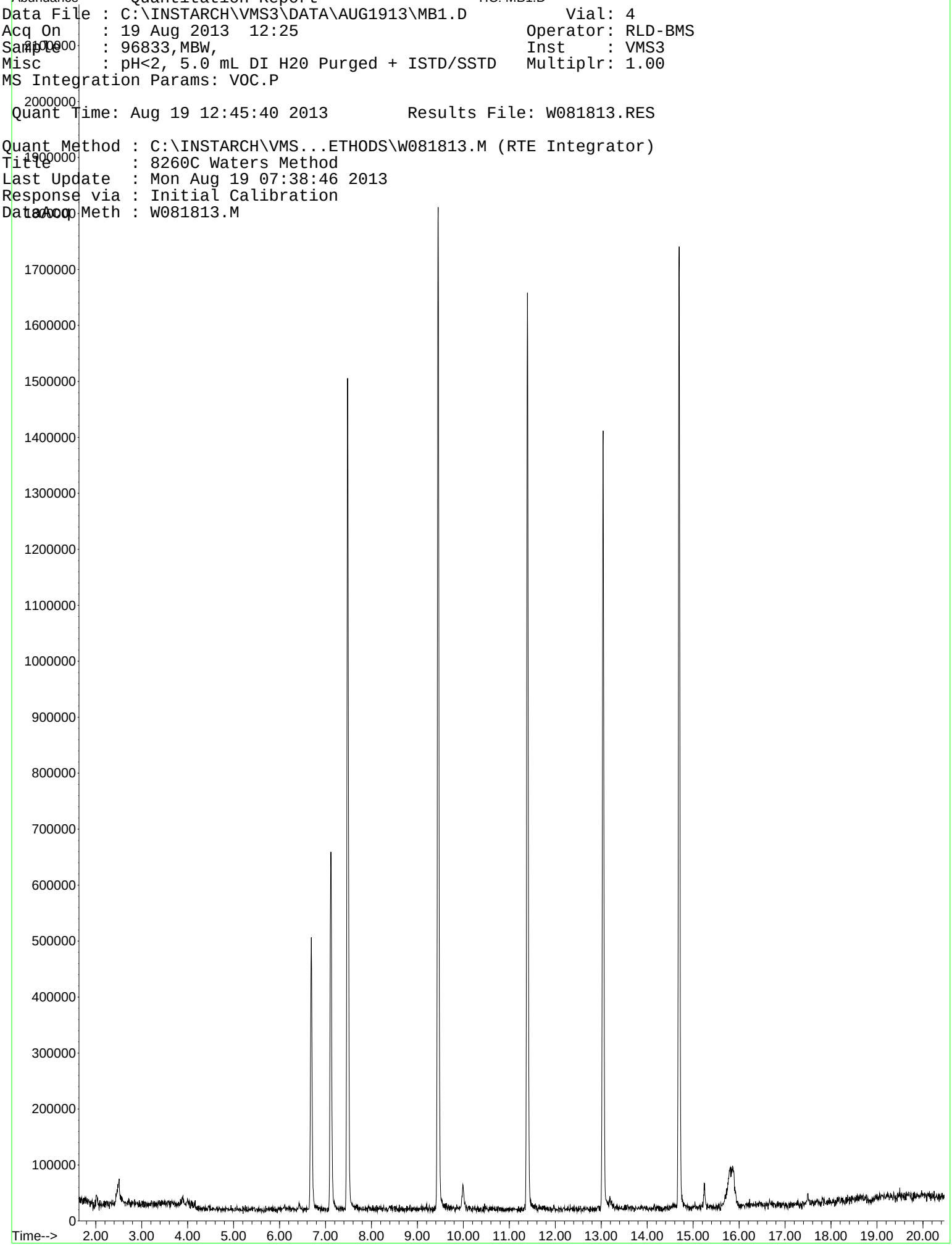
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: MB1.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\MB1.D Vial: 4
Acq On : 19 Aug 2013 12:25 Operator: RLD-BMS
Sample : 96833,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 12:45:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561MS.D Vial: 22
Acq On : 19 Aug 2013 21:16 Operator: RLD-BMS
Sample : 96835,MSW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 21:37:18 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.49	96	1398022	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	995357	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	575865	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	338996	19.897	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 105	%		
45) SURR12DCAd4	7.12	102	84208	17.923	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 94	%		
61) SURRd8Tolule	9.45	98	1454505	18.351	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 97	%		
83) SURR4BrFBenz	13.04	95	596170	19.784	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 104	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	300483	13.2100	ug/L	98
3) Chloromethan	1.92	50	292439	11.2333	ug/L	95
4) VinylChlorid	2.06	62	261047	11.5037	ug/L	97
5) Bromomethane	2.51	94	83350	11.9185	ug/L	92
6) Chloroethane	2.68	64	122969	10.0738	ug/L	96
7) Dichloroflmethane	3.00	67	384614	10.8136	ug/L	96
8) Trichlorofma	3.00	101	322614	12.2027	ug/L	99
9) Ethylether	3.45	59	167921	10.3449	ug/L	97
10) dichlorotfluoroethan	3.53	67	229171	10.9310	ug/L	98
11) propyleneoxide	3.44	58	1070	0.3011	ug/L #	1
12) Acrolein	3.67	56	201916	46.5233	ug/L	95
13) 11dichlorthe	3.74	96	145980	10.6840	ug/L	99
14) Trichlorotfluoroeth	3.72	101	289409	22.5293	ug/L	96
15) Acetone	3.89	43	621818	68.4179	ug/L	96
16) Iodomethane	3.94	142	194690	15.2459	ug/L	96
17) Carbon Dislf	3.99	76	648104	22.6288	ug/L	100
18) allylchloride	4.26	41	573851	22.6431	ug/L	99
19) methylacetate	4.31	74	146524	9.2187	ug/L	87
20) Methylchlorid	4.46	84	179640	9.8411	ug/L	92
21) tbutylalcohol	4.67	59	1112866	445.1403	ug/L	87
22) Acrylonitrile	4.84	53	496807	45.3287	ug/L	95
23) t12dichlorte	4.77	96	186098	10.3610	ug/L	97
24) MtBE	4.76	73	441510	9.0041	ug/L	98
25) Hexane	5.06	57	826912	20.8171	ug/L	97
26) 11dichlorota	5.35	63	398147	10.1535	ug/L	95
27) Vinylacetate	5.41	43	3153662	94.4589	ug/L	99
28) chloroprene	5.43	53	942883	22.6387	ug/L	97
29) Diisopether	5.39	45	749046	10.0831	ug/L	99
30) ETBE	5.84	59	551444	9.0245	ug/L	99
31) 22dichloropr	6.05	77	233461	9.6815	ug/L	99
32) c12dichlorte	6.10	96	206759	9.9621	ug/L	97
33) 2Butanone	6.12	72	267758	88.2129	ug/L	100
34) propionitrile	6.25	54	426722	97.3807	ug/L	97
35) Ethylacetate	6.17	88	38875	44.8700	ug/L #	85
36) methacrylonitrile	6.40	67	190994	18.3475	ug/L	97
37) Bromochlorma	6.39	128	79095	9.6264	ug/L #	87
38) Tetrahydofur	6.41	42	905352	98.0336	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561MS.D Vial: 22
Acq On : 19 Aug 2013 21:16 Operator: RLD-BMS
Sample : 96835,MSW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 21:37:18 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.49	83	332123	10.1855	ug/L	100
40)	111trichlota	6.67	97	313031	10.9361	ug/L	99
42)	Cyclohexane	6.67	56	483660	9.8868	ug/L	97
43)	Carbtetraclo	6.84	119	227701	9.6523	ug/L	97
44)	11dicloprope	6.88	110	93209	10.1425	ug/L	98
46)	Benzene	7.11	78	741916	10.5815	ug/L	97
47)	12dichlorota	7.21	62	323238	9.9323	ug/L	99
48)	TAME	7.24	73	358892	8.5266	ug/L	96
49)	trichloroete	7.93	95	204296	10.4298	ug/L	97
50)	methylcyclohexane	8.11	83	384265	9.9600	ug/L	97
51)	12dicloropra	8.24	63	209526	9.5186	ug/L	99
52)	23Dicl1propene	8.31	75	282817	10.1642	ug/L	99
53)	Dibromometha	8.40	93	111386	9.2012	ug/L	94
54)	methylmethacrylate	8.37	69	152247	9.3173	ug/L	89
55)	14dioxane	8.39	88	73447	407.9487	ug/L	95
56)	Bromodiclrma	8.59	83	222803	10.2050	ug/L	98
57)	2Nitropropane	8.93	43	641799	47.4169	ug/L	97
58)	2CLEVE	8.99	63	1363	N.D.		
59)	c13dicloproe	9.17	75	262069	9.5972	ug/L	96
60)	4Meth2Pentan	9.34	43	2594636	97.8415	ug/L	98
62)	Toluene	9.54	92	533087	10.3736	ug/L	99
63)	t13Dicloprop	9.91	75	206757	8.0329	ug/L	98
64)	ethylmethacrylate	9.96	69	535535	20.2676	ug/L	96
65)	112Triclotha	10.15	83	137296	9.7660	ug/L	96
66)	Tetrachlorte	10.24	166	216381	11.1948	ug/L	97
67)	13Diclorpropa	10.37	76	292807	9.9287	ug/L	100
69)	2Hexanone	10.43	43	1956874	96.7698	ug/L	99
70)	Clorodibrmta	10.63	129	142290	8.5333	ug/L	91
71)	12Dibrometha	10.78	107	160738	9.5658	ug/L	92
72)	Chlorobenzen	11.44	112	487057	10.1088	ug/L	96
73)	1Clhexane	11.39	91	312061	11.0170	ug/L	96
74)	1112Tetclota	11.56	131	143901	8.3038	ug/L	91
75)	Ethylbenzene	11.55	91	981562	10.7941	ug/L	99
76)	m p-Xylene	11.71	106	697354	21.2010	ug/L	98
77)	o-Xylene	12.26	106	297112	9.0595	ug/L	91
78)	Styrene	12.30	104	521491	9.7163	ug/L	97
79)	Bromoform	12.58	173	95598	7.7117	ug/L	97
80)	Isopropylben	12.77	105	857169	11.0523	ug/L	98
81)	cyclohexanone	12.95	55	166712	152.5823	ug/L	98
84)	Bromobenzene	13.24	156	197300	9.4268	ug/L	96
85)	1122Tetrclta	13.28	83	249906	9.5856	ug/L	92
86)	123Triclproa	13.34	75	259087	9.1879	ug/L	97
87)	14dichloro2butene	13.34	75	259087	9.1879	ug/L	97
88)	n-Propylbenz	13.35	91	1069108	10.6590	ug/L	99
89)	2chlorotolue	13.51	91	639773	10.7165	ug/L	97
90)	4chlorotolue	13.67	91	620403	9.8466	ug/L	99
91)	135Trimebenz	13.61	105	753044	11.2900	ug/L	100
92)	tbutylbenzen	14.06	119	585360	10.8967	ug/L	95
93)	124Trimetben	14.16	105	711363	10.9938	ug/L	98
94)	sbutylbenzen	14.39	105	898734	11.1962	ug/L	99
95)	13Diclorbenz	14.59	146	338715	9.9942	ug/L	97
96)	pIsopropylto	14.60	119	731261	11.1960	ug/L	98
97)	14dichlorobe	14.73	146	369595	10.0368	ug/L	95
98)	12dichlorobe	15.27	146	320246	9.8704	ug/L	95
99)	nButylbenzen	15.20	91	725427	11.4269	ug/L	97
100)	12dibromo3cl	16.41	157	41116	7.6041	ug/L	87
101)	135Trichlorobenzene	16.67	180	301443	11.6066	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561MS.D Vial: 22
Acq On : 19 Aug 2013 21:16 Operator: RLD-BMS
Sample : 96835,MSW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 21:37:18 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.52	180	231006	10.4345 ug/L	95
103) Hexachlorobu	17.69	225	124414	10.9140 ug/L	94
104) Naphthalene	17.82	128	640908	11.0004 ug/L	99
105) 123Trichlben	18.15	180	227053	10.7861 ug/L	98

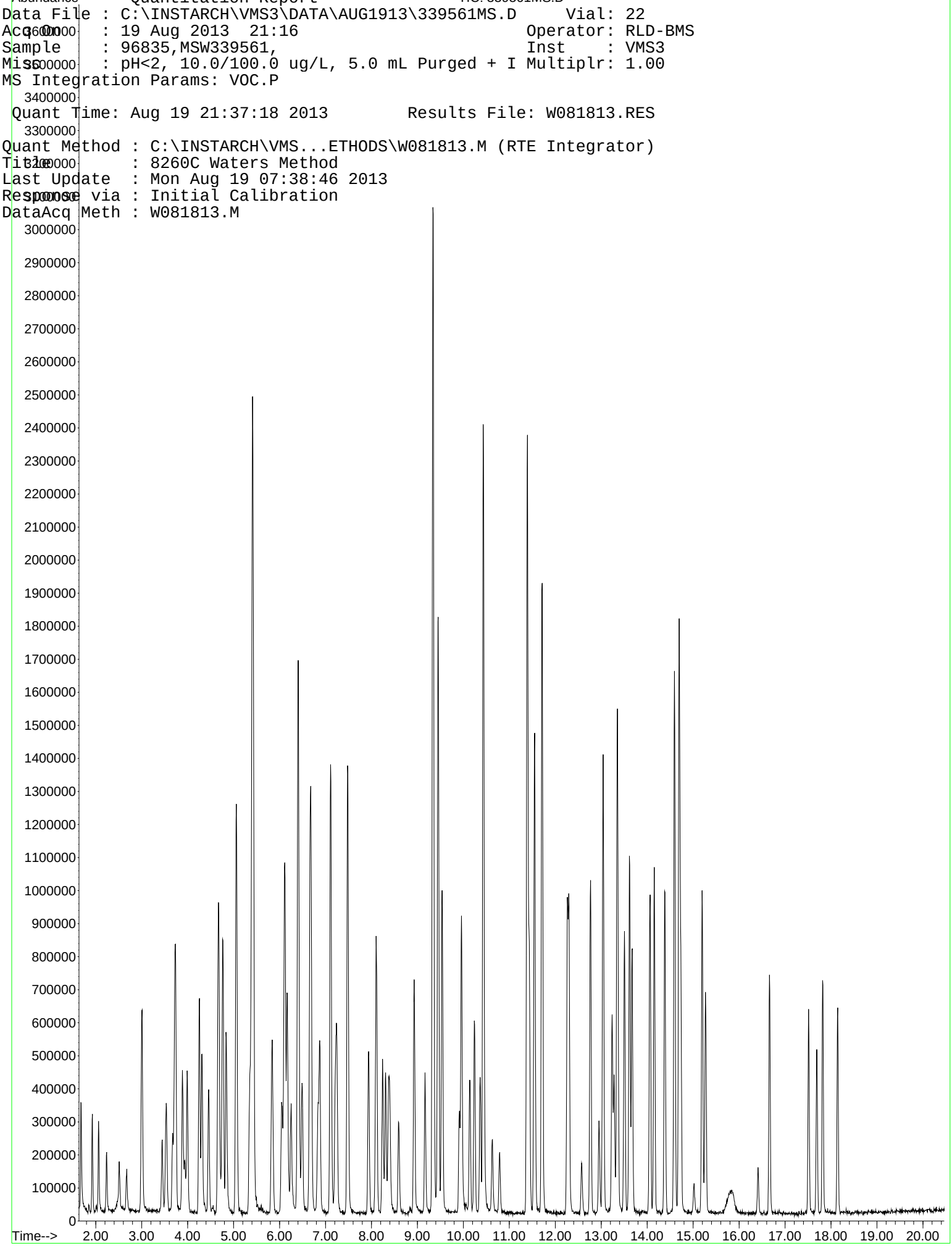
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 339561MS.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561MS.D Vial: 22
Acq On : 19 Aug 2013 21:16 Operator: RLD-BMS
Sample : 96835,MSW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 21:37:18 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561SD.D Vial: 23
Acq On : 19 Aug 2013 21:46 Operator: RLD-BMS
Sample : 96835,MSDW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 22:06:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1417442	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	981861	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	576553	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	336222	19.464	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.12	102	91077	19.120	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 101	%		
61) SURRd8Tolule	9.45	98	1485909	18.490	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 97	%		
83) SURR4BrFBenz	13.04	95	581913	19.287	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 102	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	304408	13.1992	ug/L	100
3) Chloromethan	1.93	50	278486	10.5508	ug/L	100
4) VinylChlorid	2.07	62	271350	11.7939	ug/L	98
5) Bromomethane	2.51	94	79909	11.2699	ug/L	98
6) Chloroethane	2.67	64	131558	10.6298	ug/L	92
7) Dichloroflmethane	3.00	67	400458	11.1048	ug/L	96
8) Trichlorofma	3.00	101	331900	12.3819	ug/L	98
9) Ethylether	3.44	59	153352	9.3000	ug/L	95
10) dichlorotfluoroethan	3.53	67	221975	10.4342	ug/L	97
11) propyleneoxide	3.44	58	2324	0.6449	ug/L #	1
12) Acrolein	3.67	56	219725	49.9331	ug/L	98
13) 11dichlorthe	3.74	96	160408	11.5791	ug/L	99
14) Trichlorotfluoroeth	3.72	101	314145	24.1198	ug/L	95
15) Acetone	3.89	43	667994	72.6685	ug/L	100
16) Iodomethane	3.94	142	207240	16.0177	ug/L	96
17) Carbon Dislf	3.99	76	622615	21.4410	ug/L	100
18) allylchloride	4.26	41	586570	22.8278	ug/L	99
19) methylacetate	4.31	74	140132	8.6957	ug/L	98
20) Methylchlorid	4.46	84	173198	9.3582	ug/L	97
21) tbutylalcohol	4.68	59	1211605	477.9955	ug/L	86
22) Acrylonitrile	4.84	53	540821	48.6685	ug/L	98
23) t12dichlorte	4.77	96	189428	10.4019	ug/L	99
24) MtBE	4.76	73	481222	9.6795	ug/L	95
25) Hexane	5.06	57	851842	21.1662	ug/L	100
26) 11dichlorota	5.35	63	411000	10.3377	ug/L	98
27) Vinylacetate	5.41	43	3239231	95.8555	ug/L	100
28) chloroprene	5.43	53	971912	23.0160	ug/L	99
29) Diisopether	5.38	45	775502	10.2962	ug/L	97
30) ETBE	5.84	59	561342	9.0606	ug/L	98
31) 22dichloropr	6.05	77	249583	10.2083	ug/L	97
32) c12dichlorte	6.10	96	215035	10.2189	ug/L	97
33) 2Butanone	6.12	72	287874	93.5407	ug/L	97
34) propionitrile	6.25	54	440769	99.2082	ug/L	99
35) Ethylacetate	6.17	88	34059	38.8942	ug/L #	80
36) methacrylonitrile	6.41	67	207832	19.6914	ug/L	94
37) Bromochlorma	6.39	128	78307	9.4000	ug/L	95
38) Tetrahydofur	6.41	42	959792	102.5046	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561SD.D Vial: 23
Acq On : 19 Aug 2013 21:46 Operator: RLD-BMS
Sample : 96835,MSDW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 22:06:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.50	83	342980	10.3744	ug/L	95
40)	111trichlota	6.66	97	328366	11.3147	ug/L	98
42)	Cyclohexane	6.67	56	507324	10.2368	ug/L	97
43)	Carbtetraclo	6.84	119	232172	9.7070	ug/L	97
44)	11dicloprope	6.88	110	95819	10.2837	ug/L	92
46)	Benzene	7.11	78	768457	10.8099	ug/L	98
47)	12dichlorota	7.21	62	345479	10.4702	ug/L	99
48)	TAME	7.24	73	368979	8.6461	ug/L	99
49)	trichloroete	7.94	95	206556	10.4007	ug/L	93
50)	methylcyclohexane	8.11	83	411985	10.5432	ug/L	94
51)	12dicloropra	8.24	63	213478	9.5653	ug/L	90
52)	23Dicl1propene	8.31	75	275641	9.7706	ug/L	95
53)	Dibromometha	8.39	93	118186	9.6292	ug/L	96
54)	methylmethacrylate	8.37	69	158960	9.5924	ug/L	94
55)	14dioxane	8.39	88	91682	502.2550	ug/L	95
56)	Bromodiclrma	8.59	83	232464	10.5016	ug/L	97
57)	2Nitropropane	8.93	43	691860	50.4672	ug/L	99
58)	2CLEVE	9.00	63	1883	N.D.		
59)	c13dicloproe	9.17	75	265209	9.5791	ug/L	98
60)	4Meth2Pentan	9.34	43	2678543	99.8409	ug/L	98
62)	Toluene	9.54	92	544040	10.4417	ug/L	99
63)	t13Dicloprop	9.91	75	215336	8.2507	ug/L	95
64)	ethylmethacrylate	9.96	69	540856	20.1885	ug/L	96
65)	112Triclotha	10.14	83	148037	10.3857	ug/L	92
66)	Tetrachlorte	10.24	166	226992	11.5829	ug/L	98
67)	13Diclorpropa	10.36	76	300320	10.0439	ug/L	94
69)	2Hexanone	10.43	43	2086821	104.6143	ug/L	98
70)	Clorodibrmta	10.63	129	147595	8.9656	ug/L	95
71)	12Dibrometha	10.78	107	163964	9.8919	ug/L	97
72)	Chlorobenzen	11.44	112	497996	10.4779	ug/L	95
73)	1Clhexane	11.39	91	317134	11.3500	ug/L	99
74)	1112Tetclota	11.56	131	152956	8.9441	ug/L	98
75)	Ethylbenzene	11.55	91	1007025	11.2263	ug/L	99
76)	m p-Xylene	11.72	106	693579	21.3761	ug/L	99
77)	o-Xylene	12.26	106	339088	10.4816	ug/L	94
78)	Styrene	12.30	104	550796	10.4033	ug/L	100
79)	Bromoform	12.57	173	103452	8.4517	ug/L	98
80)	Isopropylben	12.77	105	875756	11.4472	ug/L	98
81)	cyclohexanone	12.95	55	194866	180.8016	ug/L	99
84)	Bromobenzene	13.24	156	209850	10.0276	ug/L	98
85)	1122Tetrclta	13.28	83	260945	9.9971	ug/L	90
86)	123Triclproa	13.35	75	265899	9.4182	ug/L	96
87)	14dichloro2butene	13.35	75	265899	9.4182	ug/L	97
88)	n-Propylbenz	13.35	91	1106902	11.0226	ug/L	100
89)	2chlorotolue	13.50	91	650144	10.8773	ug/L	100
90)	4chlorotolue	13.67	91	647015	10.2568	ug/L	96
91)	135Trimebenz	13.61	105	759122	11.3675	ug/L	99
92)	tbutylbenzen	14.06	119	608722	11.3181	ug/L	97
93)	124Trimetben	14.15	105	729213	11.2563	ug/L	100
94)	sbutylbenzen	14.39	105	912405	11.3530	ug/L	100
95)	13Diclorbenz	14.59	146	364687	10.7477	ug/L	97
96)	pIsopropylto	14.60	119	739863	11.3142	ug/L	98
97)	14dichlorobe	14.73	146	366291	9.9352	ug/L	93
98)	12dichlorobe	15.27	146	340406	10.4793	ug/L	97
99)	nButylbenzen	15.20	91	778883	12.2543	ug/L	97
100)	12dibromo3cl	16.42	157	43313	8.0048	ug/L	83
101)	135Trichlorobenzene	16.66	180	300513	11.5570	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561SD.D Vial: 23
Acq On : 19 Aug 2013 21:46 Operator: RLD-BMS
Sample : 96835,MSDW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 22:06:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.51	180	240425	10.8470	ug/L	97
103)	Hexachlorobu	17.70	225	140199	12.2840	ug/L	94
104)	Naphthalene	17.82	128	662957	11.3653	ug/L	99
105)	123Trichlben	18.15	180	232308	11.0226	ug/L	97

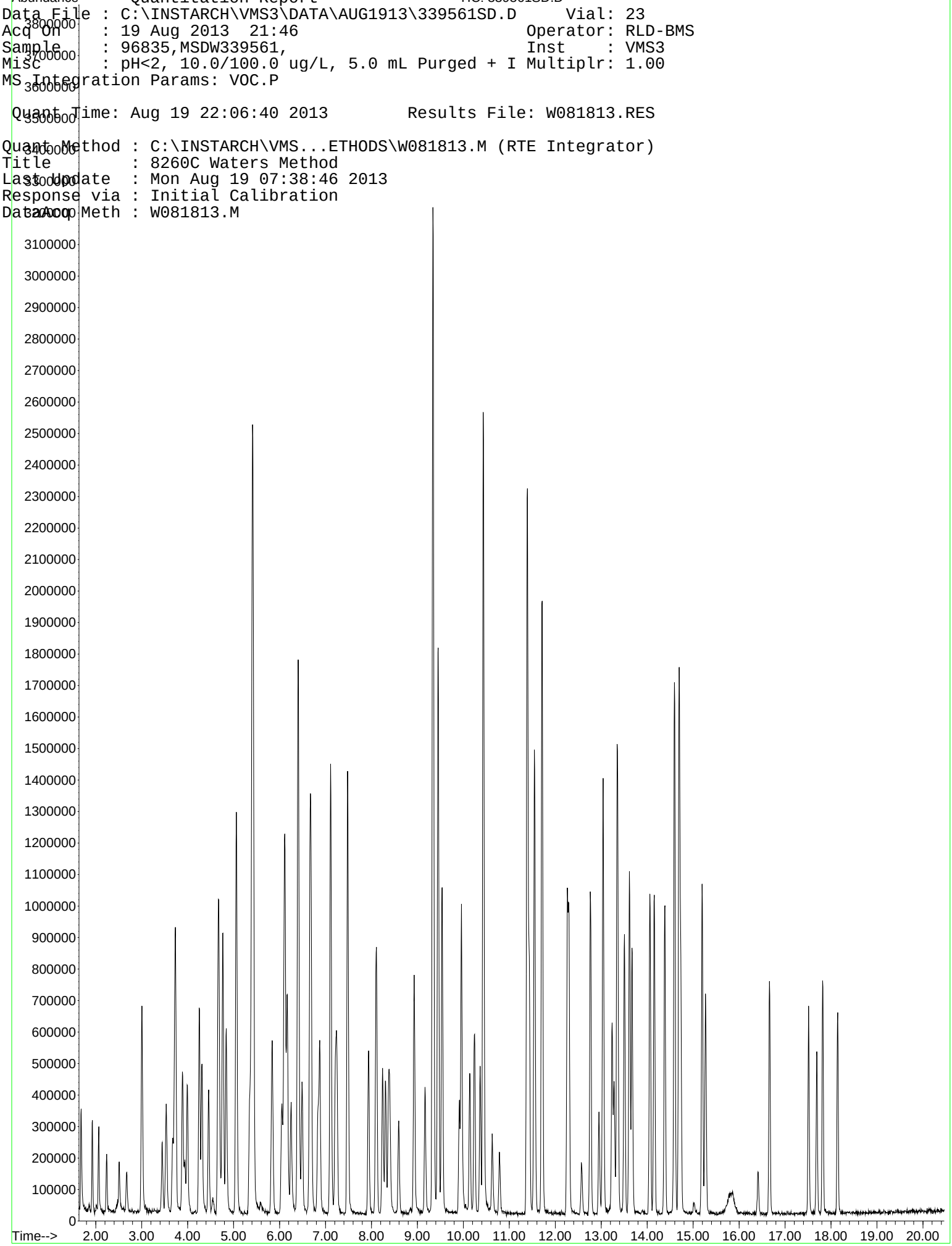
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 339561SD.D

Data File : C:\INSTARCH\VMS3\DATA\AUG1913\339561SD.D Vial: 23
Acq On : 19 Aug 2013 21:46 Operator: RLD-BMS
Sample : 96835,MSDW339561, Inst : VMS3
Misc : pH<2, 10.0/100.0 ug/L, 5.0 mL Purged + I Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 19 22:06:40 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TLCS1.D Vial: 3
Acq On : 23 Aug 2013 15:40 Operator: RLD-BMS
Sample : 97040,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:00:39 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1495312	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1035727	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	634594	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	337879	18.541	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 98	%		
45) SURR12DCAd4	7.12	102	95751	19.054	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 100	%		
61) SURRd8Tolule	9.45	98	1554807	18.340	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 97	%		
83) SURR4BrFBenz	13.04	95	604498	18.203	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 96	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	302595	12.4374	ug/L	99
3) Chloromethan	1.92	50	206548	7.4178	ug/L	99
4) VinylChlorid	2.06	62	244102	10.0571	ug/L	100
5) Bromomethane	2.51	94	19332	2.5845	ug/L	92
6) Chloroethane	2.67	64	138575	10.6136	ug/L	94
7) Dichloroflmethane	3.01	67	413141	10.8599	ug/L	98
8) Trichlorofma	3.00	101	324013	11.4582	ug/L	99
9) Ethylether	3.44	59	189824	10.9454	ug/L	93
10) dichlorotfluoroethan	3.53	67	237701	10.5943	ug/L	98
11) propyleneoxide	3.54	58	408078	107.3461	ug/L	98
12) Acrolein	3.67	56	207483	44.6956	ug/L	99
13) 11dichlorthe	3.73	96	148098	10.1338	ug/L #	88
14) Trichlorotfluoroeth	3.72	101	301080	21.9129	ug/L	98
15) Acetone	3.89	43	787098	81.5838	ug/L	100
16) Iodomethane	3.93	142	106544	7.7470	ug/L	95
17) Carbon Dislf	3.99	76	701606	22.9030	ug/L	100
18) allylchloride	4.26	41	608980	22.4658	ug/L	97
19) methylacetate	4.31	74	173052	10.1793	ug/L	88
20) Methylchlorid	4.45	84	200658	10.2773	ug/L	94
21) tbutylalcohol	4.67	59	1261693	471.8348	ug/L	92
22) Acrylonitrile	4.84	53	580545	49.5226	ug/L	98
23) t12dichlorte	4.77	96	199094	10.3634	ug/L	97
24) MtBE	4.76	73	515649	9.8319	ug/L	98
25) Hexane	5.06	57	828317	19.4406	ug/L	98
26) 11dichlorota	5.35	63	432551	10.3132	ug/L	99
27) Vinylacetate	5.41	43	3861359	110.2488	ug/L	100
28) chloroprene	5.43	53	979121	21.9792	ug/L	98
29) Diisopether	5.39	45	834848	10.5069	ug/L	99
30) ETBE	5.84	59	643109	9.8398	ug/L	99
31) 22dichloropr	6.04	77	257294	9.9757	ug/L	97
32) c12dichlorte	6.10	96	221271	9.9676	ug/L	94
33) 2Butanone	6.11	72	293409	90.3744	ug/L	97
34) propionitrile	6.25	54	480884	102.6007	ug/L	98
35) Ethylacetate	6.17	88	42359	45.6906	ug/L #	89
36) methacrylonitrile	6.40	67	227929	20.4710	ug/L #	86
37) Bromochlorma	6.39	128	88033	10.0171	ug/L	94
38) Tetrahydofur	6.40	42	1014163	102.6709	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TLCS1.D Vial: 3
Acq On : 23 Aug 2013 15:40 Operator: RLD-BMS
Sample : 97040,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:00:39 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.49	83	361781	10.3732 ug/L	98
40)	111trichlota	6.66	97	326850	10.6759 ug/L	99
42)	Cyclohexane	6.67	56	511809	9.7791 ug/L	99
43)	Carbtetraclo	6.83	119	223554	8.8585 ug/L	98
44)	11dicloprope	6.87	110	100484	10.2227 ug/L	98
46)	Benzene	7.11	78	805501	10.7409 ug/L	98
47)	12dichlorota	7.21	62	350162	10.0595 ug/L	99
48)	TAME	7.24	73	416324	9.2475 ug/L	93
49)	trichloroete	7.93	95	211110	10.0765 ug/L	96
50)	methylcyclohexane	8.10	83	393712	9.5336 ug/L	98
51)	12dicloropra	8.24	63	242397	10.2954 ug/L	95
52)	23Dicl1propene	8.31	75	306607	10.3022 ug/L	95
53)	Dibromometha	8.39	93	127743	9.8659 ug/L	96
54)	methylmethacrylate	8.36	69	167187	9.5637 ug/L	94
55)	14dioxane	8.39	88	77626	403.1075 ug/L	91
56)	Bromodiclrma	8.59	83	246145	10.5406 ug/L	94
57)	2Nitropropane	8.93	43	835432	57.9125 ug/L	95
58)	2CLEVE	8.97	63	823625	55.7005 ug/L	99
59)	c13dicloproe	9.17	75	301721	10.3304 ug/L	97
60)	4Meth2Pentan	9.34	43	2897459	102.6998 ug/L	99
62)	Toluene	9.53	92	572957	10.4240 ug/L	98
63)	t13Dicloprop	9.90	75	238177	8.6490 ug/L	98
64)	ethylmethacrylate	9.96	69	622734	22.0343 ug/L	96
65)	112Triclotha	10.14	83	151363	10.0661 ug/L	98
66)	Tetrachlorte	10.24	166	226287	10.9456 ug/L	99
67)	13Diclorpropa	10.37	76	332645	10.5456 ug/L	100
69)	2Hexanone	10.43	43	2189437	104.0502 ug/L	100
70)	Clorodibrmta	10.63	129	161283	9.2819 ug/L	96
71)	12Dibrometha	10.78	107	174643	9.9882 ug/L	93
72)	Chlorobenzen	11.43	112	502406	10.0210 ug/L	96
73)	1Clhexane	11.38	91	308390	10.4630 ug/L	97
74)	1112Tetclota	11.55	131	162061	8.9834 ug/L	96
75)	Ethylbenzene	11.55	91	1050550	11.1024 ug/L	99
76)	m p-Xylene	11.71	106	720267	21.0441 ug/L	98
77)	o-Xylene	12.26	106	354585	10.3906 ug/L	93
78)	Styrene	12.29	104	577585	10.3419 ug/L	99
79)	Bromoform	12.57	173	106843	8.2767 ug/L	93
80)	Isopropylben	12.76	105	903961	11.2013 ug/L	96
81)	cyclohexanone	12.95	55	201141	176.9178 ug/L	97
84)	Bromobenzene	13.24	156	224672	9.7480 ug/L	95
85)	1122Tetrclta	13.28	83	274879	9.5677 ug/L	91
86)	123Triclproa	13.35	75	278536	8.9635 ug/L	93
87)	14dichloro2butene	13.35	75	278536	8.9635 ug/L	99
88)	n-Propylbenz	13.35	91	1161345	10.5070 ug/L	99
89)	2chlorotolue	13.50	91	692136	10.5207 ug/L	99
90)	4chlorotolue	13.67	91	726093	10.4576 ug/L	98
91)	135Trimebenz	13.61	105	796856	10.8412 ug/L	99
92)	tbutylbenzen	14.06	119	616010	10.4061 ug/L	98
93)	124Trimetben	14.15	105	771386	10.8182 ug/L	100
94)	sbutylbenzen	14.38	105	935108	10.5713 ug/L	99
95)	13Diclorbenz	14.59	146	379180	10.1528 ug/L	98
96)	pIsopropylto	14.59	119	762831	10.5985 ug/L	98
97)	14dichlorobe	14.73	146	426911	10.5204 ug/L	97
98)	12dichlorobe	15.27	146	365707	10.2284 ug/L	95
99)	nButylbenzen	15.20	91	782676	11.1877 ug/L	95
100)	12dibromo3cl	16.41	157	49868	8.3772 ug/L	94
101)	135Trichlorobenzene	16.66	180	312772	10.9283 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TLCS1.D Vial: 3
Acq On : 23 Aug 2013 15:40 Operator: RLD-BMS
Sample : 97040,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:00:39 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.51	180	267465	10.9633 ug/L	99
103) Hexachlorobu	17.69	225	131935	10.5027 ug/L	98
104) Naphthalene	17.82	128	723680	11.2716 ug/L	98
105) 123Trichlben	18.15	180	246520	10.6271 ug/L	99

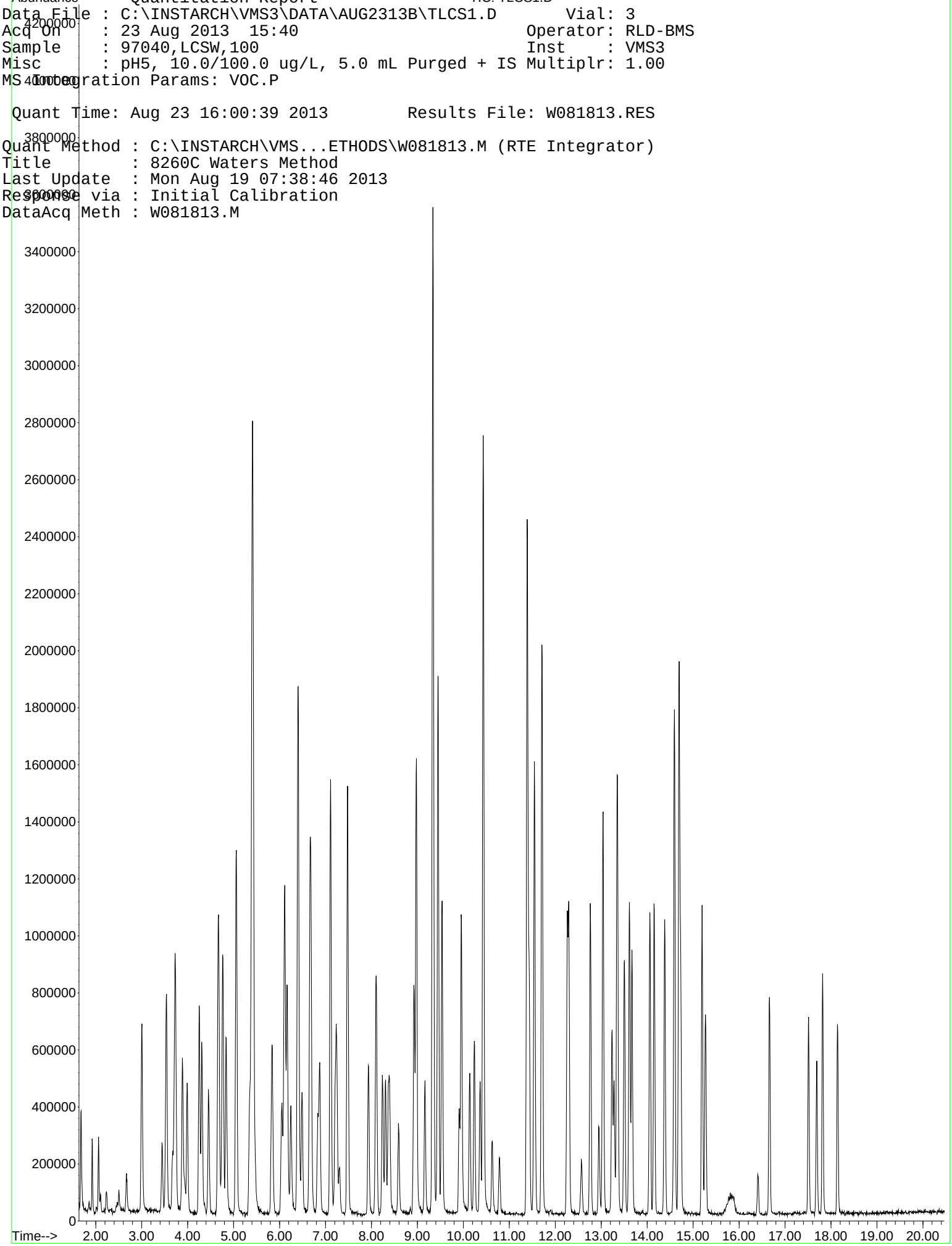
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: TLCS1.D

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TLCS1.D Vial: 3
Acq On : 23 Aug 2013 15:40 Operator: RLD-BMS
Sample : 97040,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:00:39 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL1.D Vial: 4
Acq On : 23 Aug 2013 16:09 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.5/5.0 ug/L, 5.0 mL Purged + ISTD/ Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:01 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1406370	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	984753	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	564636	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	314956	18.376	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 97 %			
45) SURR12DCAd4	7.11	102	85378	18.064	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 95 %			
61) SURRd8Tolule	9.45	98	1416434	17.764	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 93 %			
83) SURR4BrFBenz	13.04	95	563473	19.070	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.67	85	13537	0.5916	ug/L	99
3) Chloromethan	1.92	50	9881	0.3773	ug/L	77
4) VinylChlorid	2.06	62	10386	0.4550	ug/L	91
5) Bromomethane	2.50	94	1484	0.2109	ug/L #	75
6) Chloroethane	2.68	64	11329	0.9226	ug/L	74
7) Dichloroflmethane	3.00	67	20368	0.5693	ug/L	97
8) Trichlorofma	3.00	101	13413	0.5043	ug/L #	78
9) Ethylether	3.45	59	12229	0.7359	ug/L #	76
10) dichlorotfluoroethan	3.54	67	11472	0.5348	ug/L	94
11) propyleneoxide	3.54	58	22813	6.3805	ug/L	88
12) Acrolein	3.67	56	12072	2.7650	ug/L	87
13) 11dichlorthe	3.73	96	8137	0.5920	ug/L #	87
14) Trichlorotfluoroeth	3.73	101	12757	0.9872	ug/L #	82
15) Acetone	3.89	43	81529	8.6220	ug/L	98
16) Iodomethane	3.93	142	4318	0.3316	ug/L #	80
17) Carbon Dislf	3.99	76	36757	1.2758	ug/L	99
18) allylchloride	4.24	41	27432	1.0760	ug/L	93
19) methylacetate	4.32	74	8810	0.5510	ug/L #	72
20) Methylchlorid	4.46	84	19791	1.0778	ug/L	89
21) tbutylalcohol	4.68	59	67704	26.9205	ug/L	88
22) Acrylonitrile	4.84	53	33092	3.0014	ug/L	99
23) t12dichlorte	4.77	96	8460	0.4682	ug/L #	66
24) MtBE	4.77	73	27377	0.5550	ug/L	87
25) Hexane	5.06	57	41403	0.9954	ug/L #	85
26) 11dichlorota	5.35	63	19953	0.5058	ug/L	86
27) Vinylacetate	5.41	43	204728	5.5004	ug/L	93
28) chloroprene	5.44	53	47558	1.1351	ug/L	97
29) Diisopether	5.39	45	44098	0.5901	ug/L	79
30) ETBE	5.84	59	31655	0.5150	ug/L	98
31) 22dichloropr	6.04	77	10981	0.4527	ug/L #	66
32) c12dichlorte	6.09	96	10861	0.5202	ug/L #	77
33) 2Butanone	6.12	72	15223	4.9854	ug/L	86
34) propionitrile	6.25	54	17381	3.9429	ug/L #	72
35) Ethylacetate	6.17	88	2306	2.7055	ug/L #	63
36) methacrylonitrile	6.40	67	4747	0.4533	ug/L #	1
37) Bromochlorma	6.40	128	4295	0.5196	ug/L #	74
38) Tetrahydofur	6.41	42	54363	5.8516	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL1.D Vial: 4
Acq On : 23 Aug 2013 16:09 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.5/5.0 ug/L, 5.0 mL Purged + ISTD/ Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:01 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.49	83	15664	0.4775	ug/L		81
40)	111trichlota	6.65	97	9198	0.3194	ug/L	#	50
42)	Cyclohexane	6.67	56	24428	0.4858	ug/L		96
43)	Carbtetraclo	6.83	119	9092	0.3824	ug/L		85
44)	11dicloprope	6.87	110	5114	0.5532	ug/L		95
46)	Benzene	7.11	78	35846	0.5082	ug/L	#	1
47)	12dichlorota	7.21	62	18319	0.5596	ug/L	#	84
48)	TAME	7.24	73	21202	0.5007	ug/L	#	76
49)	trichloroete	7.94	95	12071	0.6126	ug/L	#	67
50)	methylcyclohexane	8.10	83	16282	0.4125	ug/L		83
51)	12dicloropra	8.26	63	8883	0.4012	ug/L	#	65
52)	23Dicl1propene	8.30	75	12749	0.4555	ug/L		97
53)	Dibromometha	8.40	93	7789	0.6396	ug/L	#	76
54)	methylmethacrylate	8.38	69	5412	0.3320	ug/L		96
55)	14dioxane	8.40	88	9182	50.6971	ug/L		80
56)	Bromodiclrma	8.59	83	10947	0.4984	ug/L		90
57)	2Nitropropane	8.93	43	28160	2.0369	ug/L		89
58)	2CLEVE	8.98	63	35931	2.5836	ug/L		91
59)	c13dicloproe	9.16	75	10409	0.3789	ug/L		95
60)	4Meth2Pentan	9.34	43	161768	5.5056	ug/L		87
62)	Toluene	9.54	92	31493	0.6092	ug/L		91
63)	t13Dicloprop	9.92	75	8117	0.3147	ug/L	#	74
64)	ethylmethacrylate	9.96	69	26354	0.9915	ug/L		92
65)	112Triclotha	10.14	83	6865	0.4854	ug/L	#	86
66)	Tetrachlorte	10.24	166	6205	0.3191	ug/L	#	74
67)	13Diclorpropa	10.38	76	16900	0.5697	ug/L		66
69)	2Hexanone	10.44	43	115215	5.7589	ug/L		92
70)	Clorodibrmta	10.63	129	8158	0.5023	ug/L		84
71)	12Dibrometha	10.79	107	9631	0.5793	ug/L	#	75
72)	Chlorobenzen	11.42	112	22914	0.4807	ug/L	#	51
73)	1Clhexane	11.39	91	12976	0.4630	ug/L	#	1
74)	1112Tetclota	11.56	131	5783	0.3390	ug/L	#	56
75)	Ethylbenzene	11.54	91	48533	0.5395	ug/L		92
76)	m p-Xylene	11.71	106	37921	1.1653	ug/L		95
77)	o-Xylene	12.26	106	17235	0.5312	ug/L	#	84
78)	Styrene	12.31	104	25853	0.4869	ug/L		77
79)	Bromoform	12.56	173	3460	0.2849	ug/L	#	45
80)	Isopropylben	12.77	105	44370	0.5783	ug/L		87
81)	cyclohexanone	12.96	55	10867	10.0531	ug/L	#	79
84)	Bromobenzene	13.24	156	13650	0.6526	ug/L	#	80
85)	1122Tetrclta	13.30	83	12523	0.4899	ug/L		100
86)	123Triclproa	13.33	75	13171	0.4764	ug/L		65
87)	14dichloro2butene	13.33	75	13171	0.4764	ug/L		95
88)	n-Propylbenz	13.35	91	55959	0.5690	ug/L		91
89)	2chlorotolue	13.51	91	32431	0.5540	ug/L		67
90)	4chlorotolue	13.67	91	36411	0.5894	ug/L		92
91)	135Trimebenz	13.62	105	38318	0.5859	ug/L		94
92)	tbutylbenzen	14.06	119	31214	0.5926	ug/L		93
93)	124Trimetben	14.16	105	37461	0.5905	ug/L		95
94)	sbutylbenzen	14.38	105	40481	0.5143	ug/L		99
95)	13Diclorbenz	14.59	146	18972	0.5709	ug/L		89
96)	pIsopropylto	14.59	119	31644	0.4941	ug/L	#	93
97)	14dichlorobe	14.73	146	18139	0.5024	ug/L	#	64
98)	12dichlorobe	15.27	146	17144	0.5389	ug/L		94
99)	nButylbenzen	15.19	91	36449	0.5856	ug/L		84
100)	12dibromo3cl	16.41	157	2708	0.5063	ug/L		90
101)	135Trichlorobenzene	16.67	180	15826	0.6215	ug/L		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL1.D Vial: 4
Acq On : 23 Aug 2013 16:09 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.5/5.0 ug/L, 5.0 mL Purged + ISTD/ Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:01 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
102)	124Trichlobe	17.52	180	10829	0.4989	ug/L	#	68
103)	Hexachlorobu	17.69	225	5788	0.5178	ug/L		95
104)	Naphthalene	17.82	128	36805	0.6443	ug/L		98
105)	123Trichlben	18.15	180	12753	0.6179	ug/L		94

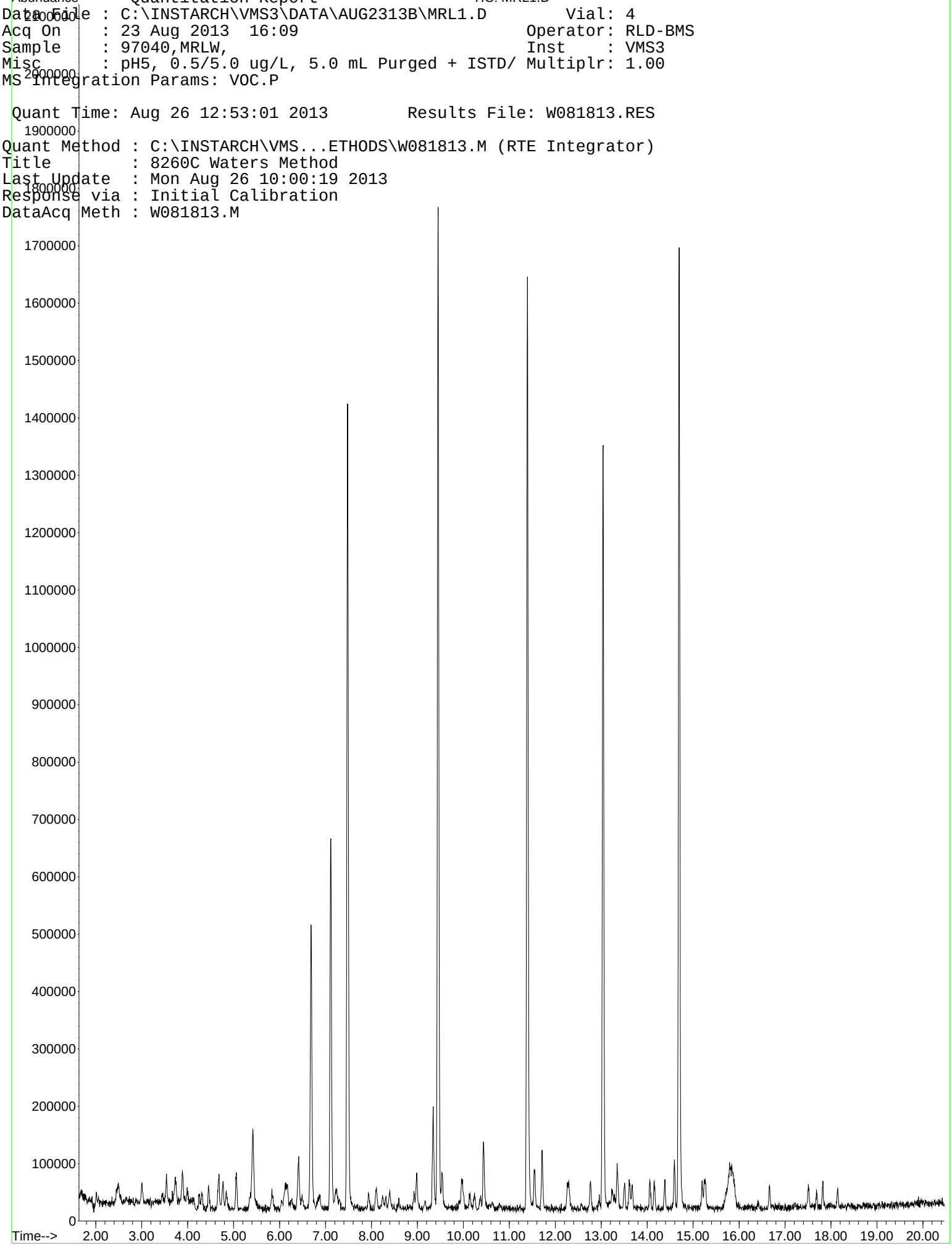
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: MRL1.D)

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL1.D Vial: 4
Acq On : 23 Aug 2013 16:09 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.5/5.0 ug/L, 5.0 mL Purged + ISTD/ Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:01 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TMB1.D Vial: 5
Acq On : 23 Aug 2013 16:39 Operator: RLD-BMS
Sample : 97040,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:59:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1386117	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	993533	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	543186	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	308421	18.258	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 96 %			
45) SURR12DCAd4	7.11	102	81759	17.551	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 92 %			
61) SURRd8Tolule	9.45	98	1382962	17.598	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 93 %			
83) SURR4BrFBenz	13.04	95	569960	20.052	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 106 %			

Target Compounds				Qvalue
2) Dichlorodi	0.00	85	0	N.D.
3) Chloromethan	1.90	50	1700	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	2.45	94	1545	N.D.
6) Chloroethane	0.00	64	0	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	3.44	59	1268	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	3.67	56	1303	N.D.
13) 11dichlorthe	3.70	96	1111	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	3.89	43	9034	N.D.
16) Iodomethane	3.93	142	1381	N.D.
17) Carbon Dislf	3.99	76	11329	N.D.
18) allylchloride	4.34	41	1106	N.D.
19) methylacetate	4.32	74	1144	N.D.
20) Methylchlorid	4.46	84	5831	N.D.
21) tbutylalcohol	4.69	59	1149	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	0.00	73	0	N.D.
25) Hexane	0.00	57	0	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	0.00	43	0	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	0.00	59	0	N.D.
31) 22dichloropr	0.00	77	0	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	6.40	42	1398	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TMB1.D Vial: 5
Acq On : 23 Aug 2013 16:39 Operator: RLD-BMS
Sample : 97040,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:59:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
42) Cyclohexane	0.00	56	0	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	0.00	78	0	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) trichloroete	0.00	95	0	N.D.	
50) methylcyclohexane	0.00	83	0	N.D.	
51) 12dicloropra	0.00	63	0	N.D.	
52) 23Dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) 14dioxane	0.00	88	0	N.D.	
56) Bromodiclrma	0.00	83	0	N.D.	
57) 2Nitropropane	0.00	43	0	N.D.	
58) 2CLEVE	0.00	63	0	N.D.	
59) c13dicloproe	9.15	75	1055	N.D.	
60) 4Meth2Pentan	9.45	43	6555	N.D.	
62) Toluene	9.55	92	1125	N.D.	
63) t13Dicloprop	0.00	75	0	N.D.	
64) ethylmethacrylate	0.00	69	0	N.D.	
65) 112Triclotha	0.00	83	0	N.D.	
66) Tetrachlorte	0.00	166	0	N.D.	
67) 13Diclorpropa	0.00	76	0	N.D.	
69) 2Hexanone	0.00	43	0	N.D.	
70) Clorodibrmta	0.00	129	0	N.D.	
71) 12Dibrometha	0.00	107	0	N.D.	
72) Chlorobenzen	0.00	112	0	N.D.	
73) 1Clhexane	11.39	91	1640	N.D.	
74) 1112Tetclota	0.00	131	0	N.D.	
75) Ethylbenzene	11.41	91	1006	N.D.	
76) m p-Xylene	0.00	106	0	N.D.	
77) o-Xylene	0.00	106	0	N.D.	
78) Styrene	0.00	104	0	N.D.	
79) Bromoform	0.00	173	0	N.D.	
80) Isopropylben	0.00	105	0	N.D.	
81) cyclohexanone	13.03	55	2073	N.D.	
84) Bromobenzene	0.00	156	0	N.D.	
85) 1122Tetrclta	0.00	83	0	N.D.	
86) 123Triclproa	0.00	75	0	N.D.	
87) 14dichloro2butene	0.00	75	0	N.D.	
88) n-Propylbenz	0.00	91	0	N.D.	
89) 2chlorotolue	0.00	91	0	N.D.	
90) 4chlorotolue	13.65	91	1125	N.D.	
91) 135Trimebenz	0.00	105	0	N.D.	
92) tbutylbenzen	0.00	119	0	N.D.	
93) 124Trimetben	0.00	105	0	N.D.	
94) sbutylbenzen	0.00	105	0	N.D.	
95) 13Diclorbenz	14.70	146	1328	N.D.	
96) pIsopropylto	0.00	119	0	N.D.	
97) 14dichlorobe	14.70	146	1328	N.D.	
98) 12dichlorobe	0.00	146	0	N.D.	
99) nButylbenzen	0.00	91	0	N.D.	
100) 12dibromo3cl	0.00	157	0	N.D.	
101) 135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TMB1.D Vial: 5
Acq On : 23 Aug 2013 16:39 Operator: RLD-BMS
Sample : 97040,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:59:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	17.83	128	1062	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

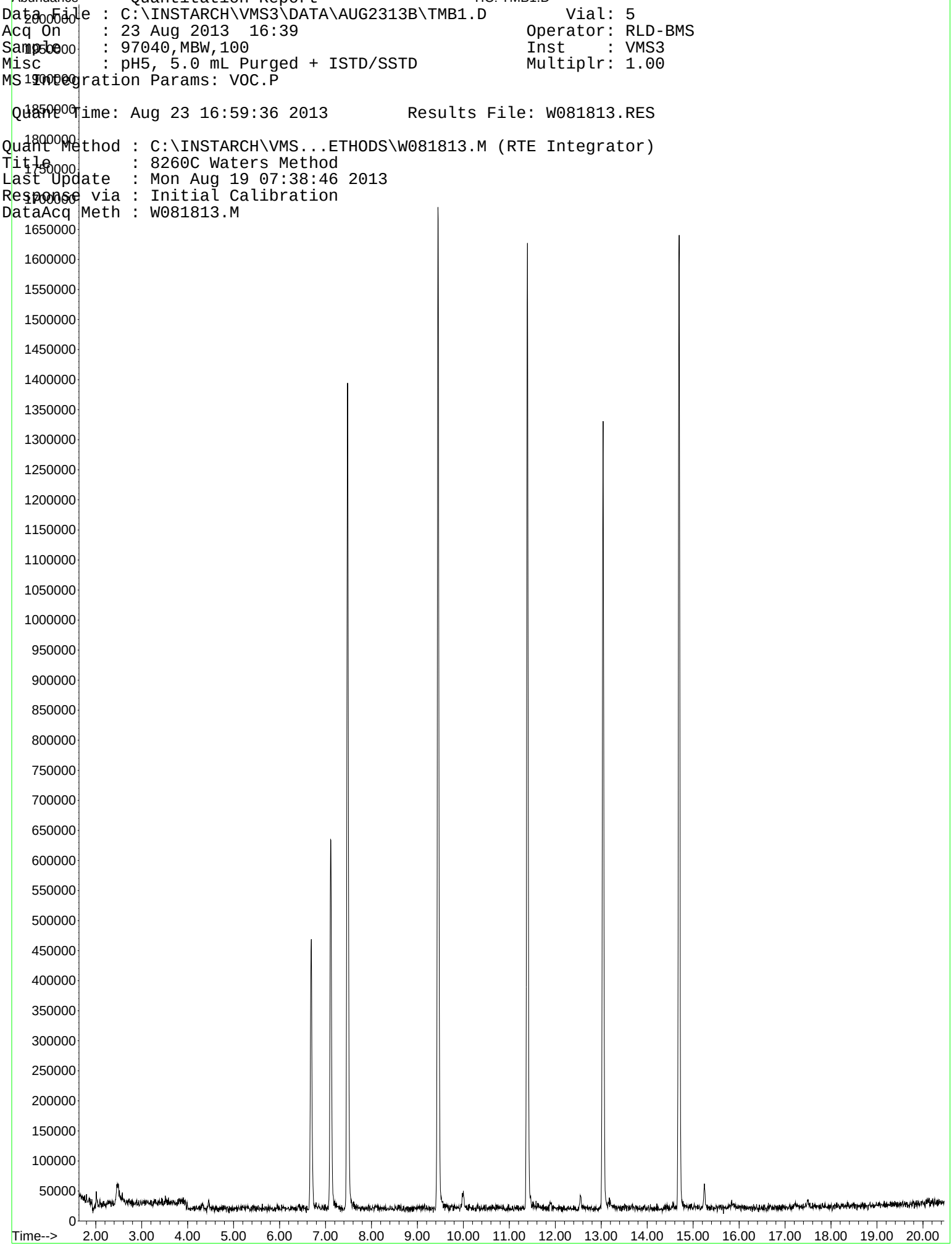
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: TMB1.D

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\TMB1.D Vial: 5
Acq On : 23 Aug 2013 16:39 Operator: RLD-BMS
Sample : 97040,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + ISTD/SSTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 16:59:36 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578MS.D Vial: 8
Acq On : 23 Aug 2013 18:07 Operator: RLD-BMS
Sample : 97040,MSW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:27:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1422738	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	1014403	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.69	152	603896	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	344887	19.891	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 105	%		
45) SURR12DCAd4	7.11	102	89489	18.716	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 99	%		
61) SURRd8Tolule	9.45	98	1496430	18.552	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 98	%		
83) SURR4BrFBenz	13.04	95	601920	19.047	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	296486	12.8079	ug/L	93
3) Chloromethan	1.92	50	232404	8.7721	ug/L	98
4) VinylChlorid	2.06	62	222929	9.6533	ug/L	100
5) Bromomethane	2.51	94	26606	3.7384	ug/L	98
6) Chloroethane	2.68	64	133389	10.7376	ug/L	96
7) Dichloroflmethane	3.00	67	398458	11.0082	ug/L	95
8) Trichlorofma	3.00	101	311808	11.5891	ug/L	99
9) Ethylether	3.44	59	177562	10.7569	ug/L	97
10) dichlorotfluoroethan	3.53	67	223569	10.4706	ug/L	98
11) propyleneoxide	3.54	58	368970	102.0096	ug/L	97
12) Acrolein	3.67	56	194709	44.0834	ug/L	91
13) 11dichlorthe	3.74	96	147104	10.5792	ug/L	97
14) Trichlorotfluoroeth	3.72	101	305861	23.3964	ug/L	96
15) Acetone	3.89	43	726607	79.0396	ug/L	98
16) Iodomethane	3.95	142	68651	5.2344	ug/L	97
17) Carbon Dislf	4.00	76	717760	24.6255	ug/L	99
18) allylchloride	4.26	41	570473	22.1187	ug/L	98
19) methylacetate	4.32	74	177704	10.9862	ug/L	86
20) Methylchlorid	4.45	84	198420	10.6811	ug/L	90
21) tbutylalcohol	4.67	59	1203036	472.8482	ug/L	87
22) Acrylonitrile	4.84	53	568236	50.9452	ug/L	99
23) t12dichlorte	4.77	96	193492	10.5855	ug/L	98
24) MtBE	4.76	73	477880	9.5765	ug/L	99
25) Hexane	5.06	57	829212	20.4989	ug/L	98
26) 11dichlorota	5.35	63	411372	10.3086	ug/L	97
27) Vinylacetate	5.41	43	3671868	110.1764	ug/L	100
28) chloroprene	5.43	53	933397	22.0216	ug/L	100
29) Diisopether	5.38	45	806071	10.6622	ug/L	98
30) ETBE	5.83	59	565904	9.1002	ug/L	97
31) 22dichloropr	6.05	77	225798	9.2011	ug/L	97
32) c12dichlorte	6.10	96	214457	10.1535	ug/L	96
33) 2Butanone	6.11	72	297398	96.2757	ug/L	98
34) propionitrile	6.25	54	456328	102.3279	ug/L	99
35) Ethylacetate	6.17	88	44063	49.8448	ug/L	96
36) methacrylonitrile	6.40	67	215266	20.3199	ug/L #	91
37) Bromochlorma	6.39	128	85510	10.2264	ug/L #	89
38) Tetrahydofur	6.40	42	987552	105.0768	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578MS.D Vial: 8
Acq On : 23 Aug 2013 18:07 Operator: RLD-BMS
Sample : 97040,MSW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:27:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.49	83	338742	10.2080	ug/L		99
40)	111trichlota	6.66	97	306146	10.5098	ug/L		98
42)	Cyclohexane	6.67	56	498451	10.0151	ug/L		99
43)	Carbtetraclo	6.83	119	229270	9.5497	ug/L		98
44)	11dicloprope	6.87	110	101927	10.8985	ug/L		98
46)	Benzene	7.10	78	769669	10.7866	ug/L		98
47)	12dichlorota	7.21	62	347451	10.4908	ug/L		99
48)	TAME	7.24	73	370769	8.6557	ug/L	#	79
49)	trichloroete	7.94	95	211069	10.5884	ug/L		99
50)	methylcyclohexane	8.10	83	401438	10.2293	ug/L		97
51)	12dicloropra	8.24	63	224590	10.0257	ug/L		95
52)	23Dicl1propene	8.30	75	302767	10.6921	ug/L		97
53)	Dibromometha	8.39	93	127602	10.3577	ug/L		92
54)	methylmethacrylate	8.38	69	170532	10.2463	ug/L		95
55)	14dioxane	8.40	88	79300	432.8065	ug/L		93
56)	Bromodiclrma	8.59	83	226103	10.1762	ug/L		91
57)	2Nitropropane	8.93	43	1277930	94.2686	ug/L	#	65
58)	2CLEVE	8.98	63	771140	54.8112	ug/L		97
59)	c13dicloproe	9.16	75	283700	10.2089	ug/L		99
60)	4Meth2Pentan	9.34	43	2786047	103.9291	ug/L		99
62)	Toluene	9.54	92	559582	10.7000	ug/L		100
63)	t13Dicloprop	9.91	75	229439	8.7562	ug/L		98
64)	ethylmethacrylate	9.96	69	597114	22.2055	ug/L		95
65)	112Triclotha	10.13	83	139753	9.7681	ug/L		95
66)	Tetrachlorte	10.24	166	219192	11.1432	ug/L		97
67)	13Diclorpropa	10.36	76	312478	10.4116	ug/L		98
69)	2Hexanone	10.43	43	2134161	103.5553	ug/L		99
70)	Clorodibrmta	10.63	129	147890	8.6998	ug/L		98
71)	12Dibrometha	10.79	107	176814	10.3249	ug/L		95
72)	Chlorobenzen	11.43	112	494829	10.0773	ug/L		97
73)	1Clhexane	11.39	91	304231	10.5389	ug/L		98
74)	1112Tetclota	11.56	131	165258	9.3510	ug/L		98
75)	Ethylbenzene	11.54	91	1036000	11.1788	ug/L		100
76)	m p-Xylene	11.72	106	730580	21.7941	ug/L		99
77)	o-Xylene	12.26	106	336885	10.0794	ug/L		99
78)	Styrene	12.29	104	565835	10.3445	ug/L		99
79)	Bromoform	12.57	173	99652	7.8859	ug/L		97
80)	Isopropylben	12.77	105	888715	11.2439	ug/L		95
81)	cyclohexanone	12.95	55	198996	178.7105	ug/L		97
84)	Bromobenzene	13.24	156	222693	10.1625	ug/L		94
85)	1122Tetrclta	13.28	83	266171	9.7356	ug/L		94
86)	123Triclproa	13.34	75	255250	8.6317	ug/L		93
87)	14dichloro2butene	13.34	75	255250	8.6317	ug/L		95
88)	n-Propylbenz	13.35	91	1112803	10.5796	ug/L		98
89)	2chlorotolue	13.50	91	647544	10.3432	ug/L		96
90)	4chlorotolue	13.66	91	665549	10.0729	ug/L		98
91)	135Trimebenz	13.61	105	775085	11.0810	ug/L		98
92)	tbutylbenzen	14.06	119	617454	10.9607	ug/L		95
93)	124Trimetben	14.15	105	752638	11.0918	ug/L		96
94)	sbutylbenzen	14.38	105	932489	11.0775	ug/L		96
95)	13Diclorbenz	14.59	146	361057	10.1590	ug/L		97
96)	pIsopropylto	14.59	119	746040	10.8921	ug/L		99
97)	14dichlorobe	14.73	146	393033	10.1778	ug/L		95
98)	12dichlorobe	15.27	146	356240	10.4701	ug/L		95
99)	nButylbenzen	15.20	91	753279	11.3148	ug/L		98
100)	12dibromo3cl	16.41	157	47793	8.4374	ug/L		97
101)	135Trichlorobenzene	16.66	180	302657	11.1124	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578MS.D Vial: 8
Acq On : 23 Aug 2013 18:07 Operator: RLD-BMS
Sample : 97040,MSW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:27:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.51	180	237462	10.2283 ug/L	94
103) Hexachlorobu	17.69	225	125838	10.5265 ug/L	98
104) Naphthalene	17.82	128	695826	11.3886 ug/L	98
105) 123Trichlben	18.15	180	237517	10.7595 ug/L	96

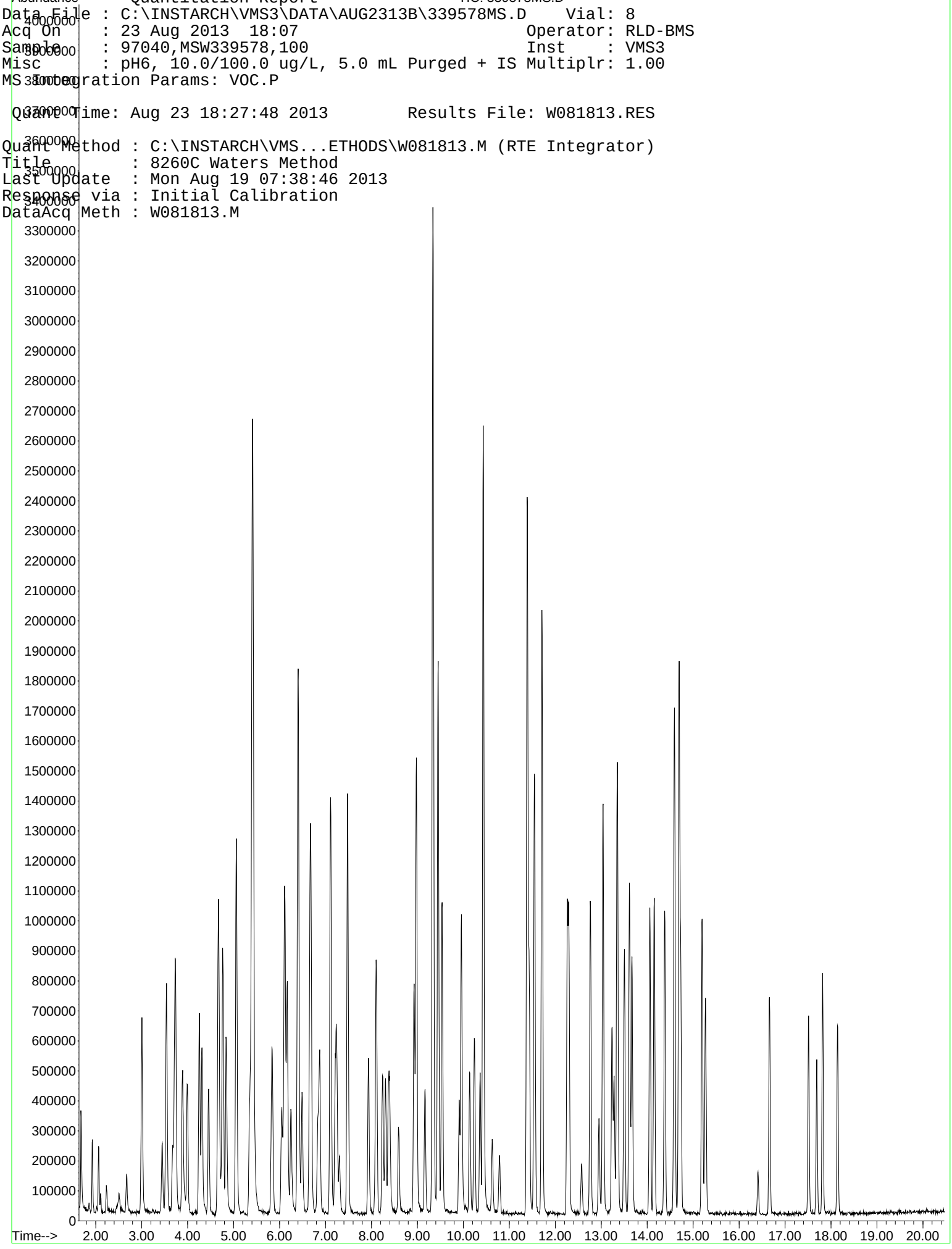
(#) = qualifier out of range (m) = manual integration
339578MS.D W081813.M Mon Aug 26 12:48:35 2013

Abundance Quantitation Report TIC: 339578MS.D

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578MS.D Vial: 8
Acq On : 23 Aug 2013 18:07 Operator: RLD-BMS
Sample : 97040,MSW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:27:48 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578SD.D Vial: 9
Acq On : 23 Aug 2013 18:36 Operator: RLD-BMS
Sample : 97040,MSDW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:56:59 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1414174	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	993667	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	569291	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	326389	18.938	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 100	%		
45) SURR12DCAd4	7.11	102	90782	19.102	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 101	%		
61) SURRd8Tolule	9.45	98	1445128	18.024	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 95	%		
83) SURR4BrFBenz	13.04	95	594403	19.953	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 105	%		
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	284266	12.3544	ug/L	99
3) Chloromethan	1.92	50	239670	9.1012	ug/L	89
4) VinylChlorid	2.06	62	232594	10.1328	ug/L	98
5) Bromomethane	2.51	94	31438	4.4441	ug/L	88
6) Chloroethane	2.67	64	129986	10.5270	ug/L	100
7) Dichloroflmethane	3.00	67	404464	11.2418	ug/L	97
8) Trichlorofma	3.00	101	320550	11.9861	ug/L	98
9) Ethylether	3.45	59	178374	10.8739	ug/L	97
10) dichlorotfluoroethan	3.53	67	222581	10.4877	ug/L	97
11) propyleneoxide	3.55	58	387643	107.8212	ug/L	99
12) Acrolein	3.67	56	196133	44.6747	ug/L	99
13) 11dichlorthe	3.73	96	144162	10.4304	ug/L	91
14) Trichlorotfluoroeth	3.72	101	297127	22.8659	ug/L	95
15) Acetone	3.89	43	786096	86.3947	ug/L	100
16) Iodomethane	3.93	142	86055	6.6094	ug/L	99
17) Carbon Dislf	4.00	76	737268	25.4480	ug/L	98
18) allylchloride	4.26	41	580203	22.6322	ug/L	97
19) methylacetate	4.31	74	173699	10.8036	ug/L	91
20) Methylchlorid	4.46	84	192984	10.4514	ug/L	97
21) tbutylalcohol	4.67	59	1292157	510.9525	ug/L	89
22) Acrylonitrile	4.84	53	584948	52.7611	ug/L	98
23) t12dichlorte	4.77	96	199716	10.9922	ug/L	96
24) MtBE	4.76	73	509514	10.2723	ug/L	95
25) Hexane	5.06	57	810488	20.1426	ug/L	100
26) 11dichlorota	5.35	63	423063	10.6657	ug/L	97
27) Vinylacetate	5.41	43	3741469	113.3978	ug/L	98
28) chloroprene	5.43	53	971145	23.0509	ug/L	99
29) Diisopether	5.38	45	795772	10.5897	ug/L	99
30) ETBE	5.84	59	576379	9.3248	ug/L	99
31) 22dichloropr	6.05	77	229212	9.3968	ug/L	97
32) c12dichlorte	6.10	96	218213	10.3939	ug/L	96
33) 2Butanone	6.12	72	307710	100.2172	ug/L	99
34) propionitrile	6.25	54	478603	107.9728	ug/L	98
35) Ethylacetate	6.17	88	42743	48.6741	ug/L #	91
36) methacrylonitrile	6.40	67	217358	20.6416	ug/L	96
37) Bromochlorma	6.39	128	77516	9.3265	ug/L #	93
38) Tetrahydofur	6.40	42	1021769	109.3759	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578SD.D Vial: 9
Acq On : 23 Aug 2013 18:36 Operator: RLD-BMS
Sample : 97040,MSDW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:56:59 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.49	83	343558	10.4159 ug/L		98
40)	111trichlota	6.67	97	309873	10.7021 ug/L		97
42)	Cyclohexane	6.67	56	505078	10.2145 ug/L		99
43)	Carbtetraclo	6.83	119	220469	9.2382 ug/L		92
44)	11dicloprope	6.87	110	89958	9.6770 ug/L	#	82
46)	Benzene	7.11	78	779784	10.9946 ug/L		97
47)	12dichlorota	7.21	62	350074	10.6340 ug/L		97
48)	TAME	7.24	73	376924	8.8527 ug/L	#	81
49)	trichloroete	7.94	95	202455	10.2178 ug/L		95
50)	methylcyclohexane	8.10	83	395828	10.1459 ug/L		97
51)	12dicloropra	8.24	63	242369	10.8849 ug/L		97
52)	23Dicl1propene	8.31	75	289126	10.2722 ug/L		92
53)	Dibromometha	8.39	93	122911	10.0373 ug/L		96
54)	methylmethacrylate	8.36	69	167916	10.1511 ug/L		91
55)	14dioxane	8.39	88	96400	529.3217 ug/L		98
56)	Bromodiclrma	8.59	83	226759	10.2675 ug/L		90
57)	2Nitropropane	8.93	43	769240	56.3536 ug/L		98
58)	2CLEVE	8.98	63	808285	57.7993 ug/L		98
59)	c13dicloproe	9.16	75	291502	10.5532 ug/L		95
60)	4Meth2Pentan	9.34	43	2842596	107.0502 ug/L		99
62)	Toluene	9.53	92	551729	10.6137 ug/L		99
63)	t13Dicloprop	9.91	75	216421	8.3112 ug/L		97
64)	ethylmethacrylate	9.96	69	612839	22.9283 ug/L		94
65)	112Triclotha	10.14	83	150068	10.5525 ug/L		93
66)	Tetrachlorte	10.24	166	223985	11.4558 ug/L		99
67)	13Diclorpropa	10.37	76	313367	10.5045 ug/L		98
69)	2Hexanone	10.43	43	2197997	108.8785 ug/L		100
70)	Clorodibrmta	10.63	129	149859	8.9945 ug/L		99
71)	12Dibrometha	10.78	107	172246	10.2681 ug/L		97
72)	Chlorobenzen	11.44	112	496326	10.3187 ug/L		98
73)	1Clhexane	11.38	91	299264	10.5832 ug/L		99
74)	1112Tetclota	11.56	131	160980	9.2994 ug/L		100
75)	Ethylbenzene	11.54	91	1026935	11.3122 ug/L		100
76)	m p-Xylene	11.72	106	702765	21.4018 ug/L		97
77)	o-Xylene	12.26	106	335808	10.2569 ug/L		100
78)	Styrene	12.30	104	560674	10.4641 ug/L		98
79)	Bromoform	12.57	173	112601	9.0823 ug/L		99
80)	Isopropylben	12.76	105	857643	11.0772 ug/L		98
81)	cyclohexanone	12.95	55	225670	206.8946 ug/L		99
84)	Bromobenzene	13.23	156	216072	10.4667 ug/L		99
85)	1122Tetrclta	13.29	83	292438	11.3465 ug/L		100
86)	123Triclproa	13.34	75	276760	9.9280 ug/L		95
87)	14dichloro2butene	13.34	75	276760	9.9280 ug/L		99
88)	n-Propylbenz	13.35	91	1140408	11.5011 ug/L		99
89)	2chlorotolue	13.50	91	667674	11.3130 ug/L		99
90)	4chlorotolue	13.67	91	677870	10.8830 ug/L		97
91)	135Trimebenz	13.61	105	772051	11.7086 ug/L		97
92)	tbutylbenzen	14.06	119	603524	11.3646 ug/L		97
93)	124Trimetben	14.15	105	741682	11.5948 ug/L		96
94)	sbutylbenzen	14.38	105	897254	11.3069 ug/L		100
95)	13Diclorbenz	14.59	146	367812	10.9781 ug/L		98
96)	pIsopropylto	14.59	119	748796	11.5968 ug/L		97
97)	14dichlorobe	14.73	146	408545	11.2226 ug/L		95
98)	12dichlorobe	15.27	146	358920	11.1901 ug/L		96
99)	nButylbenzen	15.20	91	754215	12.0175 ug/L		97
100)	12dibromo3cl	16.42	157	45586	8.5380 ug/L	#	75
101)	135Trichlorobenzene	16.67	180	309148	12.0407 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578SD.D Vial: 9
Acq On : 23 Aug 2013 18:36 Operator: RLD-BMS
Sample : 97040,MSDW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:56:59 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

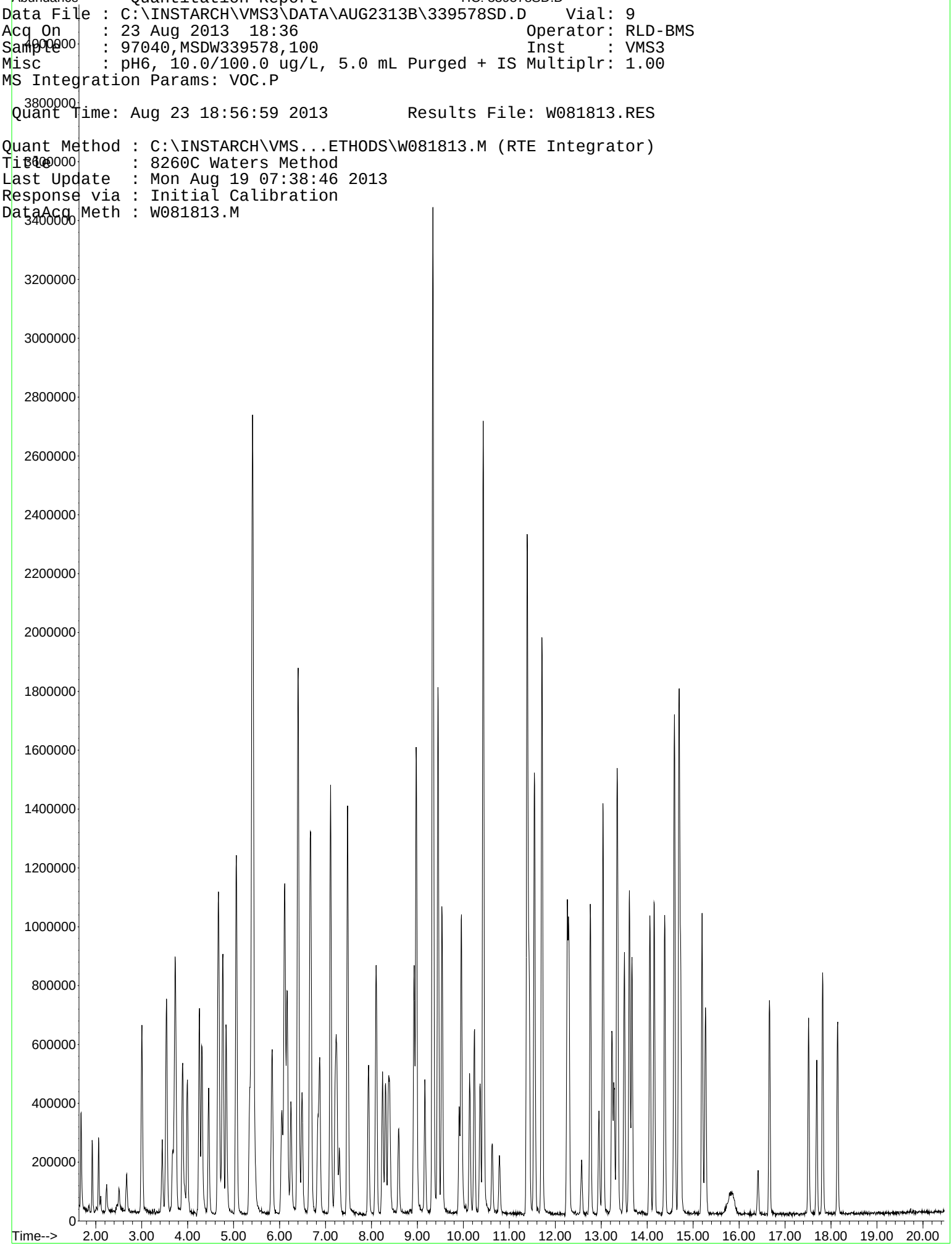
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.51	180	243886	11.1435 ug/L	94
103) Hexachlorobu	17.70	225	128525	11.4048 ug/L	99
104) Naphthalene	17.82	128	727023	12.6226 ug/L	98
105) 123Trichlben	18.15	180	245304	11.7877 ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\339578SD.D Vial: 9
Acq On : 23 Aug 2013 18:36 Operator: RLD-BMS
Sample : 97040,MSDW339578,100 Inst : VMS3
Misc : pH6, 10.0/100.0 ug/L, 5.0 mL Purged + IS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 23 18:56:59 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 19 07:38:46 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL2.D Vial: 10
Acq On : 23 Aug 2013 19:05 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.50/5.0 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:08 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1374733	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	980282	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	560473	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.69	113	302084	18.031	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 95 %			
45) SURR12DCAd4	7.12	102	83796	18.138	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 95 %			
61) SURRd8Tolule	9.45	98	1372758	17.613	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 93 %			
83) SURR4BrFBenz	13.04	95	544892	18.578	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	11872	0.5308	ug/L	87
3) Chloromethan	1.93	50	8768	0.3425	ug/L	76
4) VinylChlorid	2.07	62	10112	0.4532	ug/L	96
5) Bromomethane	2.52	94	1179	0.1714	ug/L #	3
6) Chloroethane	2.68	64	7597	0.6329	ug/L	75
7) Dichloroflmethane	3.01	67	19718	0.5638	ug/L	93
8) Trichlorofma	3.01	101	17342	0.6671	ug/L	78
9) Ethylether	3.45	59	13665	0.8414	ug/L	94
10) dichlorotfluoroethan	3.54	67	8518	0.4061	ug/L #	80
11) propyleneoxide	3.54	58	19689	5.6335	ug/L	89
12) Acrolein	3.67	56	9909	2.3218	ug/L	99
13) 11dichlorthe	3.74	96	8003	0.5956	ug/L #	1
14) Trichlorotfluoroeth	3.73	101	14977	1.1856	ug/L #	80
15) Acetone	3.89	43	67856	7.3360	ug/L	95
16) Iodomethane	3.93	142	2057	0.1616	ug/L #	37
17) Carbon Dislf	4.00	76	40732	1.4463	ug/L	91
18) allylchloride	4.25	41	26975	1.0824	ug/L	97
19) methylacetate	4.31	74	9587	0.6134	ug/L	94
20) Methylchlorid	4.46	84	18279	1.0183	ug/L	90
21) tbutylalcohol	4.67	59	60691	24.6873	ug/L	76
22) Acrylonitrile	4.85	53	31073	2.8831	ug/L #	73
23) t12dichlorte	4.77	96	8467	0.4794	ug/L #	69
24) MtBE	4.76	73	22679	0.4703	ug/L	91
25) Hexane	5.06	57	37066	0.9115	ug/L	96
26) 11dichlorota	5.34	63	20545	0.5328	ug/L	95
27) Vinylacetate	5.42	43	176592	4.8502	ug/L	90
28) chloroprene	5.44	53	40120	0.9796	ug/L	92
29) Diisopether	5.39	45	38882	0.5323	ug/L	90
30) ETBE	5.83	59	26843	0.4467	ug/L	90
31) 22dichloropr	6.05	77	9175	0.3869	ug/L	75
32) c12dichlorte	6.10	96	9301	0.4557	ug/L	95
33) 2Butanone	6.14	72	14883	4.9863	ug/L	75
34) propionitrile	6.26	54	14203	3.2961	ug/L	89
35) Ethylacetate	6.17	88	1214	1.4581	ug/L #	33
36) methacrylonitrile	6.41	67	6345	0.6198	ug/L #	14
37) Bromochlorma	6.39	128	4576	0.5664	ug/L #	81
38) Tetrahydofur	6.42	42	59075	6.5051	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL2.D Vial: 10
Acq On : 23 Aug 2013 19:05 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.50/5.0 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:08 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.50	83	16255	0.5070 ug/L		99
40)	111trichlota	6.66	97	12002	0.4264 ug/L		91
42)	Cyclohexane	6.66	56	23917	0.4866 ug/L		96
43)	Carbtetraclo	6.83	119	4493	0.1933 ug/L	#	44
44)	11dicloprope	6.87	110	5288	0.5852 ug/L		94
46)	Benzene	7.10	78	40619	0.5891 ug/L	#	1
47)	12dichlorota	7.21	62	19450	0.6078 ug/L		95
48)	TAME	7.24	73	17009	0.4109 ug/L	#	73
49)	trichloroete	7.93	95	11679	0.6063 ug/L	#	84
50)	methylcyclohexane	8.10	83	17302	0.4484 ug/L		90
51)	12dicloropra	8.25	63	9741	0.4500 ug/L		98
52)	23Dicl1propene	8.30	75	12443	0.4548 ug/L		91
53)	Dibromometha	8.41	93	5798	0.4871 ug/L		92
54)	methylmethacrylate	8.37	69	7104	0.4457 ug/L		89
55)	14dioxane	8.39	88	7803	44.0746 ug/L	#	21
56)	Bromodiclrma	8.59	83	8817	0.4107 ug/L	#	82
57)	2Nitropropane	8.92	43	21904	1.6206 ug/L		81
58)	2CLEVE	8.99	63	34722	2.5542 ug/L		91
59)	c13dicloproe	9.17	75	9422	0.3509 ug/L		73
60)	4Meth2Pentan	9.34	43	149555	5.2055 ug/L		88
62)	Toluene	9.54	92	28848	0.5709 ug/L		88
63)	t13Dicloprop	9.91	75	8243	0.3269 ug/L		91
64)	ethylmethacrylate	9.96	69	21942	0.8445 ug/L		94
65)	112Triclotha	10.14	83	6086	0.4402 ug/L	#	78
66)	Tetrachlorte	10.26	166	8594	0.4522 ug/L		87
67)	13Diclorpropa	10.36	76	15515	0.5350 ug/L		97
69)	2Hexanone	10.44	43	106268	5.3359 ug/L		97
70)	Clorodibrmta	10.64	129	4039	0.2499 ug/L	#	89
71)	12Dibrometha	10.79	107	8334	0.5036 ug/L		85
72)	Chlorobenzen	11.43	112	30050	0.6333 ug/L	#	72
73)	1Clhexane	11.39	91	16068	0.5760 ug/L	#	28
74)	1112Tetclota	11.56	131	5802	0.3416 ug/L	#	82
75)	Ethylbenzene	11.55	91	50049	0.5588 ug/L		98
76)	m p-Xylene	11.71	106	30163	0.9311 ug/L	#	79
77)	o-Xylene	12.28	106	14434	0.4469 ug/L	#	86
78)	Styrene	12.30	104	25391	0.4804 ug/L		85
79)	Bromoform	12.57	173	2522	0.2086 ug/L		91
80)	Isopropylben	12.76	105	40654	0.5323 ug/L		93
81)	cyclohexanone	12.95	55	11272	10.4753 ug/L	#	91
84)	Bromobenzene	13.24	156	12824	0.6176 ug/L	#	70
85)	1122Tetrclta	13.27	83	13704	0.5401 ug/L		98
86)	123Triclproa	13.35	75	11538	0.4204 ug/L		97
87)	14dichloro2butene	13.35	75	11538	0.4204 ug/L	#	66
88)	n-Propylbenz	13.35	91	47109	0.4826 ug/L		93
89)	2chlorotolue	13.50	91	28672	0.4935 ug/L		97
90)	4chlorotolue	13.67	91	30526	0.4978 ug/L		95
91)	135Trimebenz	13.62	105	32567	0.5017 ug/L		98
92)	tbutylbenzen	14.06	119	27368	0.5235 ug/L		92
93)	124Trimetben	14.16	105	31616	0.5020 ug/L		92
94)	sbutylbenzen	14.38	105	44433	0.5687 ug/L		100
95)	13Diclorbenz	14.59	146	18991	0.5757 ug/L		97
96)	pIsopropylto	14.59	119	30705	0.4830 ug/L	#	92
97)	14dichlorobe	14.73	146	17387	0.4851 ug/L	#	63
98)	12dichlorobe	15.28	146	16789	0.5317 ug/L		89
99)	nButylbenzen	15.20	91	26288	0.4255 ug/L		94
100)	12dibromo3cl	16.42	157	3081	0.5804 ug/L	#	15
101)	135Trichlorobenzene	16.66	180	14056	0.5561 ug/L		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL2.D Vial: 10
Acq On : 23 Aug 2013 19:05 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.50/5.0 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:08 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102)	124Trichlobe	17.52	180	11624	0.5395 ug/L	92
103)	Hexachlorobu	17.69	225	5813	0.5239 ug/L #	72
104)	Naphthalene	17.82	128	31477	0.5551 ug/L	97
105)	123Trichlben	18.14	180	10500	0.5125 ug/L	86

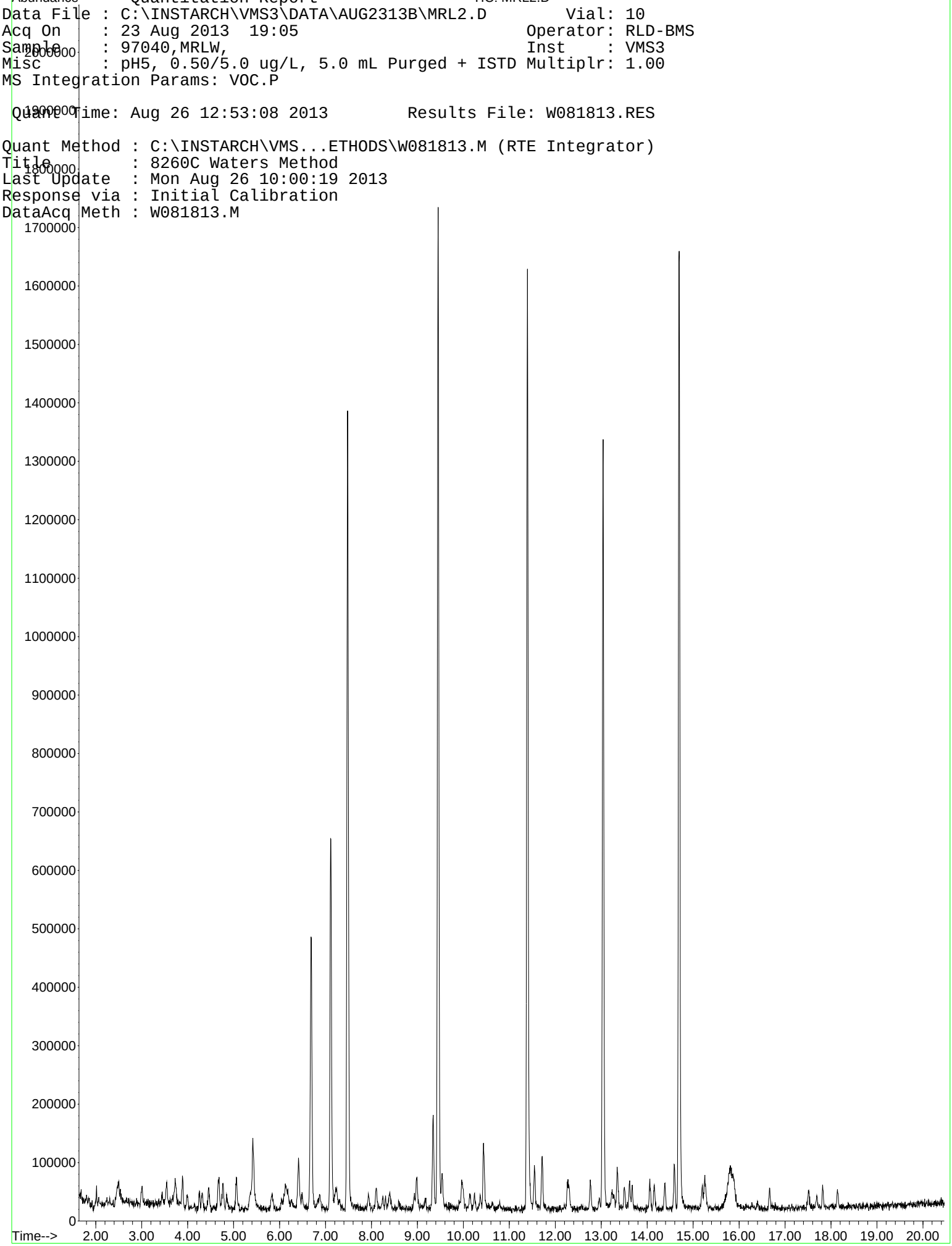
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: MRL2.D

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MRL2.D Vial: 10
Acq On : 23 Aug 2013 19:05 Operator: RLD-BMS
Sample : 97040,MRLW, Inst : VMS3
Misc : pH5, 0.50/5.0 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:53:08 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MDL1.D Vial: 11
Acq On : 23 Aug 2013 19:34 Operator: RLD-BMS
Sample : 97040,MDLW, Inst : VMS3
Misc : pH5, 0.25/2.5 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:54:13 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.48	96	1388506	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.39	117	966746	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	547354	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.68	113	304593	18.000	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 95 %			
45) SURR12DCAd4	7.12	102	90564	19.408	ug/L	0.00
Spiked Amount 19.000	Range 89 - 112		Recovery = 102 %			
61) SURRd8Tolule	9.45	98	1374897	17.465	ug/L	0.00
Spiked Amount 19.000	Range 88 - 115		Recovery = 92 %			
83) SURR4BrFBenz	13.04	95	553067	19.309	ug/L	0.00
Spiked Amount 19.000	Range 80 - 125		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	1.68	85	5322	0.2356	ug/L	80
3) Chloromethan	1.92	50	6687	0.2586	ug/L	76
4) VinylChlorid	2.07	62	5168	0.2293	ug/L	91
5) Bromomethane	2.54	94	1007	0.1450	ug/L #	75
6) Chloroethane	2.68	64	1929	0.1591	ug/L #	44
7) Dichloroflmethane	3.00	67	7631	0.2160	ug/L	76
8) Trichlorofma	3.00	101	5860	0.2232	ug/L	95
9) Ethylether	3.44	59	4502	0.2742	ug/L #	30
10) dichlorotfluoroethan	3.53	67	5834	0.2754	ug/L #	64
11) propyleneoxide	3.55	58	8002	2.2669	ug/L #	29
12) Acrolein	3.68	56	4216	0.9781	ug/L	85
13) 11dichlorthe	3.73	96	3984	0.2936	ug/L #	58
14) Trichlorotfluoroeth	3.73	101	1871	0.1466	ug/L #	31
15) Acetone	3.89	43	32438	3.4647	ug/L	82
16) Iodomethane	4.03	142	1520	0.1182	ug/L #	37
17) Carbon Dislf	4.00	76	22349	0.7857	ug/L	94
18) allylchloride	4.27	41	8646	0.3435	ug/L	82
19) methylacetate	4.32	74	4600	0.2914	ug/L	85
20) Methylchlorid	4.46	84	10201	0.5627	ug/L #	87
21) tbutylalcohol	4.66	59	24150	9.7261	ug/L #	58
22) Acrylonitrile	4.85	53	9345	0.8585	ug/L #	77
23) t12dichlorte	4.78	96	4016	0.2251	ug/L #	84
24) MtBE	4.76	73	7253	0.1489	ug/L #	73
25) Hexane	5.07	57	17725	0.4311	ug/L #	87
26) 11dichlorota	5.35	63	8382	0.2152	ug/L #	76
27) Vinylacetate	5.42	43	64517	1.7485	ug/L	85
28) chloroprene	5.43	53	16402	0.3965	ug/L	93
29) Diisopether	5.39	45	15515	0.2103	ug/L	97
30) ETBE	5.85	59	11139	0.1835	ug/L	76
31) 22dichloropr	6.05	77	2044	0.0853	ug/L #	45
32) c12dichlorte	6.09	96	5251	0.2547	ug/L #	76
33) 2Butanone	6.15	72	4991	1.6556	ug/L	96
34) propionitrile	6.26	54	3200	0.7353	ug/L #	57
35) Ethylacetate	6.09	88	297m	0.3534	ug/L #	0
36) methacrylonitrile	6.41	67	2826	0.2733	ug/L #	31
37) Bromochlorma	6.38	128	2171	0.2660	ug/L #	58
38) Tetrahydofur	6.42	42	24198	2.6382	ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MDL1.D Vial: 11
Acq On : 23 Aug 2013 19:34 Operator: RLD-BMS
Sample : 97040,MDLW, Inst : VMS3
Misc : pH5, 0.25/2.5 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:54:13 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.48	83	8617	0.2661 ug/L		83
40)	111trichlota	6.68	97	7487	0.2634 ug/L	#	58
42)	Cyclohexane	6.67	56	8515	0.1714 ug/L	#	73
43)	Carbtetraclo	6.84	119	2616	0.1114 ug/L	#	44
44)	11dicloprope	6.87	110	1609	0.1763 ug/L	#	73
46)	Benzene	7.12	78	17098	0.2455 ug/L	#	1
47)	12dichlorota	7.21	62	10386	0.3213 ug/L	#	90
48)	TAME	7.24	73	7636	0.1827 ug/L		81
49)	trichloroete	7.94	95	5256	0.2702 ug/L	#	73
50)	methylcyclohexane	8.11	83	6024	0.1545 ug/L		83
51)	12dicloropra	8.24	63	4289	0.1962 ug/L	#	38
52)	23Dicl1propene	8.30	75	6472	0.2342 ug/L		95
53)	Dibromometha	8.39	93	3718	0.3092 ug/L		83
54)	methylmethacrylate	8.38	69	1840	0.1143 ug/L	#	41
55)	14dioxane	8.41	88	1717	9.6021 ug/L	#	15
56)	Bromodiclrma	8.60	83	1949	0.0899 ug/L	#	1
57)	2Nitropropane	8.93	43	9495	0.6953 ug/L		80
58)	2CLEVE	8.99	63	10632	0.7743 ug/L		81
59)	c13dicloproe	9.18	75	3197	0.1179 ug/L	#	53
60)	4Meth2Pentan	9.34	43	58657	2.0150 ug/L		88
62)	Toluene	9.55	92	10689	0.2094 ug/L	#	84
63)	t13Dicloprop	9.91	75	2951	0.1159 ug/L	#	47
64)	ethylmethacrylate	9.96	69	7596	0.2894 ug/L	#	84
65)	112Triclotha	10.14	83	4013	0.2874 ug/L	#	74
66)	Tetrachlorte	10.24	166	3888	0.2025 ug/L		86
67)	13Diclorpropa	10.36	76	7462	0.2548 ug/L		99
69)	2Hexanone	10.44	43	41237	2.0996 ug/L		88
70)	Clorodibrmta	10.61	129	2089	0.1311 ug/L	#	86
71)	12Dibrometha	10.78	107	4062	0.2489 ug/L	#	72
72)	Chlorobenzen	11.44	112	10228	0.2186 ug/L	#	35
73)	1Clhexane	11.39	91	6392	0.2323 ug/L	#	1
74)	1112Tetclota	11.55	131	1232	0.0736 ug/L	#	1
75)	Ethylbenzene	11.55	91	18643	0.2111 ug/L		93
76)	m p-Xylene	11.71	106	14484	0.4534 ug/L		97
77)	o-Xylene	12.27	106	6034	0.1894 ug/L	#	77
78)	Styrene	12.31	104	10569	0.2027 ug/L		75
79)	Bromoform	12.57	173	1453	0.1219 ug/L	#	28
80)	Isopropylben	12.76	105	15627	0.2075 ug/L		99
81)	cyclohexanone	12.95	55	5136	4.8398 ug/L	#	48
84)	Bromobenzene	13.24	156	5941	0.2928 ug/L	#	78
85)	1122Tetrclta	13.29	83	2977	0.1201 ug/L	#	1
86)	123Triclproa	13.35	75	5543	0.2068 ug/L		88
87)	14dichloro2butene	13.35	75	5543	0.2068 ug/L	#	74
88)	n-Propylbenz	13.35	91	17920	0.1880 ug/L		87
89)	2chlorotolue	13.50	91	12826	0.2260 ug/L		99
90)	4chlorotolue	13.67	91	13500	0.2254 ug/L		86
91)	135Trimebenz	13.61	105	15271	0.2409 ug/L		81
92)	tbutylbenzen	14.06	119	12198	0.2389 ug/L		87
93)	124Trimetben	14.16	105	12178	0.1980 ug/L		89
94)	sbutylbenzen	14.39	105	13218	0.1732 ug/L		91
95)	13Diclorbenz	14.60	146	6903	0.2143 ug/L	#	82
96)	pIsopropylto	14.61	119	10079	0.1624 ug/L	#	82
97)	14dichlorobe	14.73	146	9676	0.2764 ug/L	#	38
98)	12dichlorobe	15.27	146	8057	0.2613 ug/L	#	68
99)	nButylbenzen	15.19	91	9191	0.1523 ug/L		90
100)	12dibromo3cl	16.41	157	1021m	0.1968 ug/L	#	0
101)	135Trichlorobenzene	16.65	180	5351	0.2168 ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MDL1.D Vial: 11
Acq On : 23 Aug 2013 19:34 Operator: RLD-BMS
Sample : 97040,MDLW, Inst : VMS3
Misc : pH5, 0.25/2.5 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:54:13 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102)	124Trichlobe	17.51	180	4698	0.2233 ug/L	88
103)	Hexachlorobu	17.70	225	2345	0.2164 ug/L	80
104)	Naphthalene	17.82	128	14177	0.2560 ug/L	84
105)	123Trichlben	18.15	180	5016	0.2507 ug/L #	66

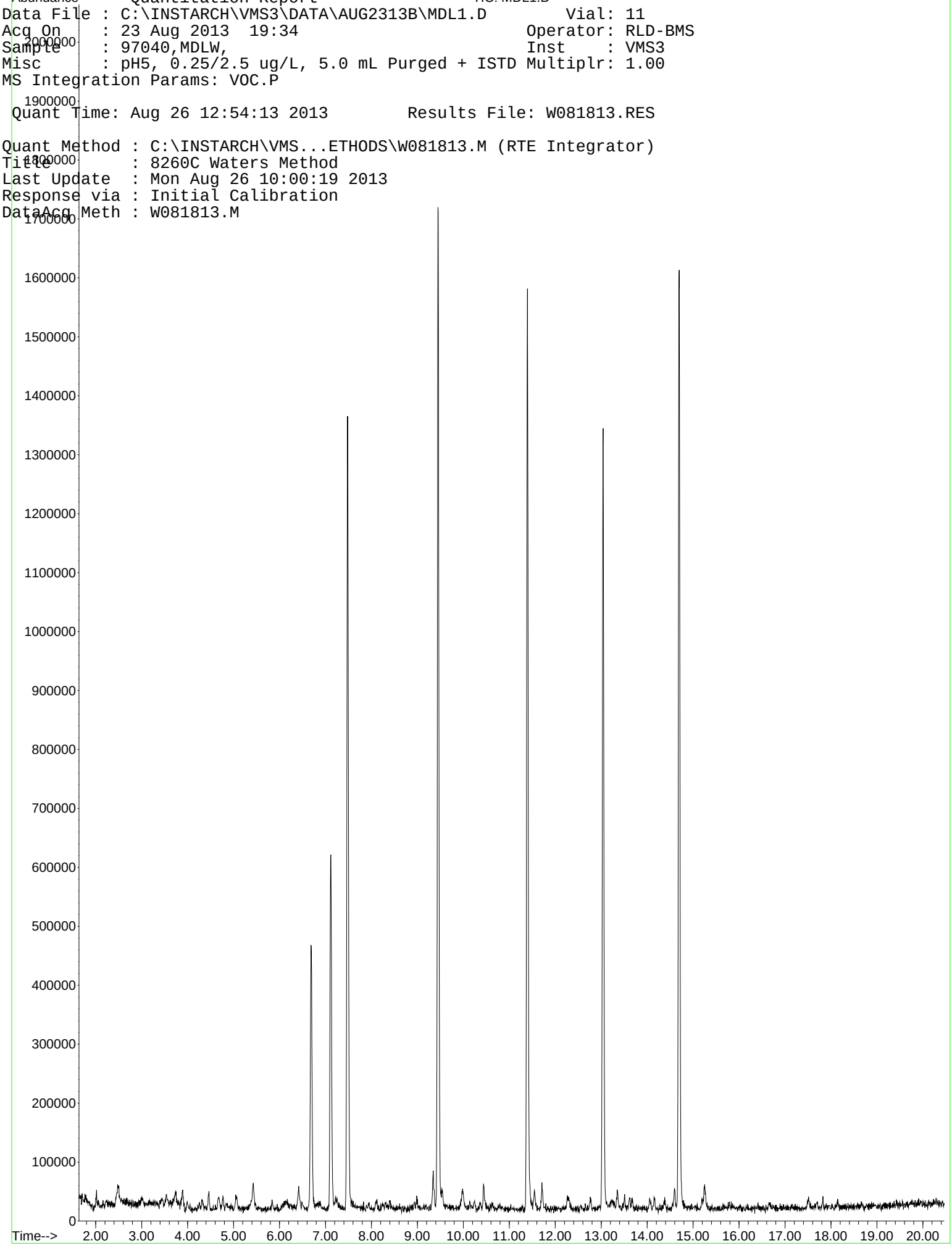
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: MDL1.D

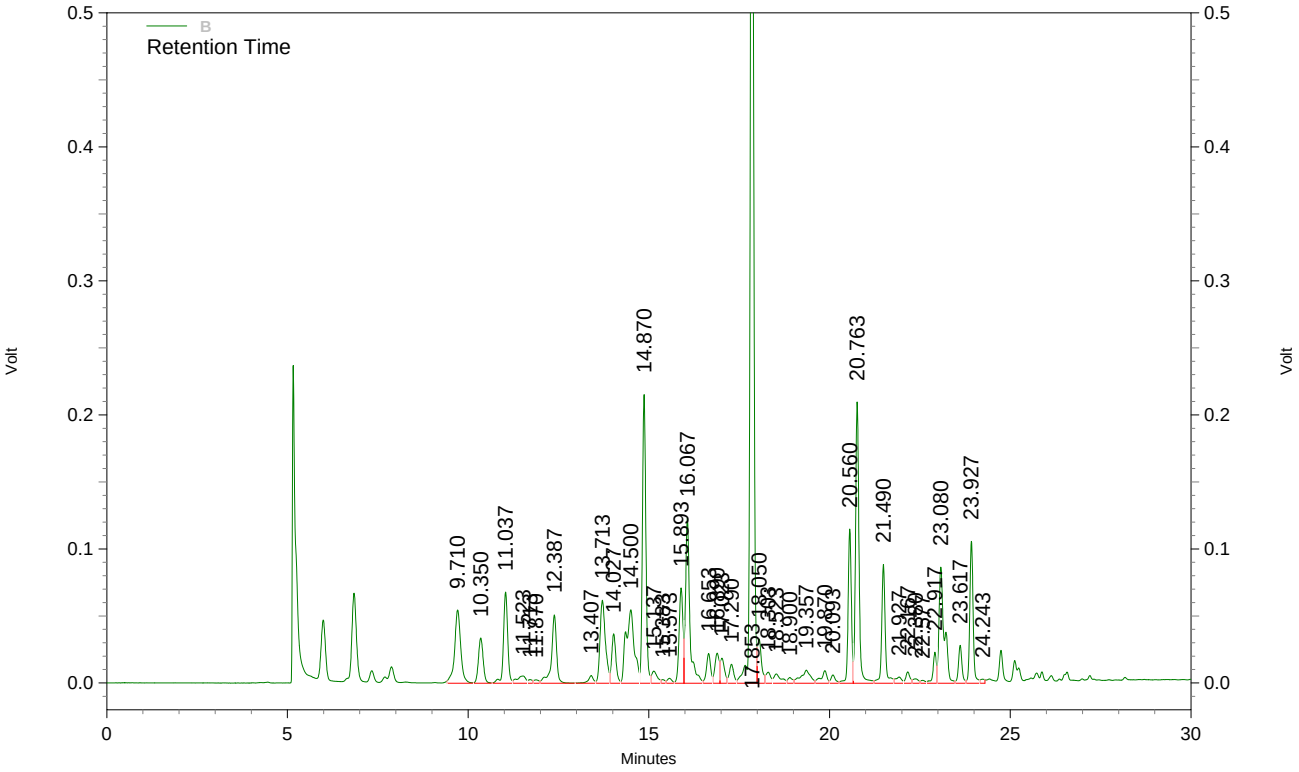
Data File : C:\INSTARCH\VMS3\DATA\AUG2313B\MDL1.D Vial: 11
Acq On : 23 Aug 2013 19:34 Operator: RLD-BMS
Sample : 97040,MDLW, Inst : VMS3
Misc : pH5, 0.25/2.5 ug/L, 5.0 mL Purged + ISTD Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Aug 26 12:54:13 2013 Results File: W081813.RES

Quant Method : C:\INSTARCH\VMS...ETHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Aug 26 10:00:19 2013
Response via : Initial Calibration
DataAcq Meth : W081813.M



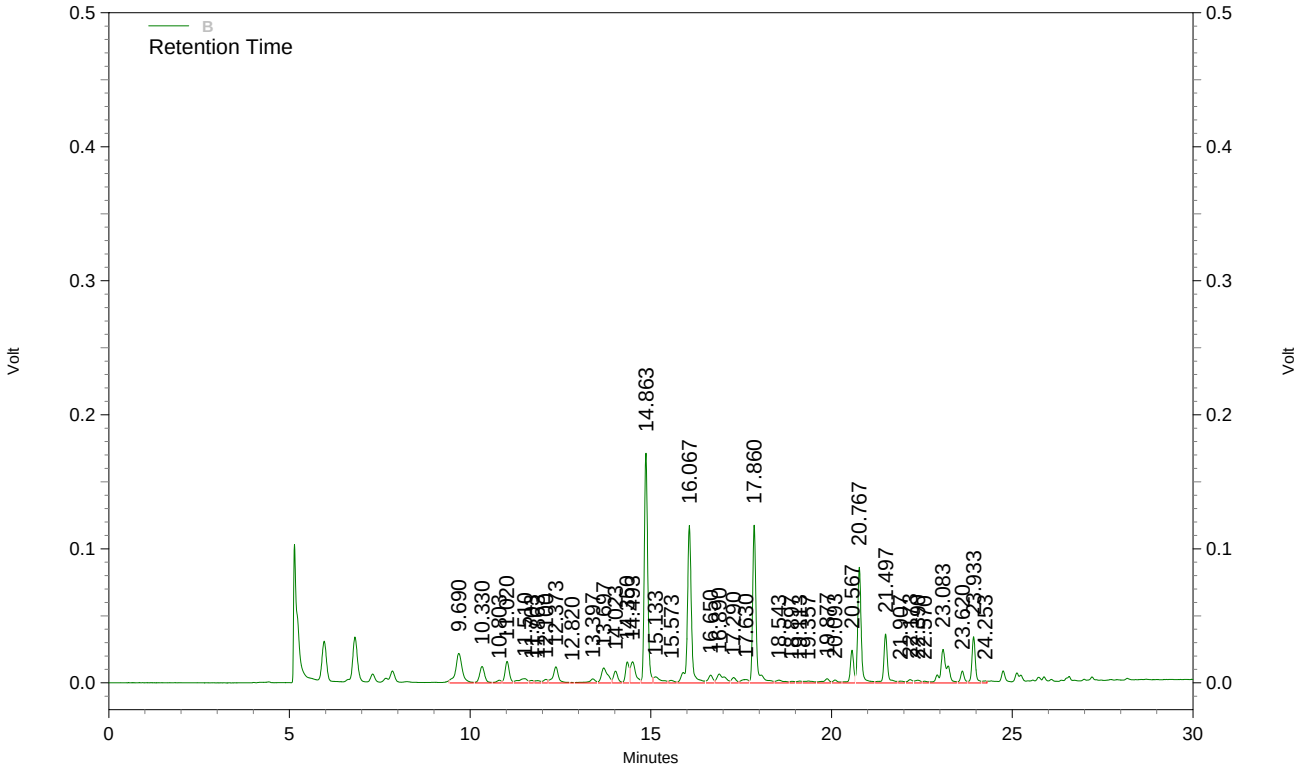
Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\004.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 11:11:16
Sample ID : 96941,LCSW,
File Desc. : LABORATORY CONT SAMPLE - 400 ug/L / EJC IDC 259136



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	1018130	122.984	16.067
GRO	17849790	394.087	

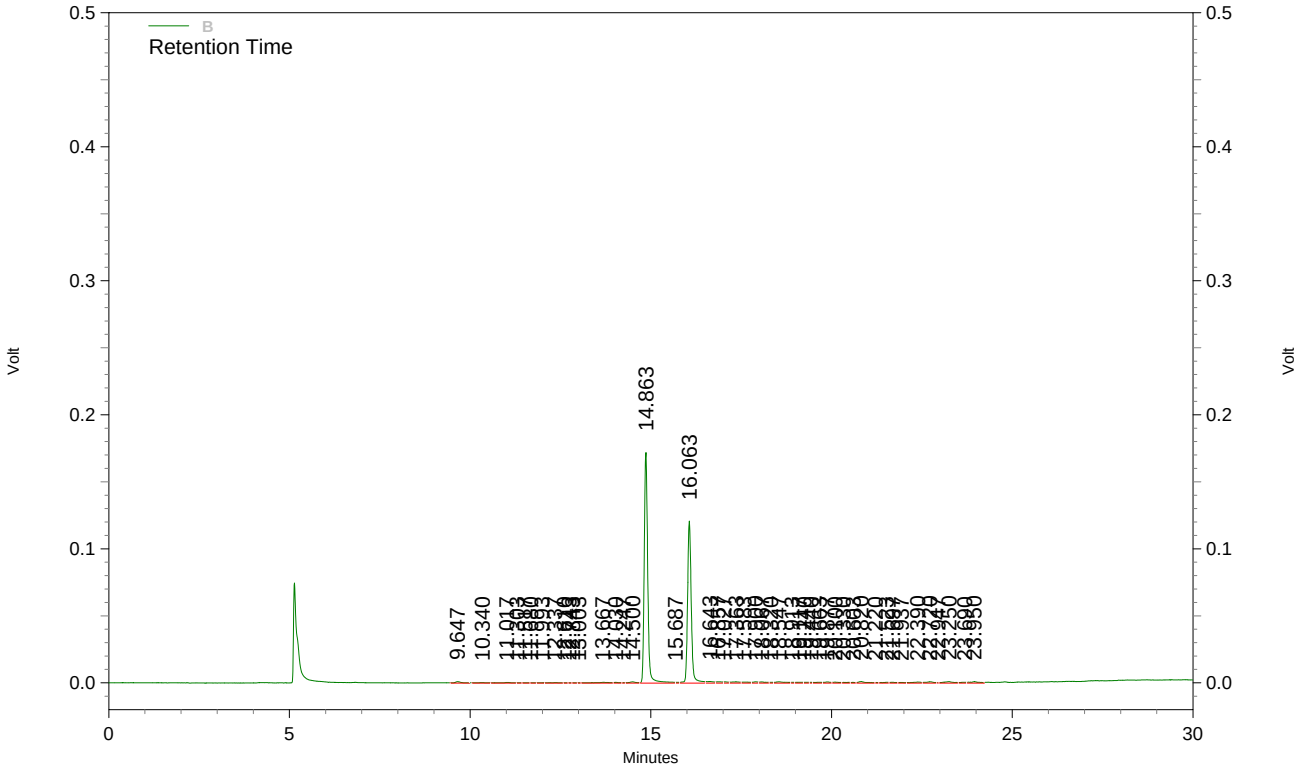
Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\005.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 11:53:20
Sample ID : 96940,MRLW,
File Desc. : METHOD REPORTING LIMIT - 100 ug/L
5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	915881	110.425	16.067
GRO	5425989	109.361	

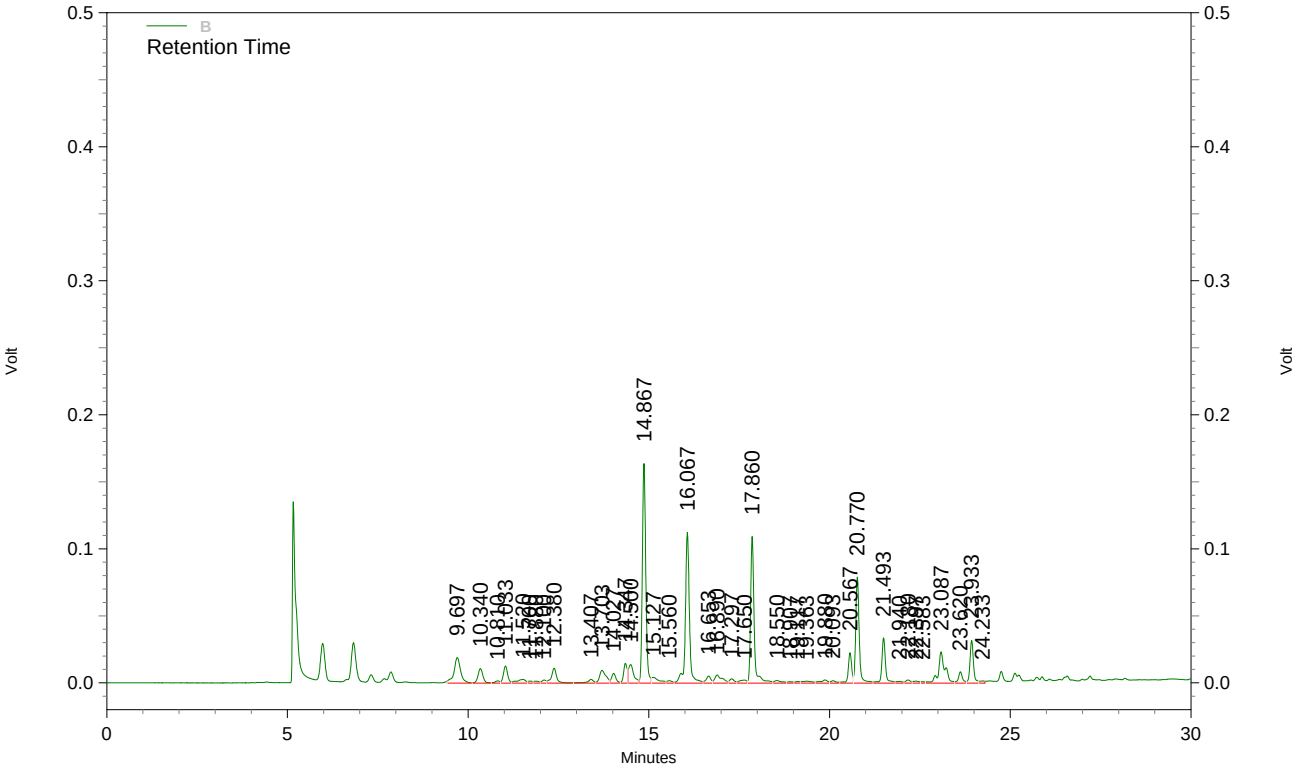
Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\006.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 21, 2013 12:35:42
Sample ID : 96941,MBW,1,pH<2
File Desc. : METHOD BLANK
5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	855473	103.005	16.063
GRO	1587285	21.386	

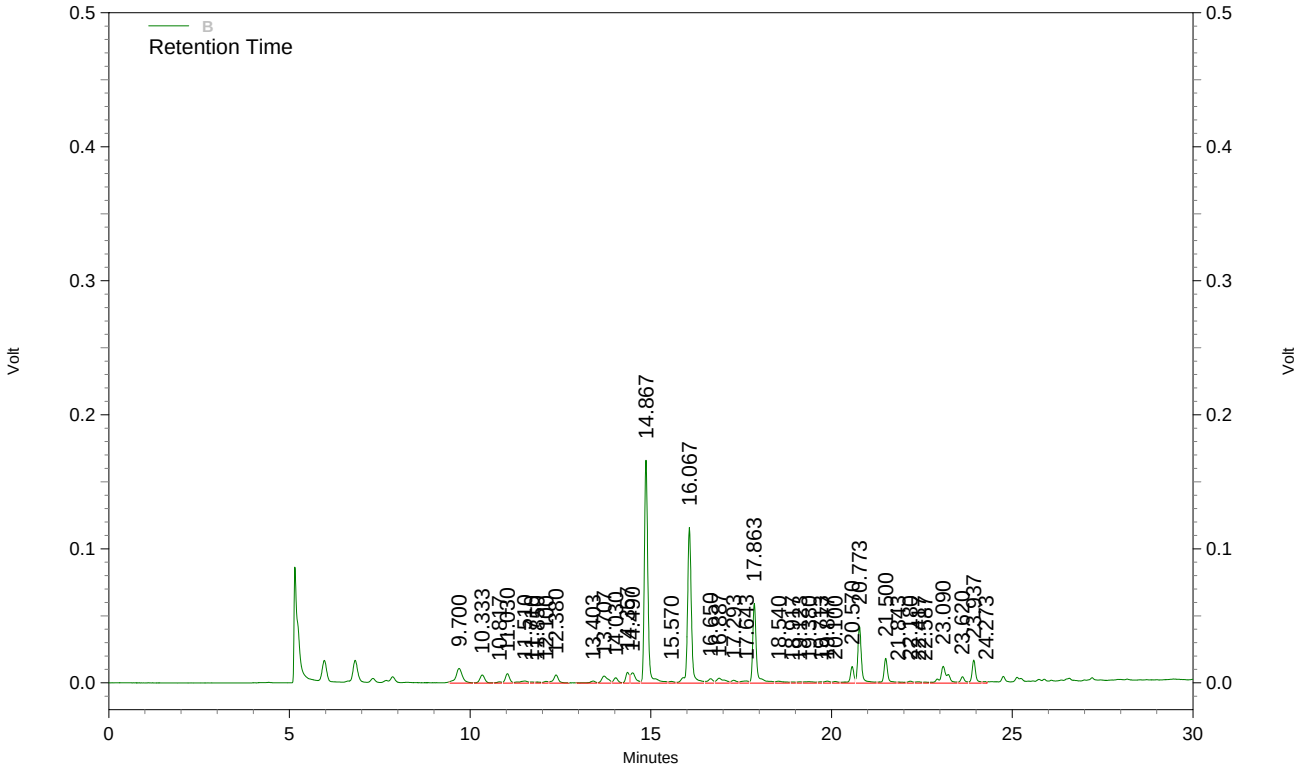
Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\025.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 22, 2013 02:04:57
Sample ID : 96940,MRLW,
File Desc. : METHOD REPORTING LIMIT - 100 ug/L
5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	873091	105.169	16.067
GRO	4922166	97.814	

Inst : **PVOC2 (Offline)**
File : C:\Instarch\PVOC2\Data\082113-8015w\026.dat
Method : C:\Instarch\PVOC2\Methods\8015p2w011413.met
Acquired : Aug 22, 2013 02:47:38
Sample ID : 96940,MDLW,
File Desc. : METHOD DETECTION LIMIT - 50 ug/L
5.0 mL PURGED + ISTD



B Results

Compound Name	*Area*	*Conc. (ug/L)*	Retention Time
S:aaaTFT	858660	103.397	16.067
GRO	3328427	61.289	

VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

VOC 8260 QSM WATER Analytical Run
96835 on 8/20/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	340027							VOC 8260 QSM WATER				
				BFB					0			
	340023							VOC 8260 QSM WATER				
				CCV					0			
	340024							VOC 8260 QSM WATER				
				LCSW					0			
	340028							VOC 8260 QSM WATER				
				MBW					0			
	338729		8/15/2013 0900					VOC 8260 QSM		GW	**1**	
		STORAGE BLANK 7/30/13										
99335	339581		8/15/2013 0800			ECC	RVAAP	VOC 8260 QSM		M	**4**	
		083SB-0024-0001-TB										
99335	339561		8/15/2013 0930			ECC	RVAAP	VOC 8260 QSM		GW	**4**	
		083SB-0023-0001-ER										
	340195		8/15/2013 0930					VOC 8260 QSM				
		083SB-0023-0001-ER		MSW	339561				0			
	340715		8/15/2013 0930					VOC 8260 QSM				
		083SB-0023-0001-ER		MSDW	340195				0			

9 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Injection Log Summary Report

Method : C:\INSTARCH\VMS3\METHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\VMS3\DATA\AUG1913\BFB1.D
Injection Date : 19 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 11:11 Total files within period : 22
Sample Directory : C:\INSTARCH\VMS3\DATA\AUG1913\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	19 Aug 2013	11:25
CCV-LCS1	1.00	1.00	1.00	96833,LCSW, 10.0/100.0 ug/L, 5.0 mL P	19 Aug 2013	11:55
MB1	1.00	1.00	1.00	96833,MBW, pH<2, 5.0 mL DI H20 Purge	19 Aug 2013	12:25
339581	1.00	1.00	1.00	96835,339581, pH<2, 5.0 mL Purged + IST	19 Aug 2013	19:19
339561	1.00	1.00	1.00	96835,339561, pH<2, 5.0 mL Purged + IST	19 Aug 2013	19:48
339561MS	1.00	1.00	1.00	96835,MSW339561, pH<2, 10.0/100.0 ug/L, 5.	19 Aug 2013	21:16
339561SD	1.00	1.00	1.00	96835,MSDW339561, pH<2, 10.0/100.0 ug/L, 5.	19 Aug 2013	21:46

8260 ISTD/SSTD 16ug/ml VOCO4 3920
8260 BFB STD. 50ug/ml VOCO4 3918
8260 ICV STD. 100ug/ml VOCO4 3929
8260 CCV/CALIB. 100ug/ml VOCO4 3930

INDEPENDENT DATA REVIEW CHECKLIST		Method: GCMS (EPA SW-846 8260C)					
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved? Yes / No		Instrument
08/19/2013	96833, 96835	RLD	BMS	08/21/2013	Yes		VMS3
Instructions: Complete one checklist per analytical run. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.							

Requirement:	Acceptance criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments:
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If No, Do not proceed with analyses.
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were Relative Response Factors (RRF) acceptable?	RRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, reanalyze or recalibrate if needed.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	If no, reanalyzed ICV to address failures (Iodomethane low on ICV1).
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		If no, analyze another ICB to address detects.
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were RRF compounds acceptable?	RRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, reanalyze or recalibrate if needed.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?		Yes		Yes		If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)	Yes		Yes		If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?						If yes, affected results qualified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a LCS with each sample batch.
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?		Yes		Yes		If yes, affected results qualified "Q"
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MS/MSD pair with each sample batch.
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						IF no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were reported results with amounts exceeding acceptance criteria flagged with appropriate qualifier and, if needed, a NCR completed?		Yes		Yes		If no, apply appropriate qualifiers.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
Was the integrity of the sample kept intact? If not, was a NCR completed?		Yes		Yes		If No, include proper qualification and nonconformity documentation.

Non-applicable Yes/No cells are left blank

Comments:

VOC 8260 QSM TCLP Analytical Run
97040 on 8/26/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	343269							VOC 8260 QSM TCLP				
				BFB					0			
	343260							VOC 8260 QSM TCLP				
				CCV					0			
	343270							VOC 8260 QSM TCLP				
				LCSW					0			
	344484							VOC 8260 QSM TCLP				
				MRLW								
	343278							VOC 8260 QSM TCLP				
				MBW					0			
99335	339578	8/15/2013	0835			ECC	RVAAP	VOC 8260 QSM TCLP		M	**4**	
		083SB-0022-0001-IDW										
99335	339580	8/15/2013	0900			ECC	RVAAP	VOC 8260 QSM TCLP		M	**4**	
		083SB-0021-0001-IDW										
	343276	8/15/2013	0835					VOC 8260 QSM TCLP				
		083SB-0022-0001-IDW		MSW	339578				0			
	343277	8/15/2013	0835					VOC 8260 QSM TCLP				
		083SB-0022-0001-IDW		MSDW	343276				0			
	344485							VOC 8260 QSM TCLP				
				MRLW								
	344486							VOC 8260 QSM TCLP				
				MDLW								

11 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

TCLP/SPLP/ASTM Extraction Summary

Batch: 2366 *Date:* 8/22/13 *Analyst (set up):* RA *Analyst (take down):* BMS

Sample #	Parameter	Test			Vessel / ZHE	Buffer Determination			Sample wt.	**Free Liquids Present (Y/N)	Vol. Ext. Fluid	Initial pH	ZHE Initial Press	Time In	Date / Time Out	Ext. Time	End pH	ZHE End Press	Date / Time Filtered	Volume Filtered
	(M / SV / V / WC)	TCLP	SPLP	ASTM	#	Initial pH	End pH	*Ext. Fluid	(g)		(mL)		(psi)			(hrs)		(psi)		(mL)
TCLP BLK	V	✓			6	—	—	1	—	—	500	5	10	16:00	8/23/13 / 10:00	18	5	10	08/23/13 / 11:00	—
339578	V	✓			7	—	—	1	24.93	N	500	5	10	16:00	8/23/13 / 10:00	18	6	10	08/23/13 / 11:00	—
									08/23/13 BMS						/				/	
															/				/	
															/				/	
															/				/	
															/				/	
															/				/	
															/				/	
															/				/	
															/				/	

Extraction Fluid Used: TCLP #1 *Ext. Fluid ID #:* M11595 *Ext. Fluid pH:* 4.93 *Ext. Start Temp (°C):* 21 °C

Ext. End Temp(°C): 21 *Filter Manufacturer:* Env. Exp. *Filter Lot #:* 101352-3176 *Tumbler Unit #(s):* 2

Balance: VBD202 *pH Meter:* — *Acceptable rotation rate:* 30 ±2 rpm *Verified Rotation rate:* 31 rpm

1N HCL: _____

M=Metals, SV=Semi Volatiles, V=Volatiles, WC=Wet Chemistry

% Solids Calculation Worksheet

Tare weights (g) *Transfer weights (g)* *Separation weights (g)* *% Solids Calculations*

Sample #	A Filter wt.	B Filtrate Vessel wt.	C Transfer Vessel wt.	D Sample + Transfer Vessel	E Sample wt {D – C}	F Vessel wt. Post Transfer	G Residue wt. {F – C}	H Total Waste Amount {E – G}	I Filtrate Vessel + Filtrate	J Liquid Phase of Sample {I – B}	K Solid Phase of Sample {H – J}	L. % Solids (**) (K/H*100)	M Waste + Filter (Dry) wt. (g)	% Solids (Dry) ({M – A}/H)*100

RA 8/22/13

(**) If Solids = <0.5%, treat filtrate as TCLP extract, if free liquid present use % Solids Calculation Worksheet

Reviewed By/Date: _____

Injection Log Summary Report

Method : C:\INSTARCH\VMS3\METHODS\W081813.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\VMS3\DATA\AUG2313B\BFB1.D
Injection Date : 23 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 14:31 Total files within period : 10
Sample Directory : C:\INSTARCH\VMS3\DATA\AUG2313B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV1	1.00	1.00	1.00	97040,CCV, 10.0/100.0 ug/L, 5.0 mL P	23 Aug 2013	15:10
TLCS1	1.00	1.00	1.00	97040,LCSW,100 pH5, 10.0/100.0 ug/L, 5.0	23 Aug 2013	15:40
MRL1	1.00	1.00	1.00	97040,MRLW, pH5, 0.5/5.0 ug/L, 5.0 mL	23 Aug 2013	16:09
TMB1	1.00	1.00	1.00	97040,MBW,100 pH5, 5.0 mL Purged + ISTD	23 Aug 2013	16:39
339578	1.00	1.00	1.00	97040,339578,100 pH6, 5.0 mL Purged + ISTD	23 Aug 2013	17:08
339580	1.00	1.00	1.00	97040,339580,100 pH<2, 5.0 mL Purged + IST	23 Aug 2013	17:37
339578MS	1.00	1.00	1.00	97040,MSW339578,100 pH6, 10.0/100.0 ug/L, 5.0	23 Aug 2013	18:07
339578SD	1.00	1.00	1.00	97040,MSDW339578,100 pH6, 10.0/100.0 ug/L, 5.0	23 Aug 2013	18:36
MRL2	1.00	1.00	1.00	97040,MRLW, pH5, 0.50/5.0 ug/L, 5.0 m	23 Aug 2013	19:05
MDL1	1.00	1.00	1.00	97040,MDLW, pH5, 0.25/2.5 ug/L, 5.0 m	23 Aug 2013	19:34

8260 ISTD/SSTD 16ug/ml VOCO4 3920
8260 BFB STD. 50ug/ml VOCO4 3918
8260 ICV STD. 100ug/ml VOCO4 3929
8260 CCV/CALIB. 100ug/ml VOCO4 3930

INDEPENDENT DATA REVIEW CHECKLIST		Method: GCMS (EPA SW-846 8260C)					
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved? Yes	Approved? No	Instrument
8/23/2013 (B)	97040	RLD	BMS	08/27/2013	Yes		VMS3
Instructions: Complete one checklist per analytical run. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.							

Requirement:	Acceptance criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments:
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If No, Do not proceed with analyses.
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were Relative Response Factors (RRF) acceptable?	RRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, reanalyze or recalibrate if needed.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		If no, analyze another ICB to address detects.
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were RRF compounds acceptable?	RRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, reanalyze or recalibrate if needed.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?		Yes		Yes		If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)	Yes		Yes		If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?						If yes, affected results qualified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a LCS with each sample batch.
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						If yes, affected results qualified "Q"
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MS/MSD pair with each sample batch.
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						IF no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were reported results with amounts exceeding acceptance criteria flagged with appropriate qualifier and, if needed, a NCR completed?		Yes		Yes		If no, apply appropriate qualifiers.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
Was the integrity of the sample kept intact? If not, was a NCR completed?		Yes		Yes		If No, include proper qualification and nonconformity documentation.

Non-applicable Yes/No cells are left blank

Comments:

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\VMS3\METHODS\W081813.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\VMS3\DATA\AUG1813\BFB1.D
Injection Date : 18 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 08:20 Total files within period : 16
Sample Directory : C:\INSTARCH\VMS3\DATA\AUG1813\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CALW1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.5/5.00 ug/L, 5.0 m	18 Aug 2013	10:05
CALW2	1.00	1.00	1.00	INITIAL CALIB. PT2 2.0/20.0 ug/L, 5.0 m	18 Aug 2013	10:35
CALW3	1.00	1.00	1.00	INITIAL CALIB. PT3 5.0/50.0 ug/L, 5.0 m	18 Aug 2013	11:04
CALW4	1.00	1.00	1.00	INITIAL CALIB. PT4 10.0/100.0 ug/L, 5.0	18 Aug 2013	11:34
CALW5	1.00	1.00	1.00	INITIAL CALIB. PT5 20.0/200.0 ug/L, 5.0	18 Aug 2013	12:03
CALW6	1.00	1.00	1.00	INITIAL CALIB. PT6 30.0/300.0 ug/L, 5.0	18 Aug 2013	12:33
CALW7	1.00	1.00	1.00	INITIAL CALIB. PT7 40.0/400.0 ug/L, 5.0	18 Aug 2013	13:03
CALW8	1.00	1.00	1.00	INITIAL CALIB. PT8 80.0/800.0 ug/L, 5.0	18 Aug 2013	13:32
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100.0 ug/L, 5.0	18 Aug 2013	14:32
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300.0 ug/L, 5.0	18 Aug 2013	15:01
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.0 mL DI H20 Purged	18 Aug 2013	15:59

8260 ISTD/SSTD 16ug/ml VOCO4 3920
8260 BFB STD. 50ug/ml VOCO4 3918
8260 ICV STD. 100ug/ml VOCO4 3929
8260 CCV/CALIB. 100ug/ml VOCO4 3930

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V666 1000/10000ug/ml (3) V672 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/14/13	BMS 8/7/13	VOCO4 3925
8260 CCV/ Calib. Std.	(1) V667 2000ug/ml (2) V665 1000/10000ug/ml (3) V671 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/14/13	BMS 8/7/13	VOCO4 3926
8015 CCV/Calib. Std.	V656 - 50000 ug/mL	B&J MEOH DD471	0.2 mL of std. into 10 mL of MeOH	1000 ug/mL	02/07/13	EJC 08/07/13	VOC04 3927
8015 ICV/Spiking Std.	V632 - 5000 ug/mL	B&J MEOH DD471	1 mL of std. into 5 mL of MeOH	1000 ug/mL	02/07/13	EJC 08/07/13	VOC04 3928
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V666 1000/10000ug/ml (3) V672 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/23/13	RLD 8/16/13	VOCO4 3929
8260 CCV/ Calib. Std.	(1) V667 2000ug/ml (2) V665 1000/10000ug/ml (3) V671 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/23/13	RLD 8/16/13	VOCO4 3930

Standard Prep Log ID # Concentration		Solvent/Lot	Prep	Final Concentration	Expiration Date	Prepped By Date	ID #
PVOC/GRO ISTD	V639 - 2000 ug/mL	B&J MEOH DD471	1 mL of std. into 25 mL of MeOH	80 ug/mL	01/01/14	BMS 07/01/13	VOC04 3909
PVOC/GRO SSTD	V648 - 2000 ug/mL	B&J MEOH DD471	0.5 mL of std. into 10 mL of MeOH	100 ug/mL	01/01/14	BMS 07/01/13	VOC04 3910
PVOC/GRO ISTD/SSTD	V639 - 2000 ug/mL V648 - 2000 ug/mL	B&J MEOH DD471	1 mL of each into 25 mL of MeOH	80 ug/mL	01/01/14	BMS 07/01/13	VOC04 3911
PVOC/GRO CCV/Calib. Std.	V651 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	01/01/14	BMS 07/01/13	VOC04 3912
PVOC/GRO ICV/Spiking Std.	V631 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	01/01/14	BMS 07/01/13	VOC04 3913
8260 ICV/ Spiking Std. RD 7/15/13	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/12/13	RLD 7/5/13	VOCO4 3914
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/12/13	RLD 7/5/13	VOCO4 3915
8260 ICV/ Spiking Std. RD 7/15/13	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/22/13	RLD 7/15/13	VOCO4 3916
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/22/13	RLD 7/15/13	VOCO4 3917
8260 BFB Std. RD 7/23/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	8/23/13	RLD 7/23/13	VOCO4 3918
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	320 ul of (1) into 10 mL FV of MEOH	80 ug/ml	8/23/13	RLD 7/23/13	VOCO4 3919
8260 VMS3 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	64 uL of (1) into 10 mL FV of MEOH	16 ug/ml	8/23/13	RLD 7/23/13	VOCO4 3920
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/30/13	RLD 7/23/13	VOCO4 3921
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/30/13	RLD 7/23/13	VOCO4 3922
8260 ICV/ Spiking Std. RD 7/30/13	(1) V660 2000ug/ml (2) V666 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/6/13	RLD 7/30/13	VOCO4 3923
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V665 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/6/13	RLD 7/30/13	VOCO4 3924

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/3/13	RLD 5/27/13	VOCO4 3894
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/3/13	RLD 5/27/20	VOCO4 3895
8260 TBA ICV/Spiking Std.	(1) VOC04 3894 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	6/27/13	RLD 5/27/13	VOCO4 3896
8260 TBA CCV/Calib. Std.	(1) VOC04 3895 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	6/27/13	RLD 5/27/13	VOCO4 3897
8260 ICV/ Spiking Std. 6/4/13	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/11/13	RLD 6/4/13	VOCO4 3898
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/11/13	RLD 6/4/13	VOCO4 3899
8260 ICV/ Spiking Std. 6/11/13	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/18/13	RLD 6/11/13	VOCO4 3900
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/18/13	RLD 6/11/13	VOCO4 3901
8260 ICV/ Spiking Std. 6/18/13	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/25/13	RLD 6/18/13	VOCO4 3902
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	6/25/13	RLD 6/18/13	VOCO4 3903
8260 BFB Std. 6/25/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	7/25/13	RLD 6/25/13	VOCO4 3904
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	320 ul of (1) into 10 mL FV of MEOH	80 ug/ml	7/25/13	RLD 6/25/13	VOCO4 3905
8260 VMS3 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	0.064 mL of (1) into 10 mL FV of MEOH	16 ug/ml	7/25/13	RLD 6/25/13	VOCO4 3906
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/2/13	RLD 6/25/13	VOCO4 3907
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/2/13	RLD 6/25/13	VOCO4 3908

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 ICV/ Spiking Std. RD 4/18/13	(1) V660 2000ug/ml (2) V659 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/25/13	RLD 4/18/13	VOCO4 3878
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V658 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/25/13	RLD 4/18/13	VOCO4 3879
8260 BFB Std. RD 4/25/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	5/25/13	RLD 4/25/13	VOCO4 3880
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	320 ul of (1) into 10 mL FV of MEOH	80 ug/ml	5/25/13	RLD 4/25/13	VOCO4 3881
8260 VMS3 ISTD/SSTD	(1) VOC04 3881 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	5/25/13	RLD 4/25/13	VOCO4 3882
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V659 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	5/2/13	RLD 4/25/13	VOCO4 3883
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V658 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	5/2/13	RLD 4/25/13	VOCO4 3884
8260 ICV/ Spiking Std. RD 5/9/13	(1) V660 2000ug/ml (2) V659 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	5/9/13	RLD 5/2/13	VOCO4 3885
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V658 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	5/9/13	RLD 5/2/13	VOCO4 3886
8260 ICV/ Spiking Std. RD 5/19/13	(1) V660 2000ug/ml (2) V659 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	5/20/13	RLD 5/13/13	VOCO4 3887
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V658 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	5/20/13	RLD 5/13/13	VOCO4 3888
8260 ICV/ Spiking Std. RD 5/20/13	(1) V660 2000ug/ml (2) V659 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	5/27/13	RLD 5/20/13	VOCO4 3889
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V658 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	5/27/13	RLD RD 5/20/13 5/20/13	VOCO4 3890
8260 BFB Std. RD 5/24/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	6/25/13	RLD 5/26/13	VOCO4 3891
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	320 ul of (1) into 10 mL FV of MEOH	80 ug/ml	6/25/13	RLD 5/26/13	VOCO4 3892
8260 VMS3 ISTD/SSTD	(1) VOC04 3892 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	6/25/13	RLD 5/26/13	VOCO4 3893

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 TBA ICV/Spiking Std.	(1) VOC04 3860 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	3/26/13	RLD 2/26/13	VOCO4 3862
8260 TBA CCV/Calib. Std.	(1) VOC04 3861 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	3/26/13	RLD 2/26/13	VOCO4 3863
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/13/13	RLD 3/6/13	VOCO4 3864
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/13/13	RLD 3/6/13	VOCO4 3865
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/20/13	RLD 3/13/13	VOCO4 3866
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/20/13	RLD 3/13/13	VOCO4 3867
8260 BFB Std.	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	4/25/13	RLD 3/25/13	VOCO4 3868
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	4/25/13	RLD 3/25/13	VOCO4 3869
8260 VMS3 ISTD/SSTD	(1) VOC04 3869 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	4/25/13	RLD 3/25/13	VOCO4 3870
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	4/1/13	RLD 3/25/13	VOCO4 3871
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	4/1/13	RLD 3/25/13	VOCO4 3872
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/10/13	RLD 4/3/13	VOCO4 3873
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/10/13	RLD 4/3/13	VOCO4 3874
PVOC/GRO ISTD/SSTD	V639 - 2000 ug/mL V648 - 2000 ug/mL	B&J MEOH DD471	1 mL of each into 25 mL of MeOH	80 ug/mL	10/03/13	BMS 04/03/13	VOC04 3875
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/18/11	RLD 4/11/13	VOCO4 3876
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/18/11	RLD 4/11/13	VOCO4 3877

FTL 08-13

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep	Final Concentration	Expiration Date	Prepped By Date	ID #
8015 CCV/Calib. Std.	V614 - 50000 ug/mL	B&J MEOH DD471	0.2 mL of std. into 10 mL of MeOH	1000 ug/mL	07/28/13	BMS 01/28/13	VOC04 3845
8015 ICV/Spiking Std.	V632 - 5000 ug/mL	B&J MEOH DD471	1 mL of std. into 5 mL of MeOH	1000 ug/mL	07/28/13	BMS 01/28/13	VOC04 3846
AK CCV/Calib. Std.	V630 - 50000 ug/mL	B&J MEOH DD471	0.2 mL of std. into 10 mL of MeOH	1000 ug/mL	07/28/13	BMS 01/28/13	VOC04 3847
8260 BFB Std. RD 1/31/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	2/28/13	RLD 1/31/13	VOCO4 3848
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	2/28/13	RLD 1/31/13	VOCO4 3849
8260 VMS3 ISTD/SSTD	(1) VOC04 ~~3831~~ 3849 80ug/ml RD 1/31/13	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	2/28/13	RLD 1/31/13	VOCO4 3850
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/7/13	RLD 1/31/13	VOCO4 3851
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/7/13	RLD 1/31/13	VOCO4 3852
8260 ICV/ Spiking Std. RD 2/7/13	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/14/13	RLD 2/7/13	VOCO4 3853
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/14/13	RLD 2/7/13	VOCO4 3854
8260 ICV/ Spiking Std. RD 2/18/13	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/25/13	RLD 2/18/13	VOCO4 3855
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/25/13	RLD 2/18/13	VOCO4 3856
8260 BFB Std. RD 2/26/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	3/26/13	RLD 2/26/13	VOCO4 3857
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	3/26/13	RLD 2/26/13	VOCO4 3858
8260 VMS3 ISTD/SSTD	(1) VOC04 3858 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	3/26/13	RLD 2/26/13	VOCO4 3859
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	3/5/13	RLD 2/26/13	VOCO4 3860
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	3/5/13	RLD 2/26/13	VOCO4 3861

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 BFB Std. RD 12/31/12	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	1/31/13	RLD 12/31/12	VOCO4 3830
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	1/31/13	RLD 12/31/12	VOCO4 3831
8260 VMS3 ISTD/SSTD	(1) VOC04 3831 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	1/31/13	RLD 12/31/12	VOCO4 3832
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/7/13	RLD 12/31/12	VOCO4 3833
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/7/13	RLD 12/31/12	VOCO4 3834
PVOC/GRO ISTD	V639 - 2000 ug/mL 01/03/13 BMS	B&J MEOH DD471	1 mL of std. into 25 mL of MeOH	80 ug/mL	07/03/13	BMS 01/03/13	VOC04 3835
PVOC/GRO SSTD	V610 - 2000 ug/mL	B&J MEOH DD471	0.5 mL of std. into 10 mL of MeOH	100 ug/mL	07/03/13	BMS 01/03/13	VOC04 3836
PVOC/GRO CCV/Calib. Std.	V613 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	07/03/13	BMS 01/03/13	VOC04 3837
PVOC/GRO ICV/Spiking Std.	V631 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	07/03/13	BMS 01/03/13	VOC04 3838
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml 01/07/13 BMS (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/14/13	RLD 1/7/13	VOCO4 3839
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/14/13	RLD 1/7/13	VOCO4 3840
8260 ICV/ Spiking Std. RD 1/23/13	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/22/13	RLD 1/15/13	VOCO4 3841
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/22/13	RLD 1/15/13	VOCO4 3842
8260 ICV/ Spiking Std. RD 1/23/13	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/30/13	RLD 1/23/13	VOCO4 3843
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/30/13	RLD 1/23/13	VOCO4 3844

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V6666	8260 Addition	SPEX	VO-CTWI-12	C1130701014	1000-10,000 ug/mL 09/29/13	MeOH	07/08/13 BMS	2 x 1mL
V6667	VOC Mix	ULTRA	DWM-588	CK-1488	2000 ug/mL 06/30/16	MeOH	07/08/13 BMS	4 x 1mL
V6668	8260 Istd./Sstd. Mix	ULTRA	STM-540	CK-2154	2500 ug/mL 07/31/16	MeOH	07/08/13 BMS	4 x 1mL
V6669	Fluorobenzene	ULTRA	STS-160	CE-4128A	2000 ug/mL 01/31/15	MeOH	07/08/13 BMS	4 x 1mL
V6670	Unleaded Gasoline	ULTRA	RGO-601	CH-0979	5000 ug/mL 04/30/15	MeOH	07/08/13 BMS	4 x 1mL
V6671	8260 Special Addition	SPEX	VO-CTWI-5	C1130726021	1000-50000 ug/mL 01/22/14	MeOH	08/02/13 BMS	2 x 1mL
V6672	8260 Special Addition	SPEX	VO-CTWI-5	C1130726023	1000-50000 ug/mL 01/22/14	MeOH	08/02/13 BMS	2 x 1mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V647	Allyl chloride	SPEX	S-210	R1100624004	1000 ug/mL 06/23/13	MeOH	10/15/12 BmS	1 mL
V648	α,α,α-Trifluorotoluene	ULTRA	STS-220N	CE-1903A	2000 ug/mL 07/31/14	MeOH	12/03/12 BmS	4 x 1
V649	8260 Addition	SPEX	VO-CTWI-4	C1121219008	1000-10000 ug/mL 03/19/13	MeOH	12/27/12 BmS	2 x 1
V650	8260 Addition	SPEX	VO-CTWI-4	C1121219009	1000-10000 ug/mL 03/19/13	MeOH	12/27/12 BmS	2 x 1
V651	Pvoc/GRO Mix	RESTEK	30095	A090307	1000 ug/mL 09/19	MeOH	01/09/13 BmS	2 x 1
V652	Pvoc/GRO Mix	RESTEK	30095	A091998	1000 ug/mL 12/19	MeOH	01/09/13 BmS	2 x 1
V653	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130107010	1000-50000 ug/mL, 7/6/13	MeOH	1/15/13 RD	2 x 1 ml
V654	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130107011	1000-50000 ug/mL, 7/6/13	MeOH	1/15/13 RD	2 x 1 mL
V655	8260 VOC Mix	Ultra Scientific	DLWM-588	CJ-4427	2000 ug/mL, 1/31/16	MeOH	1/15/13 RD	4 x 1 mL
V656	Unleaded Gas Composite	RESTEK	30205	A087768	50,000 ug/mL 05/19	MeOH	02/01/13 BmS	1 mL
V657	Unleaded Gas Composite	RESTEK	30205	A092370	50,000 ug/mL 01/20	MeOH	02/01/13 BmS	1 mL
V658	8260 Addition (new mix)	SPEX-Certiprep	VO-CTWI-12	C1130305009	1000-10000 ug/mL 6/3/13	MeOH	3/12/13 RD	2 x 1 ml (Formerly VO-CTWI-4)
V659	8260 Addition (New mix)	SPEX-Certiprep	VO-CTWI-12	C1130305010	1000-10000 ug/mL 6/3/13	MeOH	3/12/13 RD	2 x 1 mL
V660	VOC Mix (8260)	Accustandard	M-502-10X	212071035	2000 ug/ml 7/25/15	MeOH	3/19/13 RD	5 x 1 mL
V661	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130327006	1000-50000 ug/mL 9/23/13	MeOH	4/3/13 RD	3 x 1 mL
V662	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130327007	1000-50000 ug/mL 9/23/13	MeOH	4/3/13 RD	3 x 1 mL
V663	8260 Addition	SPEX	VO-CTWI-12	C1130507004	1000-10000 ug/mL 08/05/13	MeOH	05/14/13 BmS	2 x 1 mL
V664	8260 Addition	SPEX	VO-CTWI-12	C1130507005	1000-10000 ug/mL 08/05/13	MeOH	05/14/13 BmS	2 x 1 mL
V665	8260 Addition	SPEX	VO-CTWI-12	C1130701013	1000-10,000 ug/mL 09/29/13	MeOH	07/08/13 BmS	2 x 1 mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V628	8260 Spec Additives mix	SPEX	VO-CTWI-5	111112A018	1000-50000ug/mL 5/24/12	MeOH	3/12/12 AP6	2x1 -2
V629	4bromo Trifluorotoluene	RESTEK	30083	A084034	10,000 ug/mL 10/2020	MeOH	03/26/12 BMS	2x1
V630	Unleaded Gas Composite	RESTEK	30205	A081012	50,000 ug/mL 05/2018	MeOH	03/26/12 BMS	2x1
V631	PVOC/GRO Mix	ULTRA	UST-100	CH-2581	1000 ug/mL 09/30/2014	MeOH	04/17/12 BMS	4x1
V632	Unleaded Gas Std.	ULTRA	RGO-601	CH-0979	5000 ug/mL 04/30/2015	MeOH	04/17/12 BMS	2x1
V633	8260 Additives mix	SPEX	VO-CTWI-4	C112041001B	1000-10000ug/mL 7/9/12	MeOH	4/18/12 AP6	2x1
V634	8260 Additives mix	SPEX	VO-CTWI-4	C112041001A	1000-10000ug/mL 7/9/12	MeOH	4/18/12 AP6	2x1
V635	8260 Special Addition	SPEX	VO-CTWI-5	C1120620003	1000-50,000 ug/mL 12/17/12	MeOH	06/27/12 BMS	2x1
V636	8260 Special Addition	SPEX	VO-CTWI-5	C1120620004	1000-50,000 ug/mL 12/17/12	MeOH	06/27/12 BMS	2x1
V637	8260 Addition	SPEX	VO-CTWI-4	C1120703021	1000-10,000 ug/mL 10/01/12	MeOH	07/13/12 BMS	2x1
V638	8260 Addition	SPEX	VO-CTWI-4	C1120703022	1000-10,000 ug/mL 10/01/12	MeOH	07/13/12 BMS	2x1
V639	Fluorobenzene	ULTRA	STS-160	CE-4128A	2000 ug/mL 01/31/15	MeOH	09/10/12 BMS	4x1
V640	VOC Mix (8260)	ULTRA	DWM-588	CJ-3132	2000 ug/mL 09/30/15	MeOH	09/10/12 BMS	4x1
V641	VOC Mix (8260)	AccuStandard	M-502-10X	212061172	2000 ug/mL 06/27/15	MeOH	09/10/12 BMS	5x1
V642	8260 Special Addition	SPEX	VO-CTWI-5	C1120910009	1000-50000 ug/mL 03/09/13	MeOH	09/17/12 BMS	3x1
V643	8260 Special Addition	SPEX	VO-CTWI-5	C1120910010	1000-50000 ug/mL 03/09/13	MeOH	09/17/12 BMS	3x1
V644	8260 Addition	SPEX	VO-CTWI-4	C1120920011	1000-10,000 ug/mL 12/19/12	MeOH	09/28/12 BMS	2x1
V645	8260 Addition	SPEX	VO-CTWI-4	C1120920012	1000-10000 ug/mL 12/19/12	MeOH	09/28/12 BMS	2x1
V646	Acetonitrile	SPEX	S-145	C1100518007	1000 ug/mL 05/17/13	MeOH	10/15/12 BMS	1

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If muitiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V609	Fluorobenzene	ULTRA	STS-160	CE-4128	2000 ug/mL 12/31/12	MeOH	09/19/11 BMS	4x1
V610	α,α,α-Trifluorotoluene	ULTRA	STS-220N	CE-1903A	2000 ug/mL 07/31/14	MeOH	09/19/11 BMS	4x1
V611	8260 SPEX Add.	SPEX	VO-CTWI-5	C1110914008	1000-10,000 2000 ug/mL 3/12/12	meoH	9/21/11 AP6	2x1
V612	8260 SPEX Add	SPEX	VO-CTWI-5	C1110914009	1000-10,000 2000 ug/mL 3/12/12	meoH	9/21/11 AP6	2x1
V613	PVOC/GRO Mix	RESTEK	30095	A072677	1000 ug/mL 3/17	MeOH	09/30/11 BMS	4x1
V614	Unleaded Gasoline	RESTEK	30205	A076842	50,000 ug/mL 10/17	MeOH	09/30/11 BMS	2x1
V615	SPEX SAE Add	SPEX	VO-CTWI-5	C1110914008	1000-10,000 2000 ug/mL 3/12/12	meoH	11/23/11 AP6	1x1
V616	8260 SPEX Add	SPEX	VO-CTWI-5	C1111123007	1000-10,000 2000 ug/mL 5/21/12	meoH	12/6/11 AP6	2x1
V617	8260 SPEX Add	SPEX	VO-CTWI-5	C1111129018	1000-10,000 2000 ug/mL 5/27/12	meoH	12/6/11 AP6	2x1
V618	Carbon Dioxide	Air Gas	X02HE99C37A1894	Cylinder # XE0016953	10,000 ppmV 12/2014	1% CO_2/He	RD 12/19/11	1 cylinder @ 28.7 CF
V619	Methane, Ethene, Ethane Std.	Airgas	X04HE99C353Q80	Cylinder # 4774237	200 ppmV 12/2014	Helium	BMS 12/27/11	1 cylinder @ 31.6 CF
V620	8260 ISTD/SSTD mix	ULTRA	STM-540	CH-2681	2500 ug/mL 9/30/14	meoH	AP6 1/4/12	4x1
V621	Methane, Ethene, Ethane Std.	PRAXAIR	HE ET200EMIC-AQ	917830501	200 ppm 01/11/13	Helium	BMS 01/11/12	Re-certified (V488)
V622	8260 Add.	SPEX	VO-CTWI-4	T1120105008	1000-10000 ug/mL 4/4/12	meoH	AP6 1/13/12	2x1
V623	8260 Add.	SPEX	VO-CTWI-4	T1120105009	1000-10000 ug/mL 4/4/12	meoH	AP6 1/13/12	2x1
V624	8260 VOC Mix	AccuStandard	M-502-10X	211071302	2000 ug/mL 8/1/14	MeOH	BMS 1/23/12	5x1
V625	8260 VOC Mix	ULTRA	DWM-588	CH-3655	2000 ug/mL 12/31/14	MeOH	BMS 02/24/12	4x1
V626	Carbon Dioxide Std.	Linde	5764 Mix	08499A7020ZE	10,000 ppm 03/02/13	Helium	BMS 03/02/12	Re-certified (CTLV 392)
V627	8260 Special Acetone mix	SPEX	VO-CTWI-5	C1111123007	1000-50000 ug/mL 5/21/12	meoH	AP6 3/12/12	2x1

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V590	Tetrachloroethene	ULTRA	EPA-1049	CG-3919	5000 ug/mL 12/31/14	MeOH	02/09/11 BMS	1
V591	8260 Addition	SPEX	VO-CTWI-4	C1110210015	1000 ug/mL 08/14/11	MeOH	02/18/11 BMS	2x1
V592	8260 Addition	SPEX	VO-CTWI-4	C1110210016	1000 ug/mL 08/14/11	MeOH	02/18/11 BMS	2x1
V593	8260 VOC mix	AccuStd.	M-502-10X	211011188	2000 ug/mL 2/9/14	meoH	2/28/11 APG	~~5x1~~ 5x1
V594	8260 Special Add'n	SPEX	VO-CTWI-5	C1110222024	1000 ug/mL 8/28/11	meoH	3/4/11 APG	2x1
V595	8260 Special Add'n	SPEX	VO-CTWI-5	C1110222025	1000 ug/mL 8/28/11	meoH	3/4/11 APG	2x1
V596	Unleaded Gasoline Std.	RESTEK	30096	A077232	5000 ug/mL 11/17	MeOH	04/08/11 BMS	2x1
V597	Unleaded Gasoline Std.	ULTRA	RGO-601	CE-3569	5000 ug/mL 8/12	MeOH	04/15/11 BMS	2x1
V598	8260 Special Add'n	SPEX	VO-CTWI-5	C1110222024	1000 ug/mL 10/26/11	MeOH	05/03/11 BMS	2x1
V599	8260 Special Add'n	SPEX	VO-CTWI-5	C1110222025	1000 ug/mL 10/26/11	MeOH	05/03/11 BMS	2x1
V600	8260 Addition	SPEX	VO-CTWI-4	C1110210015	1000 ug/mL 11/02/11	MeOH	05/11/11 BMS	2x1
V601	8260 Addition	SPEX	VO-CTWI-4	C1110210016	1000 ug/mL 11/02/11	MeOH	05/11/11 BMS	2x1
V602	8260 Addition	SPEX	VO-CTWI-4	C1110520004	1000 ug/mL 8/21/11	meoH	5/26/11 APG	2x1
V603	8260 Add.	SPEX	VO-CTWI-4	C1110520005	1000 ug/mL 8/21/11	meoH	5/26/11 APG	2x1
V604	07/14/11 Reagent Alcohol	Fisher	A995-4	110858	HPLC Grade 91% 7/14/12	91%	7/14/11 RD	4L
V605	Retention Time Marker	Restek	30483	~~A0638~~ A076381 ~~7/14/11~~	1000 ug/mL 7/14/11 9/2017	MeOH	7/14/11 RD	1 ml
V606	Unleaded Gasoline Composite Std	Restek	30205	A076842	5000 ug/mL 10/2017	MeOH	7/14/11 RD	1 ml
V607	8260 VOC mix	Ultra Sci	DWM-588	CH-1897	2000 ug/mL 7/31/14	meoH	7/26/11 APG	4x1
V608	Reagent Alcohol	Fisher	A995-4	111670	HPLC Grade 91% 8/30/12	91%	8/30/11 RD	2x4L

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)
1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V571	8260 Special Addition	SPEX	XQ-5500-R1	C1100702005	1000 ug/mL 1/3/11	MeOH	7/12/10 BmS	3x1
V572	8260 Special Addition	SPEX	XQ-5500-R1	C1100702006	1000 ug/mL 1/3/11	MeOH	7/12/10 BmS	3x1
V573	8260 ISTD	Restek	30241	A072440	2500 ug/mL 1/15	meoh	7/16/10 APL	4x1
V574	PVOC/GRO mix	Restek	30095	A066306	1000 ug/mL 4/16	meoH	7/16/10 APL	4x1
V575	124-TMB 2-methylpentane	SPEX	VO-CTWI-1	T1100910001	1000 ug/mL 9/9/13	MeOH	9/14/10 BmS	4x1
V576	Fluorobenzene	ULTRA	~~CE-4~~ STS-160	CE-4128	2000 ug/mL 12/12	MeOH	9/27/10 BmS	4x1
V577	1,2-dichlorobenzene-d4	ULTRA	STS-210	CG-1939	2000 ug/mL 6/14	MeOH	9/27/10 BmS	4x1
V578	~~SPEX~~ 2-methoxypropane	SPEX	S-2732	R1040713002	1000 ug/mL 10/13	meoH	10/27/10 APL	2x1
V579	8260 Addition	SPEX	VO-CTWI-4	C1101029006	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V580	8260 Addition	SPEX	VO-CTWI-4	C1101029007	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V581	8260 Special Addition	SPEX	VO-CTWI-5	C1101101002	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V582	8260 Special Addition	SPEX	VO-CTWI-5	C1101101003	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V583	4-Bromofluorobenzene	ULTRA	STS-110N	CF-5373	2000 ug/mL 1/14	MeOH	11/19/10 BmS	4x1
V584	~~std~~-Trifluorotoluene	ULTRA	STS-220N	CE-1903	2000 ug/mL 6/12	MeOH	11/19/10 BmS	4x1
V585	8260 Istd Mix	RESTEK	30241	A072440	2500 ug/mL 1/15	MeOH	11/30/10 BmS	3x1
V586	8260 Sstd. Mix	RESTEK	30240	A076124	2500 ug/mL 8/15	MeOH	11/30/10 BmS	3x1
V587	PVOC/GRO Mix	ULTRA	UST-100	CF-3160	1000 ug/mL 8/12	MeOH	01/25/11 BmS	4x1
V588	~~std~~-Trifluorotoluene	ULTRA	STS-220N	CE-1903	2000 ug/mL 6/12	MeOH	01/25/11 BmS	4x1
V589	Fluorobenzene	ULTRA	STS-160	CE-4128	2000 ug/mL 12/12	MeOH	01/25/11 BmS	4x1

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)
1 = If multiple analytes and all of the concentrations vary, mark VARIES.

V GRO 8015 QSM Analytical Run
96940 on 08/23/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	342871						V GRO 8015 QSM				
				CCV				0			
	342875						V GRO 8015 QSM				
				LCSW				0			
	342863						V GRO 8015 QSM				
				MRLW				0			
	342876						V GRO 8015 QSM				
				MBW				0			
99335	339561	083SB-0023-0001-ER	08/15/2013 0930		ECC	RVAAP	GRO 8015 QSM		GW	4	
	342873						V GRO 8015 QSM				
				CCV				0			
	342874						V GRO 8015 QSM				
				CCB				0			
	342858						V GRO 8015 QSM				
				MRLW				0			
	342856						V GRO 8015 QSM				
				MDLW				0			
	342872						V GRO 8015 QSM				
				CCV				0			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Sequence Summary Report

Sequence Filename: C:\Instarch\PVOC2\Sequences\082113-8015W.seq
Instrument: PVOC2 (Offline)
Processing Date: Aug 22, 2013 20:25:16

'Run Number	Sample ID	Data Filename	Method Filename	Run Time
1	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 09:03:26
2	96941,RTW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 09:45:07
3	96941,CCV,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 10:28:13
4	96941,LCSW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 11:11:16
5	96940,MRLW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 11:53:20
6	96941,MBW,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 12:35:42
7	96940,339561,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 13:18:24
8	96941,339775,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 14:01:32
9	96941,339776,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 14:44:24
10	96941,339777,1,pH7	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 15:27:58
11	96942,340199,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 16:10:34
12	96942,340201,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 16:53:17
13	96942,340203,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 17:36:14
14	96941,339774,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 18:19:01
15	96942,340200,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 19:01:00
16	96942,340204,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 19:43:00
17	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 20:25:29
18	96941,RTW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 21:07:25
19	96941,CCV,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 21:49:58
20	96941,CCB,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 22:32:36
21	96941,MSW339775,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 23:14:39
22	96941,MSDW339775,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 21, 2013 23:57:52
23	96942,MSW340203,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 00:40:17
24	96942,MSDW340203,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 01:22:19
25	96940,MRLW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 02:04:57
26	96940,MDLW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 02:47:38
27	96941,RTW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 03:30:31
28	96941,CCV,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 04:13:35
29	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 10:28:43
30	96941,RTW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 11:11:01
31	96941,CCV,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 11:53:56
32	96941,CCB,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 12:36:18
33	96941,340912,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 13:19:34
34	96941,340914,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 14:03:10
35	96941,340915,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 14:46:00
36	96941,340917,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 15:28:14
37	96941,340913,1,pH6	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 16:11:01
38	96941,340916,10,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 16:53:20
39	96941,340916,1,pH<2	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 17:35:16
40	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 18:17:53
41	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 19:00:16
42	96941,RTW,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 19:42:19
43	96941,CCV,	C:\Instarch\PVOC2\Data\082...	C:\Instarch\PVOC2\Methods\8015p2w011...	Aug 22, 2013 20:25:16

PVOC/GRO ISTD/SSTD	80 ug/L	VOC04 3911
8015 GRO CCV/Calib. STD	1000 ug/L	VOC04 3927
8015 GRO ICV/Spiking STD	1000 ug/L	VOC04 3928
8015 RTW STD	1000 ug/L	V575

	Method: GC (PID/FID) US-EPA SW846 Method 8015 (GRO)/8020 (PVOC/BETX, non-WI), WI- GRO (PVOC/GRO) and SW846 8021B					
LIMS Run #(s)	**Analysis Date (s)**	**Analyst / Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**	**Instrument**
96940, 96941, 96942	08/21/2013, 08/22/2013	BMS	RLD	8/23/2013	Yes	PVOC2

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	**Analyst Review**		**Independent Review**		Comments: (indicate reference to an attachment if necessary)
1. INITIAL CALIBRATION (ICAL)		Yes	No	Yes	No	
a. Was the initial calibration performed using a minimum of five concentration levels?	Lowest standard at or near RL	Yes		Yes		If No, recalibrate
b. For each analyte/component is the variation between calibration response factors for all concentration levels <20% RSD or is r^2 ³ .99 or r ³ .995 for the regression line?	RSD <20% or r^2 ³ .99 or r ³ .995	Yes		Yes		If No, recalibrate
c. Are the identification and date of the ICAL listed on the printout (or PDF) of the analytical run and in the method file?	ID# and date of ICAL listed	Yes		Yes		
d. Was a second source Initial Calibration Verification (ICV) analyzed after the ICAL?	Separate supplier or Lot #	Yes		Yes		If No, analyze ICV prior to sample analyses.
e. Were the recoveries for each analyte/group in the ICV within required limits?	%R 85–115 for Methods 8015B/8020/8021B, 80-120 for WI-GRO	Yes		Yes		If No, reanalyze ICV. If still No then necessary maintenance and recalibration should be performed.
f. Was an Initial Calibration Blank (ICB) analyzed?		Yes		Yes		If No, reanalyze ICB before sample analyses.
g. Were the ICB results for all target analytes/components less than the reporting limit (RL)?	<RL or < program/project specific	Yes		Yes		
2. CONTINUING CALIBRATION VERIFICATION (CCV)						
a . Were CCVs analyzed at the beginning of each analytical shift and at end of the sequence/run?	Every 12 hour shift for 8015B/8020, or per 20 samples for WI GRO (PVOC)	Yes		Yes		If No, then necessary maintenance and possible recalibration should be performed. Affected samples must be reanalyzed.
b. Were the recoveries for each analyte/component in the CCV within acceptance criteria?	85-115% for Methods 8015/8020, 80-120% for WI-GRO	Yes		Yes		If No, then necessary maintenance and possible recalibration should be performed. Affected samples must be reanalyzed for compounds exceeding CCV criteria.
3. METHOD BLANKS (MB)						
a. Was a method blank (MB) analyzed?	1 / 20 / medium with results < the RL or program/project specific (DoD-QSM: <1/2 the RL).	Yes		Yes		If No, reanalyze sample batch with an associated MB.
b. Were the MB results for all analytes/components less than reporting limit?	All target analytes/components <RL or within program/project specific limits	Yes		Yes		If analytes/components were detected in the MB with no associated positives in the samples, no further action is needed. If analyte detects are greater than the RL with associated positives in the samples, flag associated positives with a "B" qualifier.
4. LABORATORY CONTROL SPIKE (LCS) and/or LABORATORY CONTROL SPIKE DUPLICATES (LCSD)	LCSD required w/ WI-GRO soils					
a. Was a LCS and/or LCSD analyzed at a frequency of one per 20 samples of similar medium (liquid or solid) with the LCS before and the LCSD after sample analyses for WI-GRO soils.	1 / 20 / matrix or program/project specific	Yes		Yes		
b. Were LCS (and LCSD if applicable) recoveries for all analytes within the acceptance criteria?	Default = 70-130%, WI-GRO (PVOC) = 80-120%, or In-house generated or program/project specific limits	Yes		Yes		If No, Reanalyze LCS or LCSD to confirm no preparation error.
c. If LCS or LCSD recoveries exceed acceptance criteria, was the LCS or LCSD reanalyzed in an effort to eliminate the possibility of a preparation error?						If LCS or LCSD recoveries exceed acceptance criteria again, investigate and correct problem and reanalyze affected samples, if possible. If LCS and LCSD recoveries exceed criteria after sample reanalysis and if samples are not reanalyzed, See Below: *If LCS or LCSD recovery is high with no associated positives in samples, no further action needed. *If LCS or LCSD recovery is high with associated positives in samples, flag associated positives "Q". *If LCS or LCSD recoveries are low, flag all affected analytes/components within the batch "Q".
5. MATRIX SPIKE (MS)/ MATRIX SPIKE DUPLICATES (MSD)						
a. Was a matrix spiked sample (MS) and duplicate matrix spiked sample (MSD) analyzed at the required frequency per matrix?	1 / 20 / matrix or program/project specific frequency (n/a for WI-PVOC/GRO soils)	Yes		Yes		If No, analyze a MS/MSD from the specific sample batch.
b. Were MS/MSD recoveries for all analytes within acceptance criteria?	Default =70-130%, WI-GRO (PVOC) = 80-120%, or In-house generated or program/project specific limits	Yes		Yes		If No, See Below: *If MS/MSD recoveries are below acceptable limits, and unspiked sample has detects or no detects for affected analytes, flag affected analytes "M". *If MS/MSD recoveries are above acceptable limits, and the unspiked sample has no detects for affected analytes, no action is required. *If MS/MSD recoveries are outside of acceptable limits, and unspiked sample has detects for affected analytes, flag affected analytes "M" in parent sample.

6. PRECISION						
c. Is the relative percent difference (RPD) for each analyte between duplicate QC samples (i.e. LCS/LCSD), or for each MS/MSD within the acceptance criteria?	Default = 20 %, WI-GRO (PVOC) = 20%, or In-house generated or program/project specific limits	Yes		Yes		If No, "Y" flag all affected compounds on every sample in the analytical batch if the precision problem is between an LCS and LCSD, and only the affected compound in the unspiked sample if the precision failure is between the MS and MSD.
7. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If No, document any discrepancies. Manual integrations should include before and after chromatography. Manual integrations should be signed and dated.
b. Do internal standard (IS) responses in each sample conform to acceptance criteria when compared to IS responses in the previous CCV for methods 8020, 8021, and WI-PVOC?	50-200 % or program/project specific	N/A		N/A		If No, reanalyze affected samples
c. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?	Default =80-120%, WI –PVOC = 80-120%, or In-house generated or program/project specific limits		No		No	If surrogate recoveries were low, reanalyze affected sample, If surrogate recoveries were high, See Below: WI PVOC samples, no further action to be taken (assume matrix affect). 8015B, 8021B and Non-WI PVOC samples, dilute & reanalyze sample to minimized matrix affect. Sample results reported with failing surrogate recoveries should be qualified with an "S" flag.
d. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed or reanalyzed using a smaller sample aliquot? Affected analyte detects should remain above the limit of quantitation (LOQ) after reanalysis.		Yes		Yes		If No, dilute and reanalyze samples for compounds exceeding calibration range.
e. Do all reported hits have retention times (RT) within the RT windows determined by the ICV/CCV?	RTW = ± 3 SD of absolute. RT for WI-PVOC & Method 8020, 0.1 min. before onset of MtBE and 0.1 min. after Naphthalene. for WI-GRO	Yes		Yes		WI GRO must be qualified with an "L" flag if significant peaks are found outside of the GRO retention time window.
f. If applicable, was retention time window established for 8015-GRO using 2-Methylpentane and 1,2,4-Trimethylbenzene at the beginning of each 12-hour shift?	Lower RT limit for 2-Methylpentane to the upper RT limit for 1,2,4-TMB	Yes		Yes		If No, reanalyze affected samples with retention time standards bracketing analyses.
g. Were all samples adequately preserved and analyzed within holding time?	Analysis within 14 days of sampling for soils and preserved waters, 7 days for unpreserved waters, and 21 days for MeOH preserved PVOC/GRO soils	Yes		Yes		If No, see below: Qualify liquid samples improperly preserved with a "T" flag if not analyzed within 7 days. Qualify WI solid samples with a "W" flag if the MeOH/Sample ratio is greater than 20%. Qualify samples analyzed past hold time with an "H" flag.
8. RECORDS AND REPORTING						
a. Is a sequence run file present in the raw data file?		Yes		Yes		If No, include sequence run with raw data.
b. Is the data initialed and dated by analyst?	Analysis Run sheet is initialed & dated by the analyst processing the raw data.	Yes		Yes		If No, if no obtain initials and date from analyst.
c. Do all values, units, etc. listed match the raw data and associated calculations and records?		Yes		Yes		If No, data should be reprocessed to include correct units and results.
d. Were the 8021 PID results confirmed?	Second dissimilar detector or column confirmation results ≤ 40% Diff.	Yes		Yes		If Yes, qualify reported data with a "P" flag if confirmation results exceed acceptable criteria. If No, confirm PID results with FID results or reanalyze samples using a dissimilar column. If detects do not confirm by second detector or column, report initial results as non detects (<RL).
e. Has the data been electronically transferred to the LIMS and were the applicable qualifiers assigned?		Yes		Yes		If No, recapture data. Manual entries into LIMS must be documented to ensure proper review.
f. Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		If No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
g. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		Yes		Yes		If No, include proper qualification and nonconformity documentation.

Sequence Summary Report

Sequence Filename: C:\Instarch\PVOC2\Sequences\011413-8015icw.seq
Instrument: PVOC2 (Offline)
Processing Date: Jan 14, 2013 19:33:05

'Run Number	Sample ID	Data Filename	Method Filename	Run Time
1	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 10:33:52
2	8015 RTW	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 11:16:35
3	8015 WATER LIN. PT 1	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 11:57:14
4	8015 WATER LIN. PT 2	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 12:39:19
5	8015 WATER LIN. PT 3	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 13:22:26
6	8015 WATER LIN. PT 4	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 14:03:11
7	8015 WATER LIN. PT 5	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 14:44:04
8	8015 WATER LIN. PT 6	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 15:25:29
9	8015 WATER LIN. PT 7	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 16:06:07
10	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 16:48:42
11	8015 RTW	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 17:28:54
12	8015 WATER ICV	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 18:10:54
13	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 18:52:21
14	8015 WATER ICB	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 14, 2013 19:33:05

PVOC/GRO ISTD/SSTD	80 ug/L	VOC04 3816
8015 GRO CCV/Calib. STD	1000 ug/L	VOC04 3778
8015 GRO ICV/Spiking STD	1000 ug/L	VOC04 3779
8015 RTW STD	1000 ug/L	V575

Sequence Summary Report

Sequence Filename: C:\Instarch\PVOC2\Sequences\011013pvocicw.seq
Instrument: PVOC2 (Offline)
Processing Date: Jan 10, 2013 18:28:03

'Run Number	Sample ID	Data Filename	Method Filename	Run Time
1	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 09:57:24
2	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 10:33:25
3	PVOC WATER LIN. PT 1	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 10, 2013 11:09:44
4	PVOC WATER LIN. PT 2	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 10, 2013 11:46:30
5	PVOC WATER LIN. PT 3	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 10, 2013 12:23:19
6	PVOC WATER LIN. PT 4	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 10, 2013 13:00:05
7	PVOC WATER LIN. PT 5	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 10, 2013 13:37:00
8	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 14:13:40
9	PVOC WATER LIN. PT 6	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 10, 2013 14:49:35
10	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 15:25:31
11	PVOC WATER LIN. PT 7	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\8015p2w011...	Jan 10, 2013 16:01:36
12	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 16:37:52
13	PVOC ICV WATER	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 17:14:20
14	INSTRUMENT BLANK	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 17:51:01
15	PVOC ICB WATER	C:\Instarch\PVOC2\Data\011...	C:\Instarch\PVOC2\Methods\p2w011013....	Jan 10, 2013 18:28:03

PVOC/GRO ISTD/SSTD	80 ug/L	VOC04 3816
PVOC/GRO CCV/Calib. STD	100 ug/L	VOC04 3837
PVOC/GRO ICV/Spiking STD	100 ug/L	VOC04 3838

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #	
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V666 1000/10000ug/ml (3) V672 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/14/13	BMS 8/7/13	VOCO4 3925	1
8260 CCV/ Calib. Std.	(1) V667 2000ug/ml (2) V665 1000/10000ug/ml (3) V671 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/14/13	BMS 8/7/13	VOCO4 3926	2 3
8015 CCV/Calib. Std.	V656 - 50000 ug/mL	B&J MEOH DD471	0.2 mL of std. into 10 mL of MeOH	1000 ug/mL	02/07/13	EJC 08/07/13	VOC04 3927	4 5
8015 ICV/Spiking Std.	V632 - 5000 ug/mL	B&J MEOH DD471	1 mL of std. into 5 mL of MeOH	1000 ug/mL	02/07/13	EJC 08/07/13	VOC04 3928	6 7
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V666 1000/10000ug/ml (3) V672 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/23/13	RLD 8/16/13	VOCO4 3929	8 9
8260 CCV/ Calib. Std.	(1) V667 2000ug/ml (2) V665 1000/10000ug/ml (3) V671 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/23/13	RLD 8/16/13	VOCO4 3930	10 11

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

Standard Prep Log ID # Concentration		Solvent/Lot	Prep	Final Concentration	Expiration Date	Prepped By Date	ID #
PVOC/GRO ISTD	V639 - 2000 ug/mL	B&J MEOH DD471	1 mL of std. into 25 mL of MeOH	80 ug/mL	01/01/14	BMS 07/01/13	VOC04 3909
PVOC/GRO SSTD	V648 - 2000 ug/mL	B&J MEOH DD471	0.5 mL of std. into 10 mL of MeOH	100 ug/mL	01/01/14	BMS 07/01/13	VOC04 3910
PVOC/GRO ISTD/SSTD	V639 - 2000 ug/mL V648 - 2000 ug/mL	B&J MEOH DD471	1 mL of each into 25 mL of MeOH	80 ug/mL	01/01/14	BMS 07/01/13	VOC04 3911
PVOC/GRO CCV/Calib. Std.	V651 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	01/01/14	BMS 07/01/13	VOC04 3912
PVOC/GRO ICV/Spiking Std.	V631 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	01/01/14	BMS 07/01/13	VOC04 3913
8260 ICV/ Spiking Std. RD 7/15/13	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/12/13	RLD 7/5/13	VOCO4 3914
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/12/13	RLD 7/5/13	VOCO4 3915
8260 ICV/ Spiking Std. RD 7/15/13	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/22/13	RLD 7/15/13	VOCO4 3916
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/22/13	RLD 7/15/13	VOCO4 3917
8260 BFB Std. RD 7/23/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	8/23/13	RLD 7/23/13	VOCO4 3918
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	320 ul of (1) into 10 mL FV of MEOH	80 ug/ml	8/23/13	RLD 7/23/13	VOCO4 3919
8260 VMS3 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	64 uL of (1) into 10 mL FV of MEOH	16 ug/ml	8/23/13	RLD 7/23/13	VOCO4 3920
8260 ICV/ Spiking Std.	(1) V660 2000ug/ml (2) V664 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/30/13	RLD 7/23/13	VOCO4 3921
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V663 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	7/30/13	RLD 7/23/13	VOCO4 3922
8260 ICV/ Spiking Std. RD 7/30/13	(1) V660 2000ug/ml (2) V666 1000/10000ug/ml (3) V662 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/6/13	RLD 7/30/13	VOCO4 3923
8260 CCV/ Calib. Std.	(1) V655 2000ug/ml (2) V665 1000/10000ug/ml (3) V661 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/6/13	RLD 7/30/13	VOCO4 3924

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 TBA ICV/Spiking Std.	(1) VOC04 3860 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	3/26/13	RLD 2/26/13	VOCO4 3862
8260 TBA CCV/Calib. Std.	(1) VOC04 3861 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	3/26/13	RLD 2/26/13	VOCO4 3863
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/13/13	RLD 3/6/13	VOCO4 3864
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/13/13	RLD 3/6/13	VOCO4 3865
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/20/13	RLD 3/13/13	VOCO4 3866
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	3/20/13	RLD 3/13/13	VOCO4 3867
8260 BFB Std.	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	4/25/13	RLD 3/25/13	VOCO4 3868
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	4/25/13	RLD 3/25/13	VOCO4 3869
8260 VMS3 ISTD/SSTD	(1) VOC04 3869 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	4/25/13	RLD 3/25/13	VOCO4 3870
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	4/1/13	RLD 3/25/13	VOCO4 3871
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	4/1/13	RLD 3/25/13	VOCO4 3872
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/10/13	RLD 4/3/13	VOCO4 3873
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/10/13	RLD 4/3/13	VOCO4 3874
PVOC/GRO ISTD/SSTD	V639 - 2000 ug/mL V648 - 2000 ug/mL	B&J MEOH DD471	1 mL of each into 25 mL of MeOH	80 ug/mL	10/03/13	BMS 04/03/13	VOC04 3875
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V659 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/18/11	RLD 4/11/13	VOCO4 3876
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V658 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	4/18/11	RLD 4/11/13	VOCO4 3877

ETC 08-13

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep	Final Concentration	Expiration Date	Prepped By Date	ID #
8015 CCV/Calib. Std.	V614 - 50000 ug/mL	B&J MEOH DD471	0.2 mL of std. into 10 mL of MeOH	1000 ug/mL	07/28/13	BMS 01/28/13	VOC04 3845
8015 ICV/Spiking Std.	V632 - 5000 ug/mL	B&J MEOH DD471	1 mL of std. into 5 mL of MeOH	1000 ug/mL	07/28/13	BMS 01/28/13	VOC04 3846
AK CCV/Calib. Std.	V630 - 50000 ug/mL	B&J MEOH DD471	0.2 mL of std. into 10 mL of MeOH	1000 ug/mL	07/28/13	BMS 01/28/13	VOC04 3847
8260 BFB Std. RD 1/31/13	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	2/28/13	RLD 1/31/13	VOCO4 3848
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	2/28/13	RLD 1/31/13	VOCO4 3849
8260 VMS3 ISTD/SSTD	(1) VOC04 ~~3831~~ 3849 80ug/ml RD 1/31/13	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	2/28/13	RLD 1/31/13	VOCO4 3850
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V654 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/7/13	RLD 1/31/13	VOCO4 3851
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V653 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	2/7/13	RLD 1/31/13	VOCO4 3852

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 BFB Std. RD 12/31/12	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	1/31/13	RLD 12/31/12	VOCO4 3830
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	1/31/13	RLD 12/31/12	VOCO4 3831
8260 VMS3 ISTD/SSTD	(1) VOC04 3831 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	1/31/13	RLD 12/31/12	VOCO4 3832
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/7/13	RLD 12/31/12	VOCO4 3833
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/7/13	RLD 12/31/12	VOCO4 3834
PVOC/GRO ISTD	V639 - 2000 ug/mL 01/03/13 BMS	B&J MEOH DD471	1 mL of std. into 25 mL of MeOH	80 ug/mL	07/03/13	BMS 01/03/13	VOC04 3835
PVOC/GRO SSTD	V610 - 2000 ug/mL	B&J MEOH DD471	0.5 mL of std. into 10 mL of MeOH	100 ug/mL	07/03/13	BMS 01/03/13	VOC04 3836
PVOC/GRO CCV/Calib. Std.	V613 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	07/03/13	BMS 01/03/13	VOC04 3837
PVOC/GRO ICV/Spiking Std.	V631 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	07/03/13	BMS 01/03/13	VOC04 3838
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml 01/07/13 BMS (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/14/13	RLD 1/7/13	VOCO4 3839
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	1/14/13	RLD 1/7/13	VOCO4 3840
8260 ICV/ Spiking Std. RD 1/23/13	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/22/13	RLD 1/15/13	VOCO4 3841
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/22/13	RLD 1/15/13	VOCO4 3842
8260 ICV/ Spiking Std. RD 1/23/13	(1) V641 2000ug/ml (2) V650 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/30/13	RLD 1/23/13	VOCO4 3843
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V649 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	1/30/13	RLD 1/23/13	VOCO4 3844

11/26/12 BMS

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep	Final Concentration	Expiration Date	Prepped By Date	ID #
PVOC/GRO ISTD/SSTD	V609 - 2000 ug/mL V610 - 2000 ug/mL	B&J MEOH DD471	1 mL of each into 25 mL of MeOH	80 ug/mL	05/26/13	BMS 11/26/12	VOC04 3816
8260 ICV/ Spiking Std. RD 11/20/12	(1) V641 2000ug/ml (2) V645 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	12/3/12	RLD 11/26/12	VOC04 3817
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V644 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	12/3/12	RLD 11/26/12	VOC04 3818
8260 TBA ICV/Spiking Std.	(1) VOC04 3817 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	12/3/12	RLD 11/26/12	VOC04 3819
8260 TBA CCV/Calib. Std.	(1) VOC04 3818 (t-butyl alcohol = 5000 ug/ml)	B&J MEOH DD471	200 ul of (1) into 10 ml FV of MeOH	100 ug/ml	12/3/12	RLD 11/26/12	VOC04 3820
8260 BFB Std. RD 12/6/12	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	1/5/13	RLD 12/5/12	VOC04 3821
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	1/5/13	RLD 12/5/12	VOC04 3822
8260 VMS3 ISTD/SSTD	(1) VOC04 3822 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	1/5/13	RLD 12/5/12	VOC04 3823
8260 ICV/ Spiking Std.	(1) V641 2000ug/ml (2) V645 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	12/12/12	RLD 12/5/12	VOC04 3824
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V644 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	12/12/12	RLD 12/5/12	VOC04 3825
8260 ICV/ Spiking Std. RD 12/12/12	(1) V641 2000ug/ml (2) V645 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	12/19/12	RLD 12/12/12	VOC04 3826
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V644 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	12/19/12	RLD 12/12/12	VOC04 3827
8260 ICV/ Spiking Std. RA 12/19/12	(1) V641 2000ug/ml (2) V645 1000/10000ug/ml (3) V643 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	12/26/12	RLD 12/19/12	VOC04 3828
8260 CCV/ Calib. Std.	(1) V640 2000ug/ml (2) V644 1000/10000ug/ml (3) V642 1000/10000ug/ml	B&J MeOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MeOH	100 ug/ml	12/26/12	RLD 12/19/12	VOC04 3829

APG 7/24/12

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 ICV/ Spiking Std.	1-V624 2000ug/ml 2-V633 1000/10000ug/ml 3-V635 1000/10000ug/ml	B&J MEOH DD471	150ul of 1 + 300ul of 2 & 3 + 2250 ul of MEOH	100 ug/ml	7/31/12	APG 7/24/12	VOCO4 3771
8260 CCV/ Calib. Std.	1-V625 2000ug/ml 2-V634 1000/10000ug/ml 3-V636 1000/10000ug/ml	B&J MEOH DD471	150ul of 1 + 300ul of 2 & 3 + 2250 ul of MEOH	100 ug/ml	7/31/12	APG 7/24/12	VOCO4 3772

APG 8/7/12

8260 ICV/ Spiking Std.	1-V624 2000ug/ml 2-V633 1000/10000ug/ml 3-V635 1000/10000ug/ml	B&J MEOH DD471	150ul of 1 + 300ul of 2 & 3 + 2250 ul of MEOH	100 ug/ml	8/14/12	APG 8/7/12	VOCO4 3773
8260 CCV/ Calib. Std.	1-V625 2000ug/ml 2-V634 1000/10000ug/ml 3-V636 1000/10000ug/ml	B&J MEOH DD471	150ul of 1 + 300ul of 2 & 3 + 2250 ul of MEOH	100 ug/ml	8/14/12	APG 8/7/12	VOCO4 3774

BMS 08/07/12

PVOC/GRO ISTD/SSTD	V609 - 2000 ug/mL V610 - 2000 ug/mL	B&J MEOH DD471	1 mL of each into 25 mL of MeOH	80 ug/mL	02/07/13	BMS 08/07/12	VOC04 3775
PVOC/GRO CCV/Calib. Std.	V613 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	02/07/13	BMS 08/07/12	VOC04 3776
PVOC/GRO ICV/Spiking Std.	V587 - 1000/10000 ug/mL	B&J MEOH DD471	1 mL of std. into 10 mL of MeOH	100/1000ug/mL	02/07/13	BMS 08/07/12	VOC04 3777
8015 CCV/Calib. Std.	V614 - 50000 ug/mL	B&J MEOH DD471	0.2 mL of std. into 10 mL of MeOH	1000 ug/mL	02/07/13	BMS 08/07/12	VOC04 3778
8015 ICV/Spiking Std.	V597 - 5000 ug/mL	B&J MEOH DD471	1 mL of std. into 5 mL of MeOH	1000 ug/mL	02/07/13	BMS 08/07/12	VOC04 3779

Standard Prep	Log ID # Concentration	Solvent/Lot	Prep (FV = Final Volume)	Final Concentration	Expiration Date	Prepped By Date	ID #
8260 BFB Std.	(1) V583 2000ug/ml	B&J MEOH DD471	75 ul of (1) + 2925 ul of MeOH	50 ug/ml	9/20/12	RLD 8/20/12	VOCO4 3780
8260 VMS1 ISTD/SSTD	(1) V620 2500ug/ml	B&J MEOH DD471	300 ul of (1) into 10 mL FV of MEOH	80 ug/ml	9/20/12	RLD 8/20/12	VOCO4 3781
8260 VMS3 ISTD/SSTD	(1) VOC04 3781 80ug/ml	B&J MEOH DD471	2.0 mL of (1) into 10 mL FV of MEOH	16 ug/ml	9/20/12	RLD 8/20/12	VOCO4 3782
8260 ICV/ Spiking Std.	(1) V624 2000ug/ml (2) V637 1000/10000ug/ml (3) V635 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/27/12	RLD 8/20/12	VOCO4 3783
8260 CCV/ Calib. Std.	(1) V625 2000ug/ml (2) V638 1000/10000ug/ml (3) V636 1000/10000ug/ml	B&J MEOH DD471	150 ul of (1) + 300 ul of (2) + 300 ul of (3) + 2250 ul of MEOH	100 ug/ml	8/27/12	RLD 8/20/12	VOCO4 3784

8/21/12

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V6666	8260 Addition	SPEX	VO-CTWI-12	C1130701014	1000-10,000 ug/mL 09/29/13	MeOH	07/08/13 BMS	2 x 1mL
V6667	VOC Mix	ULTRA	DWM-588	CK-1488	2000 ug/mL 06/30/16	MeOH	07/08/13 BMS	4 x 1mL
V6668	8260 Istd./Sstd. Mix	ULTRA	STM-540	CK-2154	2500 ug/mL 07/31/16	MeOH	07/08/13 BMS	4 x 1mL
V6669	Fluorobenzene	ULTRA	STS-160	CE-4128A	2000 ug/mL 01/31/15	MeOH	07/08/13 BMS	4 x 1mL
V6670	Unleaded Gasoline	ULTRA	RGO-601	CH-0979	5000 ug/mL 04/30/15	MeOH	07/08/13 BMS	4 x 1mL
V6671	8260 Special Addition	SPEX	VO-CTWI-5	C1130726021	1000-50000 ug/mL 01/22/14	MeOH	08/02/13 BMS	2 x 1mL
V6672	8260 Special Addition	SPEX	VO-CTWI-5	C1130726023	1000-50000 ug/mL 01/22/14	MeOH	08/02/13 BMS	2 x 1mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V647	Allyl chloride	SPEX	S-210	R1100624004	1000 ug/mL 06/23/13	MeOH	10/15/12 BmS	1 mL
V648	α,α,α-Trifluorotoluene	ULTRA	STS-220N	CE-1903A	2000 ug/mL 07/31/14	MeOH	12/03/12 BmS	4 x 1
V649	8260 Addition	SPEX	VO-CTWI-4	C1121219008	1000-10000 ug/mL 03/19/13	MeOH	12/27/12 BmS	2 x 1
V650	8260 Addition	SPEX	VO-CTWI-4	C1121219009	1000-10000 ug/mL 03/19/13	MeOH	12/27/12 BmS	2 x 1
V651	Pvoc/GRO Mix	RESTEK	30095	A090307	1000 ug/mL 09/19	MeOH	01/09/13 BmS	2 x 1
V652	Pvoc/GRO Mix	RESTEK	30095	A091998	1000 ug/mL 12/19	MeOH	01/09/13 BmS	2 x 1
V653	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130107010	1000-50000 ug/mL, 7/6/13	MeOH	1/15/13 RD	2 x 1 ml
V654	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130107011	1000-50000 ug/mL, 7/6/13	MeOH	1/15/13 RD	2 x 1 ml
V655	8260 VOC Mix	Ultra Scientific	DWM-588	CJ-4427	2000 ug/mL, 1/31/16	MeOH	1/15/13 RD	4 x 1 mL
V656	Unleaded Gas Composite	RESTEK	30205	A087768	50,000 ug/mL 05/19	MeOH	02/01/13 BmS	1 mL
V657	Unleaded Gas Composite	RESTEK	30205	A092370	50,000 ug/mL 01/20	MeOH	02/01/13 BmS	1 mL
V658	8260 Addition (new mix)	SPEX-Certiprep	VO-CTWI-12	C1130305009	1000-10000 ug/mL 6/3/13	MeOH	3/12/13 RD	2 x 1 ml (Formerly VO-CTWI-4)
V659	8260 Addition (New mix)	SPEX-Certiprep	VO-CTWI-12	C1130305010	1000-10000 ug/mL 6/3/13	MeOH	3/12/13 RD	2 x 1 mL
V660	VOC Mix (8260)	Accustandard	M-502-10X	212071035	2000 ug/ml 7/25/15	MeOH	3/19/13 RD	5 x 1 ml
V661	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130327006	1000-50000 ug/mL 9/23/13	MeOH	4/3/13 RD	3 x 1 mL
V662	8260 Special Addition	SPEX-Certiprep	VO-CTWI-5	C1130327007	1000-50000 ug/mL 9/23/13	MeOH	4/3/13 RD	3 x 1 mL
V663	8260 Addition	SPEX	VO-CTWI-12	C1130507004	1000-10000 ug/mL 08/05/13	MeOH	05/14/13 BmS	2 x 1 mL
V664	8260 Addition	SPEX	VO-CTWI-12	C1130507005	1000-10000 ug/mL 08/05/13	MeOH	05/14/13 BmS	2 x 1 mL
V665	8260 Addition	SPEX	VO-CTWI-12	C1130701013	1000-10,000 ug/mL 09/29/13	MeOH	07/08/13 BmS	2 x 1 mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V628	8260 Spec Additives mix	SPEX	VO-CTWI-5	111112A018	1000-5000ug/mL 5/24/12	MeOH	3/12/12 AP6	2x1 -2
V629	4-BFB Trifluorotoluene	RESTEK	30083	A084034	10,000 ug/mL 10/2020	MeOH	03/26/12 BMS	2x1
V630	Unleaded Gas Composite	RESTEK	30205	A081012	50,000 ug/mL 05/2018	MeOH	03/26/12 BMS	2x1
V631	PVOC/GRO Mix	ULTRA	UST-100	CH-2581	1000 ug/mL 09/30/2014	MeOH	04/17/12 BMS	4x1
V632	Unleaded Gas Std.	ULTRA	RGO-601	CH-0979	5000 ug/mL 04/30/2015	MeOH	04/17/12 BMS	2x1
V633	8260 Additives mix	SPEX	VO-CTWI-4	C112041001B	1000-10000ug/mL 7/9/12	MeOH	4/18/12 AP6	2x1
V634	8260 Additives mix	SPEX	VO-CTWI-4	C112041001?	1000-10000ug/mL 7/9/12	MeOH	4/18/12 AP6	2x1
V635	8260 Special Addition	SPEX	VO-CTWI-5	C1120620003	1000-50,000 ug/mL 12/17/12	MeOH	06/27/12 BMS	2x1
V636	8260 Special Addition	SPEX	VO-CTWI-5	C1120620004	1000-50,000 ug/mL 12/17/12	MeOH	06/27/12 BMS	2x1
V637	8260 Addition	SPEX	VO-CTWI-4	C1120703021	1000-10000 ug/mL 10/01/12	MeOH	07/13/12 BMS	2x1
V638	8260 Addition	SPEX	VO-CTWI-4	C1120703022	1000-10,000 ug/mL 10/01/12	MeOH	07/13/12 BMS	2x1
V639	Fluorobenzene	ULTRA	STS-160	CE-4128A	2000 ug/mL 01/31/15	MeOH	09/10/12 BMS	4x1
V640	VOC Mix (8260)	ULTRA	DWM-588	CJ-3132	2000 ug/mL 09/30/15	MeOH	09/10/12 BMS	4x1
V641	VOC Mix (8260)	AccuStandard	M-502-10X	212061172	2000 ug/mL 06/27/15	MeOH	09/10/12 BMS	5x1
V642	8260 Special Addition	SPEX	VO-CTWI-5	C1120910009	1000-50000 ug/mL 03/09/13	MeOH	09/17/12 BMS	3x1
V643	8260 Special Addition	SPEX	VO-CTWI-5	C1120910010	1000-50000 ug/mL 03/09/13	MeOH	09/17/12 BMS	3x1
V644	8260 Addition	SPEX	VO-CTWI-4	C1120920011	1000-10,000 ug/mL 12/19/12	MeOH	09/28/12 BMS	2x1
V645	8260 Addition	SPEX	VO-CTWI-4	C1120920012	1000-10000 ug/mL 12/19/12	MeOH	09/28/12 BMS	2x1
V646	Acetonitrile	SPEX	S-145	C1100518007	1000 ug/mL 05/17/13	MeOH	10/15/12 BMS	1

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If muitiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V609	Fluorobenzene	ULTRA	STS-160	CE-4128	2000 ug/mL 12/31/12	MeOH	09/19/11 Bms	4x1
V610	para-Trifluorotoluene	ULTRA	STS-220N	CE-1903A	2000 ug/mL 07/31/14	MeOH	09/19/11 Bms	4x1
V611	8260 SPEX Add.	SPEX	VO-CTWI-5	C1110914008	1000-10,000 2000 ug/mL 3/12/12	meoH	9/21/11 AP6	2x1
V612	8260 SPEX Add	SPEX	VO-CTWI-5	C1110914009	1000-10,000 2000 ug/mL 3/12/12	meoH	9/21/11 AP6	2x1
V613	PVOC/GRO Mix	RESTEK	30095	A072677	1000 ug/mL 3/17	MeOH	09/30/11 Bms	4x1
V614	Unleaded Gasoline	RESTEK	30205	A076842	50,000 ug/mL 10/17	MeOH	09/30/11 Bms	2x1
V615	SPEX SPEX Add	SPEX	VO-CTWI-5	C1110914008	1000-10,000 2000 ug/mL 3/12/12	meoH	11/23/11 AP6	1x1
V616	8260 SPEX Add	SPEX	VO-CTWI-5	C1111123007	1000-10,000 2000 ug/mL 5/21/12	meoH	12/6/11 AP6	2x1
V617	8260 SPEX Add	SPEX	VO-CTWI-5	C1111129018	1000-10,000 2000 ug/mL 5/27/12	meoH	12/6/11 AP6	2x1
V618	Carbon Dioxide	Air Gas	X02He99C37A1894	Cylinder # XE0016953	10,000 ppmV 12/2014	1% CO_2/He	RS 12/19/11	1 cylinder @ 28.7 CF
V619	Methane, Ethene, Ethane Std.	Airgas	X04HE99C353Q80	Cylinder # 4774237	200 ppmV 12/2014	Helium	Bms 12/27/11	1 cylinder @ 31.6 CF
V620	8260 ISTD/SSTD mix	ULTRA	STM-540	CH-2681	2500 ug/mL 9/30/14	meoH	AP6 1/4/12	4x1
V621	Methane, Ethene, Ethane Std.	PRAXAIR	HE ET200EMIC-AQ	917830501	200 ppm 01/11/13	Helium	Bms 01/11/12	Re-certified (V488)
V622	8260 Add.	SPEX	VO-CTWI-4	T1120105008	1000-10000 ug/mL 4/4/12	meoH	AP6 1/13/12	2x1
V623	8260 Add.	SPEX	VO-CTWI-4	T1120105009	1000-10000 ug/mL 4/4/12	meoH	AP6 1/13/12	2x1
V624	8260 VOC Mix	AccuStandard	M-502-10X	211071302	2000 ug/mL 8/1/14	MeOH	Bms 1/23/12	5x1
V625	8260 VOC Mix	ULTRA	DWM-588	CH-3655	2000 ug/mL 12/31/14	MeOH	Bms 02/24/12	4x1
V626	Carbon Dioxide Std.	Linde	5764 Mix	08499A702DZE	10,000 ppm 03/02/13	Helium	Bms 03/02/12	Re-certified (CTLV 392)
V627	8260 Special Acetone mix	SPEX	VO-CTWI-5	C1111123007	1000-50000 ug/mL 5/21/12	meoH	AP6 3/12/12	2x1

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V590	Tetrachloroethene	ULTRA	EPA-1049	CG-3919	5000 ug/mL 12/31/14	MeOH	02/09/11 BMS	1
V591	8260 Addition	SPEX	VO-CTWI-4	C1110210015	1000 ug/mL 08/14/11	MeOH	02/18/11 BMS	2x1
V592	8260 Addition	SPEX	VO-CTWI-4	C1110210016	1000 ug/mL 08/14/11	MeOH	02/18/11 BMS	2x1
V593	8260 VOC mix	AccuStd.	M-502-10X	211011188	2000 ug/mL 2/9/14	meoH	2/28/11 APL	APL 5x1
V594	8260 Special Add	SPEX	VO-CTWI-5	C1110222024	1000 ug/mL 8/28/11	meoH	3/4/11 APL	2x1
V595	8260 Special Add	SPEX	VO-CTWI-5	C1110222025	1000 ug/mL 8/28/11	meoH	3/4/11 APL	2x1
V596	Unleaded Gasoline Std.	RESTEK	30096	A077232	5000 ug/mL 11/17	MeOH	04/08/11 BMS	2x1
V597	Unleaded Gasoline Std.	ULTRA	RGO-601	CE-3569	5000 ug/mL 8/12	MeOH	04/15/11 BMS	2x1
V598	8260 Special Add'n	SPEX	VO-CTWI-5	C1110222024	1000 ug/mL 10/26/11	MeOH	05/03/11 BMS	2x1
V599	8260 Special Add'n	SPEX	VO-CTWI-5	C1110222025	1000 ug/mL 10/26/11	MeOH	05/03/11 BMS	2x1
V600	8260 Addition	SPEX	VO-CTWI-4	C1110210015	1000 ug/mL 11/02/11	MeOH	05/11/11 BMS	2x1
V601	8260 Addition	SPEX	VO-CTWI-4	C1110210016	1000 ug/mL 11/02/11	MeOH	05/11/11 BMS	2x1
V602	8260 Addition	SPEX	VO-CTWI-4	C1110520004	1000 ug/mL 8/21/11	meoH	5/26/11 APL	2x1
V603	8260 Adj.	SPEX	VO-CTWI-4	C1110520005	1000 ug/mL 8/21/11	meoH	5/26/11 APL	2x1
V604	07/14/11 Reagent Alcohol	Fisher	A995-4	110858	HPLC Grade 91% 7/14/12	91%	7/14/11 RD	4L
V605	Retention Time Marker	Restek	30483	A076381 A076381 07/14/11	1000ug/mL 7/14/11 9/2017	MeOH	7/14/11 RD	1 ml
V606	Unleaded Gasoline Composite Std	Restek	30205	A076842	5000 ug/mL 10/2017	MeOH	7/14/11 RD	1 ml
V607	8260 VOC mix	Ultra Sci	DWM-588	CH-1897	2000 ug/mL 7/31/14	meoH	7/26/11 APL	4x1
V608	Reagent Alcohol	Fisher	A995-4	111670	HPLC Grade 91% 8/30/12	91%	8/30/11 RD	2x4L

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)
1 = If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V571	8260 Special Addition	SPEX	XQ-5500-R1	C1100702005	1000 ug/mL 1/3/11	MeOH	7/12/10 BmS	3x1
V572	8260 Special Addition	SPEX	XQ-5500-R1	C1100702006	1000 ug/mL 1/3/11	MeOH	7/12/10 BmS	3x1
V573	8260 ISTD	Restek	30241	A072440	2500 ug/mL 1/15	meoh	7/16/10 APL	4x1
V574	Aroc/Gro mix	Restek	30095	A066306	1000 ug/mL 4/16	meoH	7/16/10 APL	4x1
V575	124-TMB 2-methylpentane	SPEX	VO-CTWI-1	T1100910001	1000 ug/mL 9/9/13	MeOH	9/14/10 BmS	4x1
V576	Fluorobenzene	ULTRA	~~STS-160 CE-4~~	CE-4128	2000 ug/mL 12/12	MeOH	9/27/10 BmS	4x1
V577	1,2-dichlorobenzene-d4	ULTRA	STS-210	CG-1939	2000 ug/mL 6/14	MeOH	9/27/10 BmS	4x1
V578	~~SPEX~~ 2-methoxy propane	SPEX	S-2732	R1040713002	1000 ug/mL 10/13	meoH	10/27/10 APL	2x1
V579	8260 Addition	SPEX	VO-CTWI-4	C1101029006	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V580	8260 Addition	SPEX	VO-CTWI-4	C1101029007	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V581	8260 Special Addition	SPEX	VO-CTWI-5	C1101101002	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V582	8260 Special Addition	SPEX	VO-CTWI-5	C1101101003	1000 ug/mL 5/7/11	MeOH	11/12/10 BmS	2x1
V583	4-Bromofluorobenzene	ULTRA	STS-110N	CF-5373	2000 ug/mL 1/14	MeOH	11/19/10 BmS	4x1
V584	~~std~~-Trifluorotoluene	ULTRA	STS-220N	CE-1903	2000 ug/mL 6/12	MeOH	11/19/10 BmS	4x1
V585	8260 Istd Mix	RESTEK	30241	A072440	2500 ug/mL 1/15	MeOH	11/30/10 BmS	3x1
V586	8260 Sstd. Mix	RESTEK	30240	A076124	2500 ug/mL 8/15	MeOH	11/30/10 BmS	3x1
V587	PVOC/GRO Mix	ULTRA	UST-100	CF-3160	1000 ug/mL 8/12	MeOH	01/25/11 BmS	4x1
V588	~~std~~-Trifluorotoluene	ULTRA	STS-220N	CE-1903	2000 ug/mL 6/12	MeOH	01/25/11 BmS	4x1
V589	Fluorobenzene	ULTRA	STS-160	CE-4128	2000 ug/mL 12/12	MeOH	01/25/11 BmS	4x1

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)
1 = If multiple analytes and all of the concentrations vary, mark VARIES.

SEMI-VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TCLP	SDG No.:	99335
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	339580
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/21/2013 / 08:00
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45552
Analytical Run #:	97009	Dilution Factor:	1.00
Date & Time Analyzed:	08/22/2013 / 15:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			08/20/2013 / 07:00
ICAL Calibration #:	1S080513	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-46-7	1,4-Dichlorobenzene	0.0040	U	0.0019	0.0040	0.010	0.010
95-95-4	2,4,5-Trichlorophenol	0.020	U	0.011	0.020	0.050	0.050
88-06-2	2,4,6-Trichlorophenol	0.020	U	0.010	0.020	0.050	0.050
121-14-2	2,4-Dinitrotoluene	0.0040	U	0.0021	0.0040	0.010	0.010
95-48-7	2-Methylphenol	0.020	U	0.0086	0.020	0.050	0.050
1319-77-3	3 & 4-Methylphenol	0.36	U	0.014	0.36	0.90	0.90
118-74-1	Hexachlorobenzene	0.0040	U	0.0027	0.0040	0.010	0.010
87-68-3	Hexachlorobutadiene	0.0040	U	0.0018	0.0040	0.010	0.010
67-72-1	Hexachloroethane	0.0040	U	0.0022	0.0040	0.010	0.010
98-95-3	Nitrobenzene	0.0040	U	0.0016	0.0040	0.010	0.010
87-86-5	Pentachlorophenol	0.020	U	0.011	0.020	0.050	0.050
110-86-1	Pyridine	0.010	U	0.0062	0.010	0.030	0.030

CT LABORATORIES
delivering more than data from your environmental analyses

1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TCLP	SDG No.:	99335
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	339578
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/21/2013 / 08:00
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45552
Analytical Run #:	97009	Dilution Factor:	1.00
Date & Time Analyzed:	08/22/2013 / 15:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			08/20/2013 / 07:00
ICAL Calibration #:	1S080513	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-46-7	1,4-Dichlorobenzene	0.0040	U	0.0019	0.0040	0.010	0.010
95-95-4	2,4,5-Trichlorophenol	0.020	U	0.011	0.020	0.050	0.050
88-06-2	2,4,6-Trichlorophenol	0.020	U	0.010	0.020	0.050	0.050
121-14-2	2,4-Dinitrotoluene	0.0040	U	0.0021	0.0040	0.010	0.010
95-48-7	2-Methylphenol	0.020	U	0.0086	0.020	0.050	0.050
1319-77-3	3 & 4-Methylphenol	0.36	U	0.014	0.36	0.90	0.90
118-74-1	Hexachlorobenzene	0.0040	U	0.0027	0.0040	0.010	0.010
87-68-3	Hexachlorobutadiene	0.0040	U	0.0018	0.0040	0.010	0.010
67-72-1	Hexachloroethane	0.0040	U	0.0022	0.0040	0.010	0.010
98-95-3	Nitrobenzene	0.0040	U	0.0016	0.0040	0.010	0.010
87-86-5	Pentachlorophenol	0.020	U	0.011	0.020	0.050	0.050
110-86-1	Pyridine	0.010	U	0.0062	0.010	0.030	0.030

CT LABORATORIES
delivering more than data from your environmental analyses

1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **083SB-0023-0001-ER**

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	0.99 (g/L)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/20/2013 / 7:30
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	45508
Analytical Run #:	96939	Dilution Factor:	1.00
Date & Time Analyzed:	08/21/2013 / 12:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2P080713	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
91-57-6	2-Methylnaphthalene	0.030	U	0.014	0.030	0.076	0.076
83-32-9	Acenaphthene	0.030	U	0.014	0.030	0.076	0.076
208-96-8	Acenaphthylene	0.030	U	0.014	0.030	0.076	0.076
120-12-7	Anthracene	0.030	U	0.013	0.030	0.076	0.076
56-55-3	Benzo(a)anthracene	0.030	U	0.013	0.030	0.076	0.076
50-32-8	Benzo(a)pyrene	0.030	U	0.013	0.030	0.076	0.076
205-99-2	Benzo(b)fluoranthene	0.030	U	0.013	0.030	0.076	0.076
191-24-2	Benzo(g,h,i)perylene	0.030	U	0.012	0.030	0.076	0.076
207-08-9	Benzo(k)fluoranthene	0.030	U	0.014	0.030	0.076	0.076
218-01-9	Chrysene	0.030	U	0.015	0.030	0.076	0.076
53-70-3	Dibenzo(a,h)anthracene	0.030	U	0.021	0.030	0.076	0.076
206-44-0	Fluoranthene	0.030	U	0.015	0.030	0.076	0.076
86-73-7	Fluorene	0.030	U	0.014	0.030	0.076	0.076
193-39-5	Indeno(1,2,3-cd)pyrene	0.030	U	0.018	0.030	0.076	0.076
91-20-3	Naphthalene	0.030	U	0.014	0.030	0.076	0.076
85-01-8	Phenanthrene	0.030	U	0.015	0.030	0.076	0.076
129-00-0	Pyrene	0.030	U	0.016	0.030	0.076	0.076

CT LABORATORIES
delivering more than data from your environmental analyses

1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	0.99 (g/L)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/19/2013 / 10:30
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45503
Analytical Run #:	96903	Dilution Factor:	1.00
Date & Time Analyzed:	08/20/2013 / 16:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	1S080513	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	0.40	U	0.17	0.40	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.40	U	0.18	0.40	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.40	U	0.20	0.40	1.0	1.0
106-46-7	1,4-Dichlorobenzene	0.40	U	0.19	0.40	1.0	1.0
95-95-4	2,4,5-Trichlorophenol	2.0	U	1.1	2.0	5.1	5.1
88-06-2	2,4,6-Trichlorophenol	2.0	U	1.0	2.0	5.1	5.1
120-83-2	2,4-Dichlorophenol	2.0	U	1.0	2.0	5.1	5.1
105-67-9	2,4-Dimethylphenol	2.0	U	0.83	2.0	5.1	5.1
51-28-5	2,4-Dinitrophenol	5.1	U	1.5	5.1	6.1	6.1
121-14-2	2,4-Dinitrotoluene	0.40	U	0.21	0.40	1.0	1.0
606-20-2	2,6-Dinitrotoluene	0.40	U	0.28	0.40	1.0	1.0
91-58-7	2-Chloronaphthalene	0.40	U	0.18	0.40	1.0	1.0
95-57-8	2-Chlorophenol	2.0	U	0.88	2.0	5.1	5.1
95-48-7	2-Methylphenol	2.0	U	0.87	2.0	5.1	5.1
88-74-4	2-Nitroaniline	0.40	U	0.22	0.40	1.0	1.0
88-75-5	2-Nitrophenol	2.0	U	0.91	2.0	5.1	5.1
1319-77-3	3 & 4-Methylphenol	3.6	U	1.4	3.6	9.1	9.1
91-94-1	3,3'-Dichlorobenzidine	1.0	U	0.67	1.0	2.5	2.5
99-09-2	3-Nitroaniline	0.40	U	0.26	0.40	1.0	1.0
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	1.6	2.0	6.1	6.1
101-55-3	4-Bromophenyl-phenyl ether	0.40	U	0.20	0.40	1.0	1.0
59-50-7	4-Chloro-3-methylphenol	2.0	U	0.81	2.0	5.1	5.1
106-47-8	4-Chloroaniline	0.40	U	0.12	0.40	1.0	1.0
7005-72-3	4-Chlorophenyl-phenyl ether	0.40	U	0.18	0.40	1.0	1.0

CT LABORATORIES
delivering more than data from your environmental analyses

1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	0.99 (g/L)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/19/2013 / 10:30
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45503
Analytical Run #:	96903	Dilution Factor:	1.00
Date & Time Analyzed:	08/20/2013 / 16:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	1S080513	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
100-01-6	4-Nitroaniline	0.40	U	0.15	0.40	1.0	1.0
100-02-7	4-Nitrophenol	2.0	U	1.1	2.0	5.1	5.1
65-85-0	Benzoic acid	25	U	11	25	76	76
100-51-6	Benzyl alcohol	1.0	U	0.55	1.0	3.0	3.0
111-91-1	Bis(2-chloroethoxy)methane	0.40	U	0.19	0.40	1.0	1.0
111-44-4	Bis(2-chloroethyl)ether	0.40	U	0.21	0.40	1.0	1.0
108-60-1	Bis(2-chloroisopropyl)ether	0.40	U	0.22	0.40	1.0	1.0
85-68-7	Butylbenzylphthalate	1.0	U	0.47	1.0	3.0	3.0
86-74-8	Carbazole	0.40	U	0.12	0.40	1.0	1.0
132-64-9	Dibenzofuran	0.40	U	0.19	0.40	1.0	1.0
84-66-2	Diethylphthalate	1.0	U	0.45	1.0	3.0	3.0
131-11-3	Dimethylphthalate	1.0	U	0.55	1.0	3.0	3.0
84-74-2	Di-n-butylphthalate	1.0	U	0.68	1.0	3.0	3.0
117-84-0	Di-n-octylphthalate	1.0	U	0.49	1.0	3.0	3.0
118-74-1	Hexachlorobenzene	0.40	U	0.27	0.40	1.0	1.0
87-68-3	Hexachlorobutadiene	0.40	U	0.18	0.40	1.0	1.0
77-47-4	Hexachlorocyclopentadiene	1.0	U	0.26	1.0	1.2	1.2
67-72-1	Hexachloroethane	1.0	U	0.22	1.0	1.2	1.2
78-59-1	Isophorone	0.40	U	0.18	0.40	1.0	1.0
98-95-3	Nitrobenzene	0.40	U	0.16	0.40	1.0	1.0
621-64-7	N-Nitroso-di-n-propylamine	0.40	U	0.18	0.40	1.0	1.0
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	0.81	U	0.36	0.81	2.0	2.0
87-86-5	Pentachlorophenol	2.0	U	1.1	2.0	5.1	5.1
108-95-2	Phenol	2.0	U	0.48	2.0	5.1	5.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

METHOD BLANK

1B-2

SEMIVOLATILE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	339715
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/19/2013 / 10:30
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45503
Analytical Run #:	96903	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	1S080513	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
120-82-1	1,2,4-Trichlorobenzene	08/20/2013	13:57	0.17	U	0.17	1.00	***0.50***
95-50-1	1,2-Dichlorobenzene	08/20/2013	13:57	0.18	U	0.18	1.00	***0.50***
541-73-1	1,3-Dichlorobenzene	08/20/2013	13:57	0.20	U	0.20	1.00	***0.50***
106-46-7	1,4-Dichlorobenzene	08/20/2013	13:57	0.19	U	0.19	1.00	***0.50***
95-95-4	2,4,5-Trichlorophenol	08/20/2013	13:57	1.1	U	1.1	5.0	***2.5***
88-06-2	2,4,6-Trichlorophenol	08/20/2013	13:57	1.0	U	1.0	5.0	***2.5***
120-83-2	2,4-Dichlorophenol	08/20/2013	13:57	1.0	U	1.0	5.0	***2.5***
105-67-9	2,4-Dimethylphenol	08/20/2013	13:57	0.82	U	0.82	5.0	***2.5***
51-28-5	2,4-Dinitrophenol	08/20/2013	13:57	1.5	U	1.5	6.0	***3.0***
121-14-2	2,4-Dinitrotoluene	08/20/2013	13:57	0.21	U	0.21	1.00	***0.50***
606-20-2	2,6-Dinitrotoluene	08/20/2013	13:57	0.28	U	0.28	1.00	***0.50***
91-58-7	2-Chloronaphthalene	08/20/2013	13:57	0.18	U	0.18	1.00	***0.50***
95-57-8	2-Chlorophenol	08/20/2013	13:57	0.87	U	0.87	5.0	***2.5***
95-48-7	2-Methylphenol	08/20/2013	13:57	0.86	U	0.86	5.0	***2.5***
88-74-4	2-Nitroaniline	08/20/2013	13:57	0.22	U	0.22	1.00	***0.50***
88-75-5	2-Nitrophenol	08/20/2013	13:57	0.90	U	0.90	5.0	***2.5***
1319-77-3	3 & 4-Methylphenol	08/20/2013	13:57	1.4	U	1.4	9.0	***4.5***
91-94-1	3,3'-Dichlorobenzidine	08/20/2013	13:57	0.66	U	0.66	2.50	***1.25***
99-09-2	3-Nitroaniline	08/20/2013	13:57	0.26	U	0.26	1.00	***0.50***
534-52-1	4,6-Dinitro-2-methylphenol	08/20/2013	13:57	1.6	U	1.6	6.0	***3.0***
101-55-3	4-Bromophenyl-phenyl ether	08/20/2013	13:57	0.20	U	0.20	1.00	***0.50***
59-50-7	4-Chloro-3-methylphenol	08/20/2013	13:57	0.76	U	0.76	5.00	***2.50***
106-47-8	4-Chloroaniline	08/20/2013	13:57	0.12	U	0.12	1.00	***0.50***

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

METHOD BLANK

1B-2

SEMIVOLATILE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	339715
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/19/2013 / 10:30
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45503
Analytical Run #:	96903	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	1S080513	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
7005-72-3	4-Chlorophenyl-phenyl ether	08/20/2013	13:57	0.18	U	0.18	1.00	***0.50***
100-01-6	4-Nitroaniline	08/20/2013	13:57	0.15	U	0.15	1.00	***0.50***
100-02-7	4-Nitrophenol	08/20/2013	13:57	1.1	U	1.1	5.0	***2.5***
65-85-0	Benzoic acid	08/20/2013	13:57	11	U	11	75	***37.5***
100-51-6	Benzyl alcohol	08/20/2013	13:57	0.54	U	0.54	3.00	***1.50***
111-91-1	Bis(2-chloroethoxy)methane	08/20/2013	13:57	0.19	U	0.19	1.00	***0.50***
111-44-4	Bis(2-chloroethyl)ether	08/20/2013	13:57	0.21	U	0.21	1.00	***0.50***
108-60-1	Bis(2-chloroisopropyl)ether	08/20/2013	13:57	0.22	U	0.22	1.00	***0.50***
85-68-7	Butylbenzylphthalate	08/20/2013	13:57	0.47	U	0.47	3.00	***1.50***
86-74-8	Carbazole	08/20/2013	13:57	0.12	U	0.12	1.00	***0.50***
132-64-9	Dibenzofuran	08/20/2013	13:57	0.19	U	0.19	1.00	***0.50***
84-66-2	Diethylphthalate	08/20/2013	13:57	0.45	U	0.45	3.00	***1.50***
131-11-3	Dimethylphthalate	08/20/2013	13:57	0.54	U	0.54	3.00	***1.50***
84-74-2	Di-n-butylphthalate	08/20/2013	13:57	0.67	U	0.67	3.00	***1.50***
117-84-0	Di-n-octylphthalate	08/20/2013	13:57	0.49	U	0.49	3.00	***1.50***
118-74-1	Hexachlorobenzene	08/20/2013	13:57	0.27	U	0.27	1.00	***0.50***
87-68-3	Hexachlorobutadiene	08/20/2013	13:57	0.18	U	0.18	1.00	***0.50***
77-47-4	Hexachlorocyclopentadiene	08/20/2013	13:57	0.26	U	0.26	1.20	***0.60***
67-72-1	Hexachloroethane	08/20/2013	13:57	0.22	U	0.22	1.20	***0.60***
78-59-1	Isophorone	08/20/2013	13:57	0.18	U	0.18	1.00	***0.50***
98-95-3	Nitrobenzene	08/20/2013	13:57	0.16	U	0.16	1.00	***0.50***
621-64-7	N-Nitroso-di-n-propylamine	08/20/2013	13:57	0.18	U	0.18	1.00	***0.50***
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	08/20/2013	13:57	0.36	U	0.36	2.00	***1.00***

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

METHOD BLANK

1B-2

SEMIVOLATILE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	339715
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/19/2013 / 10:30
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45503
Analytical Run #:	96903	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	1S080513	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-86-5	Pentachlorophenol	08/20/2013	13:57	1.1	U	1.1	5.0	***2.5***
108-95-2	Phenol	08/20/2013	13:57	0.48	U	0.48	5.00	***2.50***

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

METHOD BLANK

1B-2

SEMIVOLATILE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	339737
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/20/2013 / 7:30
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	45508
Analytical Run #:	96939	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2P080713	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
91-57-6	2-Methylnaphthalene	08/21/2013	11:46	0.014	U	0.014	0.075	***0.0375***
83-32-9	Acenaphthene	08/21/2013	11:46	0.014	U	0.014	0.075	***0.0375***
208-96-8	Acenaphthylene	08/21/2013	11:46	0.014	U	0.014	0.075	***0.0375***
120-12-7	Anthracene	08/21/2013	11:46	0.013	U	0.013	0.075	***0.0375***
56-55-3	Benzo(a)anthracene	08/21/2013	11:46	0.013	U	0.013	0.075	***0.0375***
50-32-8	Benzo(a)pyrene	08/21/2013	11:46	0.013	U	0.013	0.075	***0.0375***
205-99-2	Benzo(b)fluoranthene	08/21/2013	11:46	0.013	U	0.013	0.075	***0.0375***
191-24-2	Benzo(g,h,i)perylene	08/21/2013	11:46	0.012	U	0.012	0.075	***0.0375***
207-08-9	Benzo(k)fluoranthene	08/21/2013	11:46	0.014	U	0.014	0.075	***0.0375***
218-01-9	Chrysene	08/21/2013	11:46	0.015	U	0.015	0.075	***0.0375***
53-70-3	Dibenzo(a,h)anthracene	08/21/2013	11:46	0.015	U	0.015	0.075	***0.0375***
206-44-0	Fluoranthene	08/21/2013	11:46	0.015	U	0.015	0.075	***0.0375***
86-73-7	Fluorene	08/21/2013	11:46	0.014	U	0.014	0.075	***0.0375***
193-39-5	Indeno(1,2,3-cd)pyrene	08/21/2013	11:46	0.018	U	0.018	0.075	***0.0375***
91-20-3	Naphthalene	08/21/2013	11:46	0.014	U	0.014	0.075	***0.0375***
85-01-8	Phenanthrene	08/21/2013	11:46	0.015	U	0.015	0.075	***0.0375***
129-00-0	Pyrene	08/21/2013	11:46	0.016	U	0.016	0.075	***0.0375***

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

METHOD BLANK

1B-2

SEMIVOLATILE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	340736
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	08/21/2013 / 08:00
Analytical Method:	EPA 8270D	Analytical Prep Batch #	45552
Analytical Run #:	97009	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			08/20/2013 / 07:00
ICAL Calibration #:	1S080513	Concentration Units:	mg/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
106-46-7	1,4-Dichlorobenzene	08/22/2013	14:11	0.00019	U	0.00019	0.001	***0.0005***
95-95-4	2,4,5-Trichlorophenol	08/22/2013	14:11	0.0011	U	0.0011	0.005	***0.0025***
88-06-2	2,4,6-Trichlorophenol	08/22/2013	14:11	0.0010	U	0.0010	0.005	***0.0025***
121-14-2	2,4-Dinitrotoluene	08/22/2013	14:11	0.00021	U	0.00021	0.001	***0.0005***
95-48-7	2-Methylphenol	08/22/2013	14:11	0.00086	U	0.00086	0.005	***0.0025***
1319-77-3	3 & 4-Methylphenol	08/22/2013	14:11	0.0014	U	0.0014	0.009	***0.0045***
118-74-1	Hexachlorobenzene	08/22/2013	14:11	0.00027	U	0.00027	0.001	***0.0005***
87-68-3	Hexachlorobutadiene	08/22/2013	14:11	0.00018	U	0.00018	0.001	***0.0005***
67-72-1	Hexachloroethane	08/22/2013	14:11	0.00022	U	0.00022	0.001	***0.0005***
98-95-3	Nitrobenzene	08/22/2013	14:11	0.00016	U	0.00016	0.001	***0.0005***
87-86-5	Pentachlorophenol	08/22/2013	14:11	0.0011	U	0.0011	0.005	***0.0025***
110-86-1	Pyridine	08/22/2013	14:11	0.00062	U	0.00062	0.003	***0.0015***

CT LABORATORIES
delivering more than data from your environmental analyses

2C

WATER SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8270D	SDG:	99335
Analytical Run #:	96903	ICAL Calibration #:	1S080513

CTLab #	339561				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	81	40	125	
Surr: 2-Fluorobiphenyl	100	70	50	110	
Surr: 2-Fluorophenol	100	42	20	110	
Surr: Nitrobenzene-d5	100	71	40	110	
Surr: Phenol-d5	100	27	10	115	
Surr: Terphenyl-d14	100	81	50	135	

CTLab #	339715	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol		81.5	40	125	
Surr: 2-Fluorobiphenyl		72.1	50	110	
Surr: 2-Fluorophenol		44.2	20	110	
Surr: Nitrobenzene-d5		72.3	40	110	
Surr: Phenol-d5		30.4	10	115	
Surr: Terphenyl-d14		82.3	50	135	

CTLab #	339716	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	82.8	40	125	
Surr: 2-Fluorobiphenyl	100	70.3	50	110	
Surr: 2-Fluorophenol	100	46.1	20	110	
Surr: Nitrobenzene-d5	100	69.6	40	110	
Surr: Phenol-d5	100	31.1	10	115	
Surr: Terphenyl-d14	100	88.0	50	135	

CT LABORATORIES
delivering more than data from your environmental analyses

2C

WATER SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Analytical Method: EPA 8270D | SDG: 99335

Analytical Run #: 97009 | ICAL Calibration #: 1S080513

CTLab #	339578				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	86	40	125	
Surr: 2-Fluorobiphenyl	100	74	50	110	
Surr: 2-Fluorophenol	100	45	20	110	
Surr: Nitrobenzene-d5	100	73	40	110	
Surr: Phenol-d5	100	30	10	115	
Surr: Terphenyl-d14	100	92	50	135	
CTLab #	**339580**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	87	40	125	
Surr: 2-Fluorobiphenyl	100	69	50	110	
Surr: 2-Fluorophenol	100	42	20	110	
Surr: Nitrobenzene-d5	100	68	40	110	
Surr: Phenol-d5	100	28	10	115	
Surr: Terphenyl-d14	100	86	50	135	
CTLab #	**340736**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	91.0	40	125	
Surr: 2-Fluorobiphenyl	100	78.2	50	110	
Surr: 2-Fluorophenol	100	46.2	20	110	
Surr: Nitrobenzene-d5	100	77.5	40	110	
Surr: Phenol-d5	100	30.2	10	115	
Surr: Terphenyl-d14	100	93.2	50	135	
CTLab #	**340737**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	91.7	40	125	
Surr: 2-Fluorobiphenyl	100	79.3	50	110	
Surr: 2-Fluorophenol	100	47.8	20	110	
Surr: Nitrobenzene-d5	100	77.6	40	110	
Surr: Phenol-d5	100	33.4	10	115	
Surr: Terphenyl-d14	100	106	50	135	
CTLab #	**340739**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	86.5	40	125	
Surr: 2-Fluorobiphenyl	100	76.0	50	110	
Surr: 2-Fluorophenol	100	45.6	20	110	
Surr: Nitrobenzene-d5	100	72.0	40	110	
Surr: Phenol-d5	100	30.9	10	115	
Surr: Terphenyl-d14	100	97.0	50	135	

CT LABORATORIES
delivering more than data from your environmental analyses

2C

WATER SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8270D-SIM	SDG:	99335
Analytical Run #:	96939	ICAL Calibration #:	2P080713

CTLab #	339561				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2-Fluorobiphenyl	100	93	50	110	
Surr: Nitrobenzene-d5	100	99	40	110	
Surr: Terphenyl-d14	100	112	50	135	
CTLab #	**339737**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2-Fluorobiphenyl		98.9	50	110	
Surr: Nitrobenzene-d5		108	40	110	
Surr: Terphenyl-d14		122	50	135	
CTLab #	**339738**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2-Fluorobiphenyl	100	96.6	50	110	
Surr: Nitrobenzene-d5	100	109	40	110	
Surr: Terphenyl-d14	100	113	50	135	

CT LABORATORIES
delivering more than data from your environmental analyses

3C

WATER SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: TCLP SDG No.: 99335

Analytical Method: EPA 8270D Concentration Units: mg/L

Analytical Run #: 97009 Sample No.: 340739 Parent Sample No.: 339580

Analytical Prep Batch #: 45552 Analytical Preparation Date/Time: 08/21/2013 08:00

ICAL Calibration #: 1S080513

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,4-Dichlorobenzene	08/22/2013	15:45	30-100	0.121		0.200	60
2,4,5-Trichlorophenol	08/22/2013	15:45	50-110	0.190		0.200	95
2,4,6-Trichlorophenol	08/22/2013	15:45	50-115	0.181		0.200	90
2,4-Dinitrotoluene	08/22/2013	15:45	50-120	0.176		0.200	88
2-Methylphenol	08/22/2013	15:45	40-110	0.132		0.200	66
3 & 4-Methylphenol	08/22/2013	15:45	30-110	0.127		0.200	64
Hexachlorobenzene	08/22/2013	15:45	50-110	0.180		0.200	90
Hexachlorobutadiene	08/22/2013	15:45	25-105	0.118		0.200	59
Hexachloroethane	08/22/2013	15:45	30-95	0.118		0.200	59
Nitrobenzene	08/22/2013	15:45	45-110	0.139		0.200	70
Pentachlorophenol	08/22/2013	15:45	40-115	0.209		0.200	104
Pyridine	08/22/2013	15:45	1-78	0.0878		0.200	44

Spike Recovery: 0 out of 12 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3C

Sample Description

WATER SEMIVOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 339716 SDG No.: 99335

Analytical Method: EPA 8270D Concentration Units: ug/L

Sample No.: 339716 Parent Sample No.: 0

Analytical Prep Batch #: 45503 Analytical Preparation Date/Time: 08/19/2013 10:30

Analytical Run #: 96903 ICAL Calibration #: 1S080513

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,2,4-Trichlorobenzene	08/20/2013	14:17	35-105	11.1		20.0	56
1,2-Dichlorobenzene	08/20/2013	14:17	35-100	11.9		20.0	60
1,3-Dichlorobenzene	08/20/2013	14:17	30-100	11.5		20.0	58
1,4-Dichlorobenzene	08/20/2013	14:17	30-100	11.5		20.0	58
2,4,5-Trichlorophenol	08/20/2013	14:17	50-110	15.0		20.0	75
2,4,6-Trichlorophenol	08/20/2013	14:17	50-115	14.8		20.0	74
2,4-Dichlorophenol	08/20/2013	14:17	50-105	13.2		20.0	66
2,4-Dimethylphenol	08/20/2013	14:17	30-110	13.8		20.0	69
2,4-Dinitrophenol	08/20/2013	14:17	15-140	13.7		20.0	68
2,4-Dinitrotoluene	08/20/2013	14:17	50-120	16.8		20.0	84
2,6-Dinitrotoluene	08/20/2013	14:17	50-115	16.0		20.0	80
2-Chloronaphthalene	08/20/2013	14:17	50-105	12.9		20.0	64
2-Chlorophenol	08/20/2013	14:17	35-105	13.3		20.0	66
2-Methylphenol	08/20/2013	14:17	40-110	12.6		20.0	63
2-Nitroaniline	08/20/2013	14:17	50-115	15.8		20.0	79
2-Nitrophenol	08/20/2013	14:17	40-115	12.8		20.0	64
3 & 4-Methylphenol	08/20/2013	14:17	30-110	11.8		20.0	59
3,3'-Dichlorobenzidine	08/20/2013	14:17	20-110	19.0		20.0	95
3-Nitroaniline	08/20/2013	14:17	20-125	15.2		20.0	76
4,6-Dinitro-2-methylphenol	08/20/2013	14:17	40-130	15.2		20.0	76
4-Bromophenyl-phenyl ether	08/20/2013	14:17	50-115	15.1		20.0	76
4-Chloro-3-methylphenol	08/20/2013	14:17	45-110	13.0		20.0	65
4-Chloroaniline	08/20/2013	14:17	15-110	11.0		20.0	55
4-Chlorophenyl-phenyl ether	08/20/2013	14:17	50-110	14.0		20.0	70
4-Nitroaniline	08/20/2013	14:17	35-120	17.3		20.0	86
4-Nitrophenol	08/20/2013	14:17	0-125	8.26		20.0	41
Benzoic acid	08/20/2013	14:17	0-125	1.84		20.0	9
Benzyl alcohol	08/20/2013	14:17	30-110	12.4		20.0	62

CT LABORATORIES
delivering more than data from your environmental analyses

3C

Sample Description

LCS

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 339716 SDG No.: 99335

Analytical Method: EPA 8270D Concentration Units: ug/L

Sample No.: 339716 Parent Sample No.: 0

Analytical Prep Batch #: 45503 Analytical Preparation Date/Time: 08/19/2013 10:30

Analytical Run #: 96903 ICAL Calibration #: 1S080513

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Bis(2-chloroethoxy)methane	08/20/2013	14:17	45-105	13.3		20.0	66
Bis(2-chloroethyl)ether	08/20/2013	14:17	35-110	13.7		20.0	68
Bis(2-chloroisopropyl)ether	08/20/2013	14:17	25-130	13.3		20.0	66
Butylbenzylphthalate	08/20/2013	14:17	45-115	17.1		20.0	86
Carbazole	08/20/2013	14:17	50-115	16.9		20.0	84
Dibenzofuran	08/20/2013	14:17	55-105	13.8		20.0	69
Diethylphthalate	08/20/2013	14:17	40-120	16.8		20.0	84
Dimethylphthalate	08/20/2013	14:17	25-125	16.7		20.0	84
Di-n-butylphthalate	08/20/2013	14:17	55-115	17.1		20.0	86
Di-n-octylphthalate	08/20/2013	14:17	35-135	17.2		20.0	86
Hexachlorobenzene	08/20/2013	14:17	50-110	15.3		20.0	76
Hexachlorobutadiene	08/20/2013	14:17	25-105	10.9		20.0	54
Hexachlorocyclopentadiene	08/20/2013	14:17	45-113	10.6		20.0	53
Hexachloroethane	08/20/2013	14:17	30-95	11.4		20.0	57
Isophorone	08/20/2013	14:17	50-110	13.3		20.0	66
Nitrobenzene	08/20/2013	14:17	45-110	12.5		20.0	62
N-Nitroso-di-n-propylamine	08/20/2013	14:17	35-130	14.0		20.0	70
N-Nitrosodiphenylamine & Diphn	08/20/2013	14:17	50-110	35.4		40.0	88
Pentachlorophenol	08/20/2013	14:17	40-115	16.4		20.0	82
Phenol	08/20/2013	14:17	0-115	6.70		20.0	34

Spike Recovery: 0 out of 48 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3C

Sample Description

LCS

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 339738 SDG No.: 99335

Analytical Method: EPA 8270D-SIM Concentration Units: ug/L

Sample No.: 339738 Parent Sample No.: 0

Analytical Prep Batch #: 45508 Analytical Preparation Date/Time: 08/20/2013 7:30

Analytical Run #: 96939 ICAL Calibration #: 2P080713

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
2-Methylnaphthalene	08/21/2013	12:06	45-105	0.991		1.00	99
Acenaphthene	08/21/2013	12:06	45-110	0.858		1.00	86
Acenaphthylene	08/21/2013	12:06	50-105	0.895		1.00	90
Anthracene	08/21/2013	12:06	55-110	0.813		1.00	81
Benzo(a)anthracene	08/21/2013	12:06	55-110	1.08		1.00	108
Benzo(a)pyrene	08/21/2013	12:06	55-110	0.891		1.00	89
Benzo(b)fluoranthene	08/21/2013	12:06	45-120	1.13		1.00	113
Benzo(g,h,i)perylene	08/21/2013	12:06	40-125	0.841		1.00	84
Benzo(k)fluoranthene	08/21/2013	12:06	45-125	0.882		1.00	88
Chrysene	08/21/2013	12:06	55-110	0.860		1.00	86
Dibenzo(a,h)anthracene	08/21/2013	12:06	40-125	0.831		1.00	83
Fluoranthene	08/21/2013	12:06	55-115	0.951		1.00	95
Fluorene	08/21/2013	12:06	50-110	0.948		1.00	95
Indeno(1,2,3-cd)pyrene	08/21/2013	12:06	45-125	0.906		1.00	91
Naphthalene	08/21/2013	12:06	40-100	0.826		1.00	83
Phenanthrene	08/21/2013	12:06	50-115	0.939		1.00	94
Pyrene	08/21/2013	12:06	50-130	0.913		1.00	91

Spike Recovery: 0 out of 17 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3C

Sample Description

LCS

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 340737 SDG No.: 99335

Analytical Method: EPA 8270D Concentration Units: mg/L

Sample No.: 340737 Parent Sample No.: 0

Analytical Prep Batch #: 45552 Analytical Preparation Date/Time: 08/21/2013 08:00

Analytical Run #: 97009 ICAL Calibration #: 1S080513

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,4-Dichlorobenzene	08/22/2013	14:48	30-100	0.0115		0.0200	58
2,4,5-Trichlorophenol	08/22/2013	14:48	50-110	0.0178		0.0200	89
2,4,6-Trichlorophenol	08/22/2013	14:48	50-115	0.0175		0.0200	88
2,4-Dinitrotoluene	08/22/2013	14:48	50-120	0.0195		0.0200	98
2-Methylphenol	08/22/2013	14:48	40-110	0.0128		0.0200	64
3 & 4-Methylphenol	08/22/2013	14:48	30-110	0.0121		0.0400	30
Hexachlorobenzene	08/22/2013	14:48	50-110	0.0185		0.0200	92
Hexachlorobutadiene	08/22/2013	14:48	25-105	0.0113		0.0200	56
Hexachloroethane	08/22/2013	14:48	30-95	0.0109		0.0200	54
Nitrobenzene	08/22/2013	14:48	45-110	0.0143		0.0200	72
Pentachlorophenol	08/22/2013	14:48	40-115	0.0195		0.0200	98
Pyridine	08/22/2013	14:48	1-78	0.00719		0.0200	36

Spike Recovery: 0 out of 12 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	339715	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/19/2013
Date Analyzed:	08/20/2013	Time Analyzed:	13:57
Analytical Method:	EPA 8270D	Extraction Method:	SW3510
Analytical Run #:	96903	Extraction Batch #:	45503
		ICAL Calibration #:	1S080513

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBW	339715	08/20/2013 13:57
2	LCSW	339716	08/20/2013 14:17
3	083SB-0023-0001-ER	339561	08/20/2013 16:22

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	339737	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/20/2013
Date Analyzed:	08/21/2013	Time Analyzed:	11:46
Analytical Method:	EPA 8270D-SIM	Extraction Method:	SW3510
Analytical Run #:	96939	Extraction Batch #:	45508
		ICAL Calibration #:	2P080713

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBW	339737	08/21/2013 11:46
2	LCSW	339738	08/21/2013 12:06
3	083SB-0023-0001-ER	339561	08/21/2013 12:26

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	340736	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/21/2013
Date Analyzed:	08/22/2013	Time Analyzed:	14:11
Analytical Method:	EPA 8270D	Extraction Method:	SW3510
Analytical Run #:	97009	Extraction Batch #:	45552
		ICAL Calibration #:	1S080513

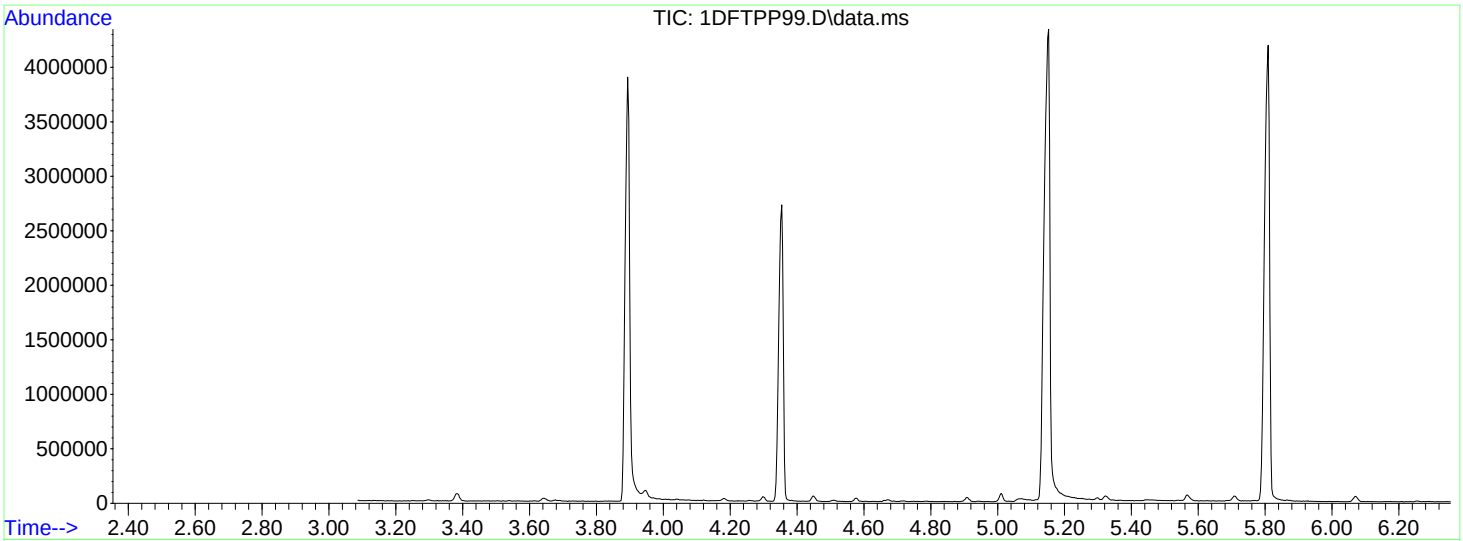
THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

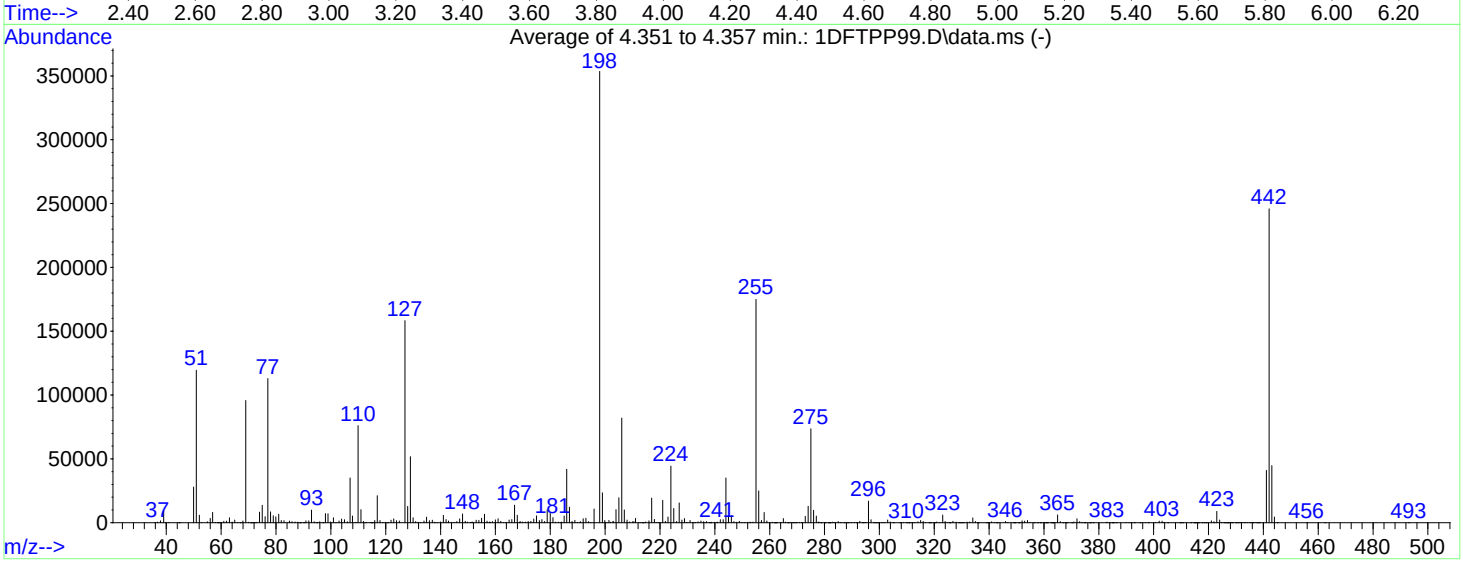
SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBW	340736	08/22/2013 14:11
2	LCSW	340737	08/22/2013 14:48
3	083SB-0022-0001-IDW	339578	08/22/2013 15:06
4	083SB-0021-0001-IDW	339580	08/22/2013 15:25
5	083SB-0021-0001-IDWMSW	340739	08/22/2013 15:45

Data File : C:\INSTARCH\Data\1S080513\1DFTPP99.D Vial: 1
Acq On : 5 Aug 2013 11:30 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/05/13

Method : C:\INSTARCH\Methods\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Tue Jul 30 10:38:29 2013





AutoFind: Scans 446, 447, 448; Background Corrected with Scan 435

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	119509	PASS
68	69	0.00	2	1.5	1391	PASS
70	69	0.00	2	0.4	419	PASS
127	198	10	80	44.8	158357	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	353578	PASS
199	198	5	9	6.6	23426	PASS
275	198	10	60	20.8	73578	PASS
365	198	1	100	1.8	6202	PASS
441	442	0.01	24	16.7	40976	PASS
442	198	50	100	69.5	245866	PASS
443	442	15	24	18.2	44794	PASS

Injection Log Summary Report

Method : X:\METHODS\1S080513.M (RTE Integrator)
Title : Method for 8270 analysis
Start (Tune) File ID : X:\DATA\1S080513\1DFTPP99.D
Injection Date : 5 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 11:30 Total files within period : 21
Sample Directory : X:\DATA\1S080513\

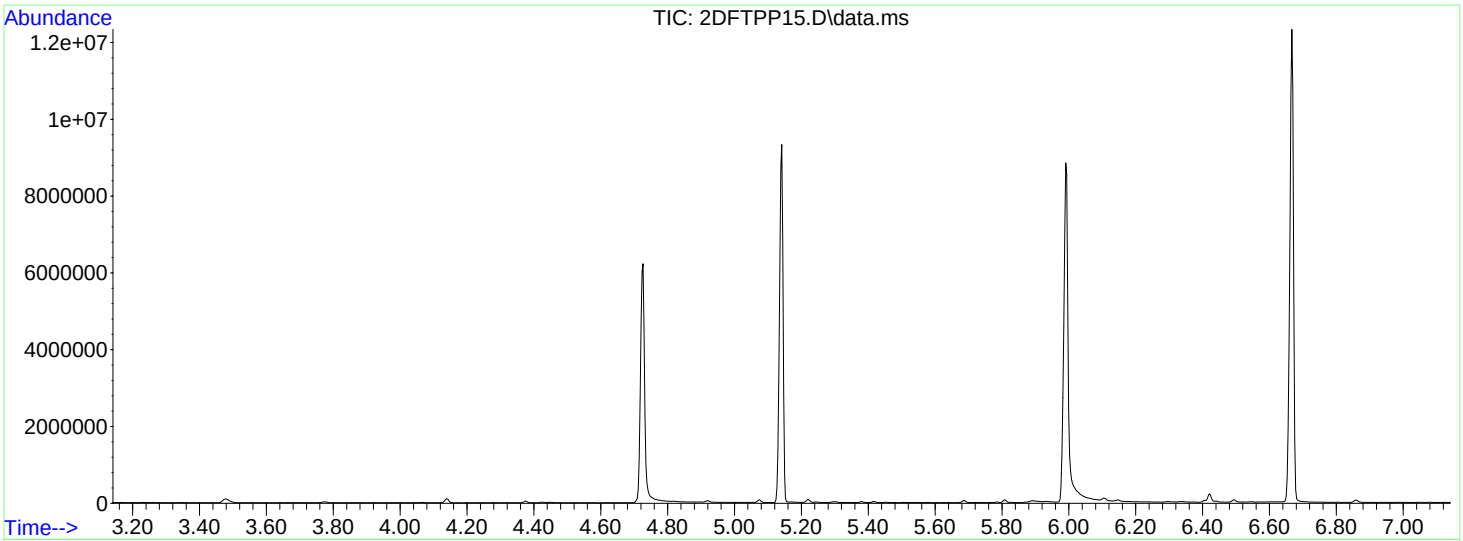
Injection Log Summary Table

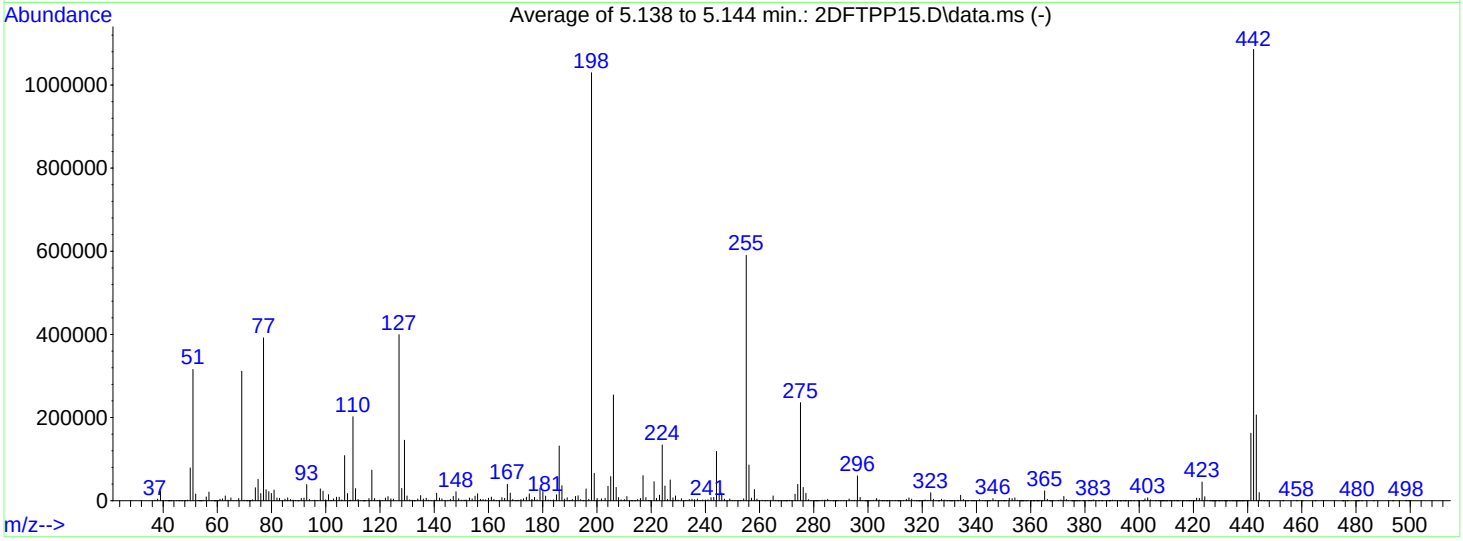
File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
1IB03	1.00	1.00	1.00	InstrumentBlank 500uL+5ul IS S2810C	5 Aug 2013	14:45
1ICAL7	1.00	1.00	1.00	ICAL 50ug/ml SVMS5743 500uL+5ul IS S2805D	5 Aug 2013	15:03
1ICAL6	1.00	1.00	1.00	ICAL 40ug/ml SVMS5742 500uL+5ul IS S2805D	5 Aug 2013	15:21
1ICAL5	1.00	1.00	1.00	ICAL 30ug/ml SVMS5741 500uL+5ul IS S2805D	5 Aug 2013	15:39
1ICAL4	1.00	1.00	1.00	ICAL 20ug/ml SVMS5740 500uL+5ul IS S2805D	5 Aug 2013	15:57
1ICAL3	1.00	1.00	1.00	ICAL 10ug/ml SVMS5739 500uL+5ul IS S2805D	5 Aug 2013	16:15
1ICAL2	1.00	1.00	1.00	ICAL 5ug/ml SVMS5738 500uL+5ul IS S2805D	5 Aug 2013	16:33
1ICAL1	1.00	1.00	1.00	ICAL 1ug/ml SVMS5737 500uL+5ul IS S2805D	5 Aug 2013	16:52
1ICV1	1.00	1.00	1.00	ICV 20ug/ml SVMS5744 500uL+5ul IS S2805D	5 Aug 2013	17:10
1ICV2	1.00	1.00	1.00	ICV 40ug/ml SVMS5745 500uL+5ul IS S2805D	5 Aug 2013	17:28
1ICV2R	1.00	1.00	1.00	ICV 40ug/ml SVMS5745 500uL+5ul IS S2805D	5 Aug 2013	17:47

Data File : C:\INSTARCH\DATA\2S080713\2DFTPP15.D Vial: 1
Acq On : 7 Aug 2013 10:00 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/07/13

Method : C:\INSTARCH\METHOD\2P080713.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Wed Aug 07 13:09:11 2013





AutoFind: Scans 723, 724, 725; Background Corrected with Scan 715

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	29.1	316096	PASS
68	69	0.00	2	1.7	5343	PASS
70	69	0.00	2	0.5	1431	PASS
127	442	10	80	36.8	399616	PASS
197	198	0.00	2	0.3	3474	PASS
198	442	50	100	94.8	1029482	PASS
199	198	5	9	6.4	65876	PASS
275	442	10	60	21.7	235968	PASS
365	198	1	100	2.3	23965	PASS
441	442	0.01	24	15.0	162666	PASS
442	442	50	100	100.0	1085760	PASS
443	442	15	24	19.0	206144	PASS

Injection Log Summary Report

Method : Y:\METHOD\2P080713.M (RTE Integrator)
Title : Method for 8270 analysis for instrument SVMS2
Start (Tune) File ID : Y:\DATA\2S080713\2DFTPP15.D
Injection Date : 7 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 10:00 Total files within period : 15
Sample Directory : Y:\DATA\2S080713\

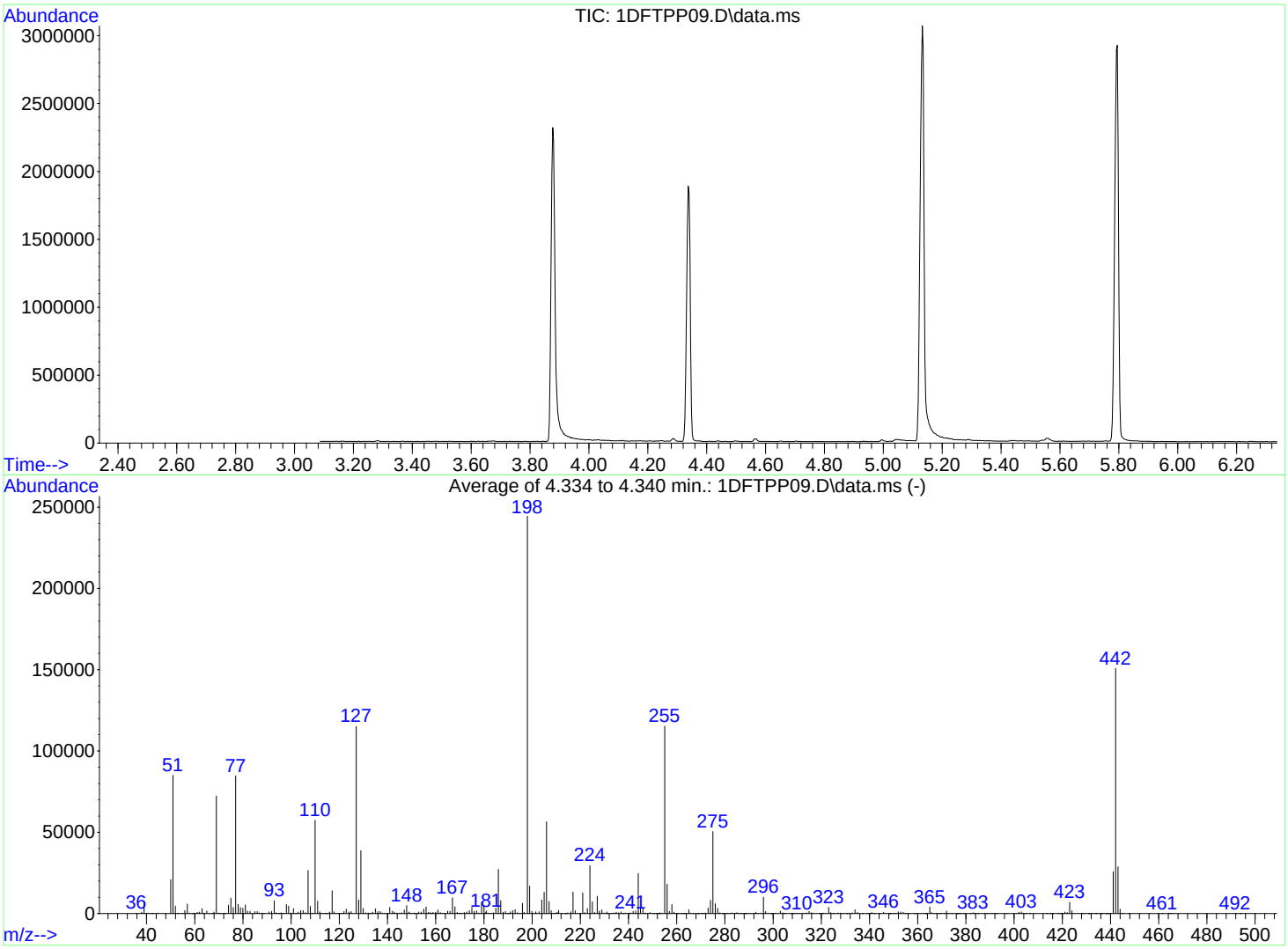
Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
2IB03	1.00	1.00	1.00	InstrumentBlank 500uL+5uL IS SVMS5788	7 Aug 2013	10:16
2ICAL7	1.00	1.00	1.00	ICAL 2000 ng/mL SVMS5720 500uL+5uL IS SVMS5788	7 Aug 2013	10:36
2ICAL6	1.00	1.00	1.00	ICAL 1500 ng/mL SVMS5719 500uL+5uL IS SVMS5788	7 Aug 2013	10:56
2ICAL5	1.00	1.00	1.00	ICAL 1000 ng/mL SVMS5718 500uL+5uL IS SVMS5788	7 Aug 2013	11:16
2ICAL4	1.00	1.00	1.00	ICAL 500 ng/mL SVMS5717 500uL+5uL IS SVMS5788	7 Aug 2013	11:36
2ICAL3	1.00	1.00	1.00	ICAL 100 ng/mL SVMS5716 500uL+5uL IS SVMS5788	7 Aug 2013	11:55
2ICAL2	1.00	1.00	1.00	ICAL 50 ng/mL SVMS5715 500uL+5uL IS SVMS5788	7 Aug 2013	12:15
2ICAL1	1.00	1.00	1.00	ICAL 20 ng/mL SVMS5714 500uL+5uL IS SVMS5788	7 Aug 2013	12:35
2ICV1	1.00	1.00	1.00	ICV1 500 ng/mL SVMS5721 500uL+5uL IS SVMS5788	7 Aug 2013	12:55
2ICV2	1.00	1.00	1.00	ICV2 1500 ng/mL SVMS5722 500uL+5uL IS SVMS5788	7 Aug 2013	13:15

Data File : C:\INSTARCH\Data\1S082013\1DFTPP09.D Vial: 1
Acq On : 20 Aug 2013 12:38 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/20/13

Method : C:\INSTARCH\Methods\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Mon Aug 19 17:25:37 2013



AutoFind: Scans 440, 441, 442; Background Corrected with Scan 429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.8	84984	PASS
68	69	0.00	2	1.3	925	PASS
70	69	0.00	2	0.5	389	PASS
127	198	10	80	47.1	115101	PASS
197	198	0.00	2	0.3	684	PASS
198	198	50	100	100.0	244416	PASS
199	198	5	9	6.9	16916	PASS
275	198	10	60	20.6	50445	PASS
365	198	1	100	1.6	3971	PASS
441	442	0.01	24	17.1	25720	PASS
442	198	50	100	61.7	150730	PASS
443	442	15	24	19.1	28794	PASS

Injection Log Summary Report

Method : X:\METHODS\1S080513.M (RTE Integrator)
Title : Method for 8270 analysis
Start (Tune) File ID : X:\DATA\1S082013\1DFTPP09.D
Injection Date : 20 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 12:38 Total files within period : 16
Sample Directory : X:\DATA\1S082013\

Injection Log Summary Table

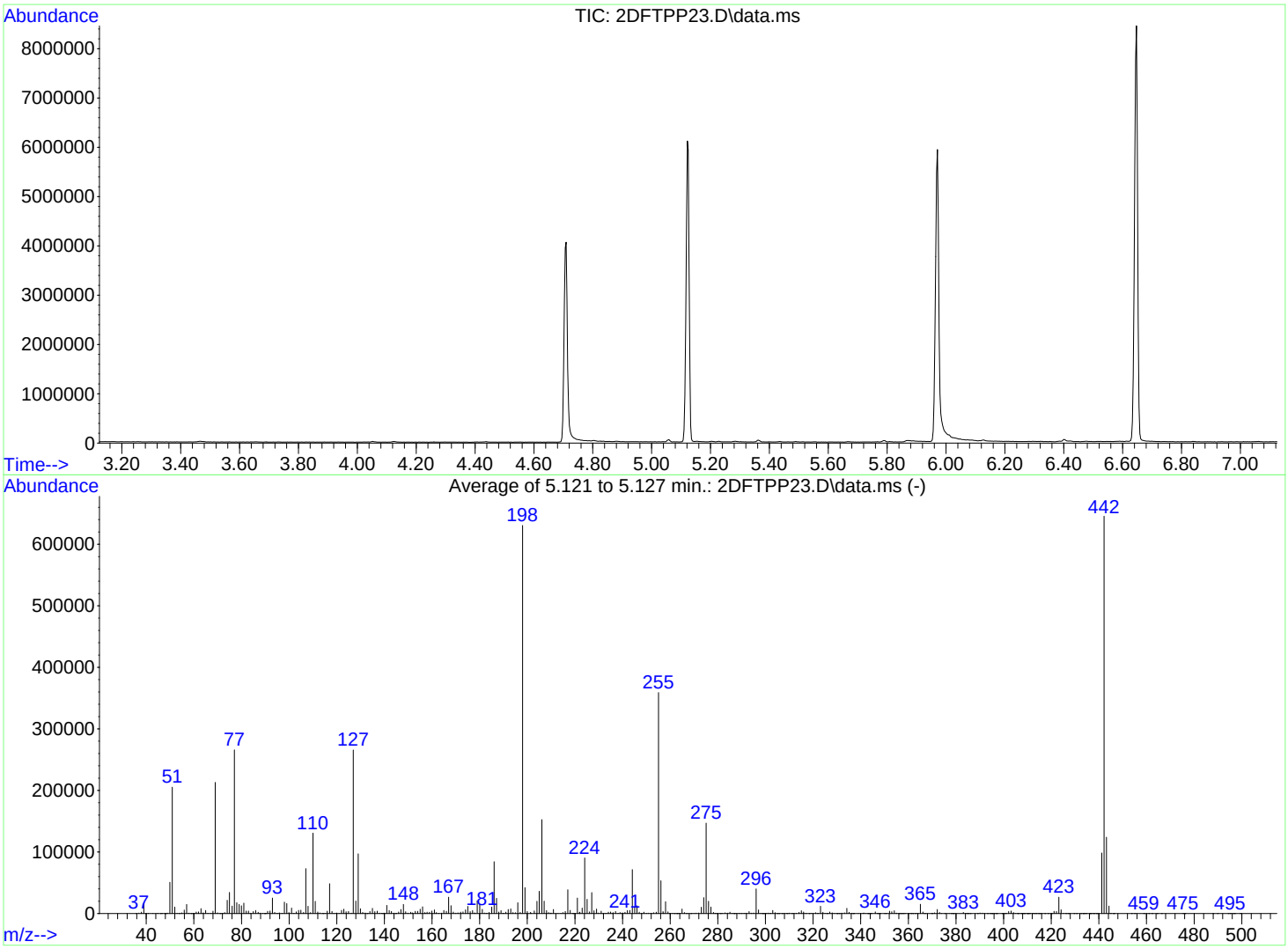
File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
1CCV10	1.00	1.00	1.00	ICAL 20ug/ml SVMS5746 500uL+5ul IS S2805D	20 Aug 2013	12:54
1MRL01	1.00	1.00	1.00	MRL 1/5ug/ml SVMS5799 500uL+5ul IS S2860A	20 Aug 2013	13:21
1MDL01	1.00	1.00	1.00	MDL 0.5/2.5ug/ml SVMS5798 500uL+5ul IS S2860A	20 Aug 2013	13:39
1MBW01	1.00	1.00	1.00	96903,MBW, 339715,500uL+5ul IS S2860	20 Aug 2013	13:57
1LCSW01	1.00	1.00	1.00	96903,LCSW, 339716,500uL+5ul IS S2860	20 Aug 2013	14:17
339561	1.00	1.00	1.00	96903,339561, 500uL+5ul IS S2860A	20 Aug 2013	16:22
1MRL02	1.00	1.00	1.00	MRL 1/5ug/ml SVMS5799 500uL+5ul IS S2860A	20 Aug 2013	16:41
1MDL02	1.00	1.00	1.00	MDL 0.5/2.5ug/ml SVMS5798 500uL+5ul IS S2860A	20 Aug 2013	16:59

DFTPP

Data File : C:\INSTARCH\DATA\2S082113\2DFTPP23.D Vial: 1
Acq On : 21 Aug 2013 10:31 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/21/13

Method : C:\INSTARCH\METHOD\2SIMDFT.M
Title : DFTPP TUNE Method
Last Update : Tue Aug 13 17:56:08 2013



AutoFind: Scans 717, 718, 719; Background Corrected with Scan 706

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	31.8	205215	PASS
68	69	0.00	2	1.8	3833	PASS
70	69	0.00	2	0.5	1160	PASS
127	442	10	80	41.1	265622	PASS
197	198	0.00	2	0.3	1788	PASS
198	442	50	100	97.6	630378	PASS
199	198	5	9	6.7	42090	PASS
275	442	10	60	22.7	146865	PASS
365	198	1	100	2.4	15178	PASS
441	442	0.01	24	15.2	98384	PASS
442	442	50	100	100.0	645568	PASS
443	442	15	24	19.2	124138	PASS

Injection Log Summary Report

Method : Y:\METHOD\2P080713.M (RTE Integrator)
Title : Method for 8270 analysis for instrument SVMS2
Start (Tune) File ID : Y:\DATA\2S082113\2DFTPP23.D
Injection Date : 21 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 10:31 Total files within period : 24
Sample Directory : Y:\DATA\2S082113\

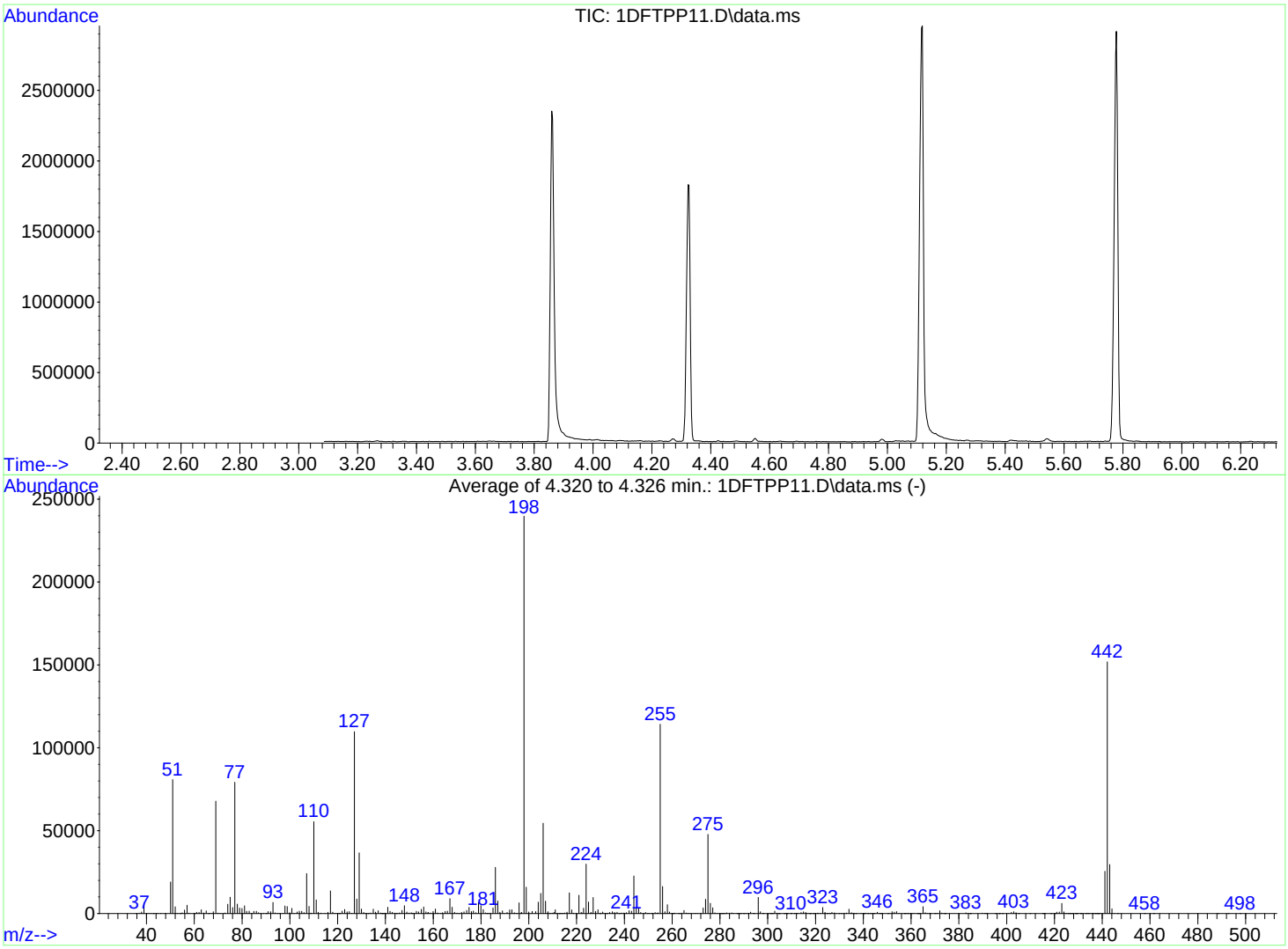
Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
2CCV20	1.00	1.00	1.00	CCV 500 ng/mL SVMS5723 500uL+5uL IS SVMS5788	21 Aug 2013	10:46
2MRL01	1.00	1.00	1.00	MRL 50ng/mL SVMS5715 500uL+5uL IS SVMS5788	21 Aug 2013	11:07
2MRL01	1.00	1.00	1.00	MRL 50ng/mL SVMS5715 500uL+5uL IS SVMS5788	21 Aug 2013	11:07
2MDL01	1.00	1.00	1.00	MDL 20ng/mL SVMS5714 500uL+5uL IS SVMS5788	21 Aug 2013	11:26
2MBW01	1.00	1.00	1.00	96939,MBW, 339737,500uL+5uL IS SVMS5	21 Aug 2013	11:46
2LCSW01	1.00	1.00	1.00	96939,LCSW, 339738,500uL+5uL IS SVMS5	21 Aug 2013	12:06
339561	1.00	1.00	1.00	96939,339561, 500uL+5uL IS SVMS5791	21 Aug 2013	12:26
2MRL02	1.00	1.00	1.00	MRL 50ng/mL SVMS5715 500uL+5uL IS SVMS5788	21 Aug 2013	12:46

Data File : C:\INSTARCH\Data\1S082213\1DFTPP11.D Vial: 1
Acq On : 22 Aug 2013 12:42 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/23/13

Method : C:\INSTARCH\Methods\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Mon Aug 19 17:25:37 2013



AutoFind: Scans 435, 436, 437; Background Corrected with Scan 427

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.7	80801	PASS
68	69	0.00	2	1.6	1081	PASS
70	69	0.00	2	0.4	238	PASS
127	198	10	80	45.8	109738	PASS
197	198	0.00	2	0.3	659	PASS
198	198	50	100	100.0	239722	PASS
199	198	5	9	6.6	15909	PASS
275	198	10	60	19.9	47762	PASS
365	198	1	100	1.8	4215	PASS
441	442	0.01	24	16.8	25525	PASS
442	198	50	100	63.4	151869	PASS
443	442	15	24	19.5	29565	PASS

Injection Log Summary Report

Method : X:\METHODS\1S080513.M (RTE Integrator)
Title : Method for 8270 analysis
Start (Tune) File ID : X:\DATA\1S082213\1DFTPP11.D
Injection Date : 22 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 12:42 Total files within period : 32
Sample Directory : X:\DATA\1S082213\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
1CCV12	1.00	1.00	1.00	ICAL 20ug/ml SVMS5746 500uL+5ul IS S2805D	22 Aug 2013	12:57
1MRL06	1.00	1.00	1.00	MRL 1/5ug/ml SVMS5799 500uL+5ul IS S2860A	22 Aug 2013	13:16
1MDL06	1.00	1.00	1.00	MDL 0.5/2.5ug/ml SVMS5798 500uL+5ul IS S2860A	22 Aug 2013	13:34
1MBW01	1.00	1.00	1.00	97009,MBW, 340736,500uL+5ul IS S2860	22 Aug 2013	13:53
1MBTV01	1.00	1.00	1.00	97009,MBTV, 2364,500uL+5ul IS S2860A	22 Aug 2013	14:11
1MBTS01	1.00	1.00	1.00	97009,MBTS, 2364,500uL+5ul IS S2860A	22 Aug 2013	14:29
1LCSW01	1.00	1.00	1.00	97009,LCSW, 340737,500uL+5ul IS S2860	22 Aug 2013	14:48
339578	1.00	1.00	1.00	97009,339578, 500uL+5ul IS S2860A	22 Aug 2013	15:06
339580	1.00	1.00	1.00	97009,339580, 500uL+5ul IS S2860A	22 Aug 2013	15:25
339580MS	1.00	1.00	1.00	97009,MSW339580, 340739,500uL+5ul IS S2860	22 Aug 2013	15:45
1MRL07	1.00	1.00	1.00	MRL 1/5ug/ml SVMS5799 500uL+5ul IS S2860A	22 Aug 2013	16:02
1MDL07	1.00	1.00	1.00	MDL 0.5/2.5ug/ml SVMS5798 500uL+5ul IS S2860A	22 Aug 2013	16:20

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 5 Aug 2013
Instrument ID : SVMS1 Time Analyzed : 3:57 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	158654	2.75	591736	4.14	467252	6.31
UPPER LIMIT	317308	3.25	1183472	4.64	934504	6.81
LOWER LIMIT	79327	2.25	295868	3.64	233626	5.81
File ID Sample						
1CCV10 ICAL 20ug	151109	2.74	572460	4.12	441795	6.30
1LCSW01 96903,LCS	161460	2.74	626204	4.12	484228	6.30
1MBW01 96903,MBW	163991	2.74	627214	4.12	521735	6.30
1MDL01 MDL 0.5/2	160265	2.74	579505	4.12	470032	6.30
1MDL02 MDL 0.5/2	159653	2.74	554276	4.12	457735	6.29
1MRL01 MRL 1/5ug	160499	2.74	575459	4.12	454777	6.29
1MRL02 MRL 1/5ug	154459	2.74	558146	4.12	452803	6.29
339561 96903,339	175647	2.74	678927	4.12	528785	6.29

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 5 Aug 2013
Instrument ID : SVMS1 Time Analyzed : 3:57 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	738263	7.30	298144	8.74	321526	9.50
UPPER LIMIT	1476526	7.80	596288	9.24	643052	10.00
LOWER LIMIT	369132	6.80	149072	8.24	160763	9.00
File ID Sample						
1CCV10 ICAL 20ug	710421	7.29	296332	8.73	312901	9.49
1LCSW01 96903,LCS	776233	7.29	316924	8.73	334314	9.49
1MBW01 96903,MBW	816070	7.29	367109	8.73	353733	9.49
1MDL01 MDL 0.5/2	701833	7.29	306265	8.73	308778	9.49
1MDL02 MDL 0.5/2	700582	7.29	325769	8.73	299731	9.49
1MRL01 MRL 1/5ug	686828	7.29	327447	8.73	305328	9.49
1MRL02 MRL 1/5ug	698253	7.29	318691	8.73	315769	9.49
339561 96903,339	850828	7.29	392087	8.73	371786	9.49

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 7 Aug 2013
Instrument ID : SVMS2 Time Analyzed : 11:36 am
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	22623	2.62	105129	3.42	66335	4.62
UPPER LIMIT	45246	3.12	210258	3.92	132670	5.12
LOWER LIMIT	11312	2.12	52565	2.92	33168	4.12
File ID Sample						
2CCV20 CCV 500 n	20960	2.62	95123	3.41	56269	4.60
2LCSW01 96939,LCS	20713	2.62	90618	3.41	54291	4.60
2MBW01 96939,MBW	21070	2.62	91237	3.41	53513	4.60
2MDL01 MDL 20ng/	21859	2.62	100503	3.41	61651	4.60
2MRL01 MRL 50ng/	21208	2.62	98643	3.41	60243	4.60
2MRL02 MRL 50ng/	21661	2.62	100700	3.41	61677	4.60
339561 96939,339	21855	2.62	94854	3.41	56246	4.60

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 7 Aug 2013
Instrument ID : SVMS2 Time Analyzed : 11:36 am
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	114860	5.66	98623	7.51	67537	8.76
UPPER LIMIT	229720	6.16	197246	8.01	135074	9.26
LOWER LIMIT	57430	5.16	49312	7.01	33769	8.26
File ID Sample						
2CCV20 CCV 500 n	99300	5.64	91282	7.49	67131	8.73
2LCSW01 96939,LCS	103994	5.64	96308	7.49	70290	8.73
2MBW01 96939,MBW	101095	5.64	89573	7.49	60947	8.73
2MDL01 MDL 20ng/	113733	5.64	99082	7.49	67806	8.73
2MRL01 MRL 50ng/	110975	5.64	96764	7.49	66763	8.73
2MRL02 MRL 50ng/	112972	5.64	99526	7.49	69122	8.73
339561 96939,339	105595	5.64	92847	7.49	63403	8.73

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 5 Aug 2013
Instrument ID : SVMS1 Time Analyzed : 3:57 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	158654	2.75	591736	4.14	467252	6.31
UPPER LIMIT	317308	3.25	1183472	4.64	934504	6.81
LOWER LIMIT	79327	2.25	295868	3.64	233626	5.81
File ID Sample						
1CCV12 ICAL 20ug	143781	2.72	536332	4.10	414568	6.28
1LCSW01 97009,LCS	150606	2.72	542716	4.10	409399	6.28
1MBTS01 97009,MBT	149688	2.72	534278	4.09	423705	6.28
1MBTV01 97009,MBT	154761	2.72	548549	4.09	428143	6.28
1MBW01 97009,MBW	156938	2.72	531079	4.10	418157	6.28
1MDL06 MDL 0.5/2	167357	2.72	580128	4.10	440083	6.28
1MDL07 MDL 0.5/2	171329	2.72	605828	4.09	490825	6.28
1MRL06 MRL 1/5ug	165315	2.72	566963	4.09	431194	6.28
1MRL07 MRL 1/5ug	164423	2.72	584274	4.09	456855	6.28
339578 97009,339	147180	2.72	546273	4.09	431520	6.28
339580 97009,339	153255	2.72	548132	4.09	437543	6.28
339580MS 97009,MSW	146783	2.72	536444	4.10	417131	6.28

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 5 Aug 2013
Instrument ID : SVMS1 Time Analyzed : 3:57 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	738263	7.30	298144	8.74	321526	9.50
UPPER LIMIT	1476526	7.80	596288	9.24	643052	10.00
LOWER LIMIT	369132	6.80	149072	8.24	160763	9.00
File ID Sample						
1CCV12 ICAL 20ug	688549	7.28	279446	8.72	293945	9.48
1LCSW01 97009,LCS	616323	7.28	268149	8.72	282377	9.48
1MBTS01 97009,MBT	653891	7.28	303793	8.72	287193	9.48
1MBTV01 97009,MBT	675289	7.28	316394	8.72	301962	9.48
1MBW01 97009,MBW	673785	7.28	322151	8.72	304985	9.47
1MDL06 MDL 0.5/2	684509	7.28	325388	8.72	309191	9.48
1MDL07 MDL 0.5/2	772153	7.28	353968	8.72	330128	9.48
1MRL06 MRL 1/5ug	691437	7.28	315104	8.72	305630	9.47
1MRL07 MRL 1/5ug	696573	7.28	331778	8.72	315132	9.48
339578 97009,339	677543	7.28	321441	8.72	293211	9.47
339580 97009,339	640260	7.28	296323	8.72	292366	9.48
339580MS 97009,MSW	598157	7.28	273681	8.72	285096	9.48

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

1/5 ug/mL MRL Check Standard %Recovery

Data File Name	1MRL01.D
Data File Path	C:\INSTARCH\Data\1S082013\
Operator	RPN
Date Acquired	8/20/2013 13:21
Acq. Method File	1S080513.M
Sample Name	MRL 1/5ug/ml SVMS5799
Misc Info	500uL+5ul IS S2860A
Vial Number	3
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC	
1)	14Diclbenzd4	2.74	20.00	ug/mL	160499	ISTD	
2)	Ntrsdimeth	1.32	0.67	ug/mL	3936	67	#
3)	Pyridine	1.35	0.78	ug/mL	8520	78	
4)	SURR2Flphenol	1.90	1.65	%REC	7206	66	#
5)	Aniline	2.49	0.93	ug/mL	13335	93	
6)	bis2Clethletr	2.55	1.13	ug/mL	10971	113	
7)	SURRPhenol-d5	2.49	2.55	%REC	11889	102	
8)	Phenol	2.50	4.66	ug/mL	63861	93	
9)	2-Cl-phenol	2.57	5.10	ug/mL	59589	102	
10)	13Diclbenz	2.68	1.07	ug/mL	14555	107	
11)	14Diclbenz	2.75	1.10	ug/mL	14189	110	
12)	12Diclbenz	2.88	1.07	ug/mL	13695	107	
13)	Benzyl alcoho	2.91	0.75	ug/mL	4222	75	
14)	bis2clispreth	3.04	1.10	ug/mL	18039	110	
15)	2Methylphenol	3.03	4.90	ug/mL	38056	98	
16)	Ntrspyrrol	3.13	0.85	ug/mL	3561	85	
17)	Acetophenone	3.14	0.84	ug/mL	10457	84	
18)	Hexaclethane	3.20	1.11	ug/mL	5398	111	
19)	N-Ntrsdinprop	3.17	1.03	ug/mL	5860	103	
20)	3&4Methylphenol	3.20	9.43	ug/mL	88299	105	
21)	Naphthalened8	4.12	20.00	ug/mL	575459	ISTD	
22)	SURRNitrbenzened5	3.29	4.93	%REC	8226	99	
23)	Nitrobenzene	3.31	0.90	ug/mL	7265	90	
24)	Isophorone	3.60	0.98	ug/mL	15142	98	
25)	2-Nitrophenol	3.67	4.85	ug/mL	27782	97	
26)	24Dimthpheno	3.81	5.34	ug/mL	42917	107	
27)	bis2clethoxym	3.93	1.01	ug/mL	11039	101	
28)	24Diclphenol	3.99	4.90	ug/mL	44525	98	
29)	124Triclbenz	4.07	1.20	ug/mL	12244	120	
30)	Benzoic acid	3.99	3.79	ug/mL	17014	76	
31)	Naphthalene	4.14	1.16	ug/mL	32071	116	
32)	4-Cl-aniline	4.30	0.93	ug/mL	10912	93	
33)	26Diclphenol	4.28	6.08	ug/mL	45089	122	
34)	Hexaclprop	4.27	1.08	ug/mL	6621	108	
35)	Hexaclbutdien	4.36	1.19	ug/mL	6454	119	
36)	4Cl3methylphe	5.09	4.45	ug/mL	45015	89	
37)	2Methylnaphth	5.10	2.65	ug/mL	74355	265	#

38)	1Methylnaphth	5.30	1.09	ug/mL	27072	109
39)	Acenaphthened10	6.29	20.00	ug/mL	454777	ISTD
40)	Hxclcycpentdi	5.41	0.75	ug/mL	4961	75
41)	1245Tetrclbenz	5.42	1.18	ug/mL	16523	118
42)	246Triclpheno	5.62	5.11	ug/mL	45755	102
43)	245Triclpheno	5.66	5.11	ug/mL	49998	102
44)	SURR2Flbiphenyl	5.71	5.78	%REC	34585	116
45)	2Clnaphthalen	5.79	1.22	ug/mL	32908	122
46)	2Nitroaniline	5.95	0.92	ug/mL	4919	92
47)	Acnaphthylene	6.17	0.90	ug/mL	51334	90
48)	Dimethylphtha	6.16	0.97	ug/mL	36514	97
49)	26Dinitrotolu	6.19	1.11	ug/mL	7390	111
50)	Acenaphthene	6.32	0.94	ug/mL	27037	94
51)	3Nitroaniline	6.34	0.92	ug/mL	5661	92
52)	24Dinitphenol	6.43	4.57	ug/mL	9155	91
53)	Dibenzofuran	6.46	1.18	ug/mL	41022	118
54)	24Dinitrotolu	6.51	0.94	ug/mL	7848	94
55)	4-Nitrophenol	6.53	3.52	ug/mL	16676	70
56)	2,3,5,6-Tetrachlorop	6.55	1.06	ug/mL	6908	106
57)	2,3,4,6-Tetrachlorop	6.57	5.05	ug/mL	39243	101
58)	Fluorene	6.71	0.95	ug/mL	34186	95
59)	4Clphlphlethr	6.73	0.98	ug/mL	16450	98
60)	Diethylphthal	6.70	1.01	ug/mL	35910	101
61)	4Nitroaniline	6.77	0.99	ug/mL	6068	99
62)	SURR246Tribrphenl	6.87	2.43	%REC	3656	97
63)	Phenanthrd10	7.29	20.00	ug/mL	686828	ISTD
64)	46Dinit2mylph	6.78	4.56	ug/mL	21445	91
65)	Ntrsdiphlam&Diphlam	6.82	2.02	ug/mL	42637	101
66)	Azobenz&12Diphlhyd	6.83	2.04	ug/mL	14984	102
67)	4Brphlphlethr	7.04	1.23	ug/mL	9414	123
68)	Hexaclbenzene	7.06	1.41	ug/mL	11425	141 #
69)	Pentaclphenol	7.20	4.98	ug/mL	25300	100
70)	Phenanthrene	7.30	1.27	ug/mL	44720	127
71)	Anthracene	7.34	1.29	ug/mL	47287	129
72)	Carbazole	7.45	1.26	ug/mL	43479	126
73)	Dinbtylphthal	7.68	1.30	ug/mL	60946	130
74)	Fluoranthene	8.00	1.24	ug/mL	51391	124
75)	Chrysene-d12	8.73	20.00	ug/mL	327447	ISTD
76)	Benzidine	8.11	0.86	ug/mL	10419	86
77)	Pyrene	8.12	1.22	ug/mL	50370	122
78)	SURRTerphenyl-d14	8.23	5.77	%REC	18855	115
79)	Btylbzylphth	8.48	0.99	ug/mL	11428	99
80)	bis2Ethlhxlad	8.53	0.91	ug/mL	8572	91
81)	33Diclbnzidin	8.73	1.27	ug/mL	6328	127
82)	B[a]anthracen	8.73	1.05	ug/mL	19503	105
83)	Chrysene	8.74	1.12	ug/mL	19316	112
84)	bis2Ethlhxlph	8.79	0.95	ug/mL	14634	95
85)	Dinoctylphthl	9.14	0.75	ug/mL	21537	75
86)	Perylene-d12	9.49	20.00	ug/mL	305328	ISTD
87)	B[b]fluoranth	9.29	0.89	ug/mL	15506	89

88)	B[k]fluoranth	9.30	1.35	ug/mL	21608	135 #
89)	Benz[a]pyrene	9.46	1.16	ug/mL	19700	116
90)	Indeno-pyrene	10.04	0.95	ug/mL	17669	95
91)	Dib[ah]anthr	10.06	1.08	ug/mL	14990	108
92)	B[ghi]perylen	10.17	1.13	ug/mL	18785	113

(#) = recovery out of range Average Percent Recovery = 105

1/5 ug/mL MRL Check Standard %Recovery

Data File Name	1MRL02.D
Data File Path	C:\INSTARCH\Data\1S082013\
Operator	RPN
Date Acquired	8/20/2013 16:41
Acq. Method File	1S080513.M
Sample Name	MRL 1/5ug/ml SVMS5799
Misc Info	500uL+5ul IS S2860A
Vial Number	3
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC	
1)	14Diclbenzd4	2.74	20.00	ug/mL	154459	ISTD	
2)	Ntrsdimeth	1.31	0.89	ug/mL	4985	89	
3)	Pyridine	1.35	0.72	ug/mL	7555	72	
4)	SURR2Flphenol	1.90	1.89	%REC	7977	76	
5)	Aniline	2.49	0.91	ug/mL	12563	91	
6)	bis2Clethletr	2.55	0.96	ug/mL	8978	96	
7)	SURRPhenol-d5	2.49	2.34	%REC	10510	94	
8)	Phenol	2.50	4.42	ug/mL	58230	88	
9)	2-Cl-phenol	2.56	4.98	ug/mL	55924	100	
10)	13Diclbenz	2.68	1.10	ug/mL	14418	110	
11)	14Diclbenz	2.75	1.13	ug/mL	13990	113	
12)	12Diclbenz	2.88	1.11	ug/mL	13675	111	
13)	Benzyl alcoho	2.92	0.58	ug/mL	3132	58	#
14)	bis2clispreth	3.04	1.13	ug/mL	17841	113	
15)	2Methylphenol	3.03	4.68	ug/mL	34998	94	
16)	Ntrspyrrol	3.13	0.84	ug/mL	3375	84	
17)	Acetophenone	3.14	1.09	ug/mL	13117	109	
18)	Hexaclethane	3.20	1.15	ug/mL	5356	115	
19)	N-Ntrsdinprop	3.17	1.07	ug/mL	5836	107	
20)	3&4Methylphenol	3.20	9.49	ug/mL	85553	105	
21)	Naphthalened8	4.12	20.00	ug/mL	558146	ISTD	
22)	SURRNitrbenzened5	3.29	4.68	%REC	7569	94	
23)	Nitrobenzene	3.31	0.80	ug/mL	6332	80	
24)	Isophorone	3.60	1.02	ug/mL	15331	102	
25)	2-Nitrophenol	3.67	4.84	ug/mL	26877	97	
26)	24Dimthpheno	3.81	5.20	ug/mL	40486	104	
27)	bis2clethoxym	3.92	0.97	ug/mL	10311	97	
28)	24Diclphenol	3.99	5.15	ug/mL	45309	103	
29)	124Triclbenz	4.07	1.13	ug/mL	11202	113	
30)	Benzoic acid	3.99	3.62	ug/mL	15774	72	
31)	Naphthalene	4.14	1.13	ug/mL	30287	113	
32)	4-Cl-aniline	4.29	1.07	ug/mL	12075	107	
33)	26Diclphenol	4.28	6.08	ug/mL	43719	122	
34)	Hexaclprop	4.27	1.04	ug/mL	6196	104	
35)	Hexaclbutdien	4.35	1.17	ug/mL	6183	117	
36)	4Cl3methylphe	5.09	4.80	ug/mL	47014	96	
37)	2Methylnaphth	5.14	1.32	ug/mL	35867	132	#

38)	1Methylnaphth	5.30	1.10	ug/mL	26593	110
39)	Acenaphthened10	6.29	20.00	ug/mL	452803	ISTD
40)	Hxclcycpentdi	5.41	0.69	ug/mL	4584	69 #
41)	1245Tetrclbenz	5.42	1.18	ug/mL	16379	118
42)	246Triclpheno	5.62	4.70	ug/mL	41892	94
43)	245Triclpheno	5.66	4.74	ug/mL	46123	95
44)	SURR2Flbiphenyl	5.71	5.82	%REC	34643	116
45)	2Clnaphthalen	5.79	1.09	ug/mL	29382	109
46)	2Nitroaniline	5.96	0.80	ug/mL	4233	80
47)	Acnaphthylene	6.17	0.85	ug/mL	49060	85
48)	Dimethylphtha	6.16	0.92	ug/mL	34972	92
49)	26Dinitrotolu	6.19	0.96	ug/mL	6316	96
50)	Acenaphthene	6.32	0.98	ug/mL	28020	98
51)	3Nitroaniline	6.33	0.97	ug/mL	5989	97
52)	24Dinitphenol	6.43	4.40	ug/mL	8236	88
53)	Dibenzofuran	6.46	1.19	ug/mL	41028	119
54)	24Dinitrotolu	6.51	1.00	ug/mL	8320	100
55)	4-Nitrophenol	6.54	3.98	ug/mL	18786	80
56)	2,3,5,6-Tetrachlorop	6.55	0.99	ug/mL	6412	99
57)	2,3,4,6-Tetrachlorop	6.57	5.43	ug/mL	42033	109
58)	Fluorene	6.70	0.94	ug/mL	33657	94
59)	4Clphlphlethr	6.73	0.95	ug/mL	15958	95
60)	Diethylphthal	6.70	0.93	ug/mL	33662	93
61)	4Nitroaniline	6.77	0.91	ug/mL	5573	91
62)	SURR246Tribrphenl	6.87	2.91	%REC	4359	116
63)	Phenanthrd10	7.29	20.00	ug/mL	698253	ISTD
64)	46Dinit2mylph	6.78	4.13	ug/mL	19754	83
65)	Ntrsdiphlam&Diphlam	6.82	1.82	ug/mL	40106	91
66)	Azobenz&12Diphlhyd	6.83	1.85	ug/mL	14159	92
67)	4Brphlphlethr	7.04	1.15	ug/mL	9005	115
68)	Hexaclbenzene	7.06	1.37	ug/mL	11212	137 #
69)	Pentaclphenol	7.20	4.63	ug/mL	23945	93
70)	Phenanthrene	7.30	1.28	ug/mL	45835	128
71)	Anthracene	7.34	1.26	ug/mL	46861	126
72)	Carbazole	7.45	1.21	ug/mL	42469	121
73)	Dinbtylphthal	7.68	1.24	ug/mL	59144	124
74)	Fluoranthene	8.00	1.20	ug/mL	50291	120
75)	Chrysene-d12	8.73	20.00	ug/mL	318691	ISTD
76)	Benzidine	8.11	0.71	ug/mL	8336	71
77)	Pyrene	8.12	1.20	ug/mL	48297	120
78)	SURRTerphenyl-d14	8.23	5.82	%REC	18501	116
79)	Btylbzylphth	8.48	0.93	ug/mL	10470	93
80)	bis2Ethlhxlad	8.53	0.84	ug/mL	7716	84
81)	33Diclbnzidin	8.73	1.23	ug/mL	5964	123
82)	B[a]anthracen	8.73	1.01	ug/mL	18358	101
83)	Chrysene	8.74	1.12	ug/mL	18748	112
84)	bis2Ethlhxlph	8.79	0.96	ug/mL	14393	96
85)	Dinoctylphthl	9.14	0.80	ug/mL	22146	80
86)	Perylene-d12	9.49	20.00	ug/mL	315769	ISTD
87)	B[b]fluoranth	9.29	0.97	ug/mL	17341	97

88) B[k]fluoranth	9.30	1.14	ug/mL	18969	114
89) Benz[a]pyrene	9.46	1.13	ug/mL	19866	113
90) Indeno-pyrene	10.04	1.02	ug/mL	19741	102
91) Dib[ah]anthr	10.06	1.05	ug/mL	15053	105
92) B[ghi]perylen	10.17	1.12	ug/mL	19327	112

(#) = recovery out of range Average Percent Recovery = 101

50 ng/mL MRL CHECK STANDARD % RECOVERY

Data File Name 2MRL01.D
Data File Path C:\INSTARCH\DATA\2S082113\
Operator RPN
Date Acquired 8/21/2013 11:07
Acq. Method File 2P080713.M
Sample Name MRL 50ng/mL SVMS5715
Misc Info 500uL+5uL IS SVMS5788
Vial Number 3
Instrument Name SVMS2

#	Name	R.T.	Amount	Units	Response	% REC	% LIMIT (70-130)	Status
1)	14Diclbenzd4	2.62	1000.00	ng/mL	21208	ISTD	ISTD	
2)	Naphthalened8	3.41	1000.00	ng/mL	98643	ISTD	ISTD	
3)	SURRNitrbenzened5	2.99	4.58	%REC	1261	91.6	SURR	
4)	Naphthalene	3.42	50.31	ng/mL	4373	100.6	30.0	
5)	2Methylnaphth	3.90	50.58	ng/mL	2585	101.2	30.0	
6)	1Methylnaphth	3.95	49.30	ng/mL	3264	98.6	30.0	
7)	Acenaphthened10	4.60	1000.00	ng/mL	60243	ISTD	ISTD	
8)	SURR2Flbiphenyl	4.15	5.67	%REC	3911	113.4	SURR	
9)	Acnaphthylene	4.50	47.23	ng/mL	3678	94.5	30.0	
10)	Acenaphthene	4.62	49.78	ng/mL	2917	99.6	30.0	
11)	Fluorene	4.99	51.17	ng/mL	3293	102.3	30.0	
12)	Phenanthrd10	5.64	1000.00	ng/mL	110975	ISTD	ISTD	
13)	Phenanthrene	5.65	53.68	ng/mL	5073	107.4	30.0	
14)	Anthracene	5.69	44.72	ng/mL	4919	89.4	30.0	
15)	Fluoranthene	6.49	46.80	ng/mL	5855	93.6	30.0	
16)	Chrysene-d12	7.49	1000.00	ng/mL	96764	ISTD	ISTD	
17)	Pyrene	6.64	47.88	ng/mL	5917	95.8	30.0	
18)	SURRTerphenyl-d14	6.77	4.96	% REC	3204	99.2	SURR	
19)	B[a]anthracen	7.49	54.41	ng/mL	4148	108.8	30.0	
20)	Chrysene	7.51	49.08	ng/mL	5777	98.2	30.0	
21)	Perylene-d12	8.73	1000.00	ng/mL	66763	ISTD	ISTD	
22)	B[b]fluoranth	8.36	47.23	ng/mL	2999	94.5	30.0	
23)	B[k]fluoranth	8.39	47.73	ng/mL	4371	95.5	30.0	
24)	Benz[a]pyrene	8.67	35.01	ng/mL	2387	70.0	30.0	
25)	Indeno-pyrene	10.00	47.72	ng/mL	2353	95.4	30.0	
26)	Dib[ah]anthr	10.03	50.06	ng/mL	1770	100.1	30.0	
27)	B[ghi]perylen	10.30	48.99	ng/mL	2383	98.0	30.0	

* = % REC <70% OR >130%

50 ng/mL MRL CHECK STANDARD % RECOVERY

Data File Name 2MRL02.D
Data File Path C:\INSTARCH\DATA\2S082113\
Operator RPN
Date Acquired 8/21/2013 12:46
Acq. Method File 2P080713.M
Sample Name MRL 50ng/mL SVMS5715
Misc Info 500uL+5uL IS SVMS5788
Vial Number 3
Instrument Name SVMS2

#	Name	R.T.	Amount	Units	Response	% REC	% LIMIT (70-130)	Status
1)	14Diclbenzd4	2.62	1000.00	ng/mL	21661	ISTD	ISTD	
2)	Naphthalened8	3.41	1000.00	ng/mL	100700	ISTD	ISTD	
3)	SURRNitrbenzened5	3.01	3.66	%REC	1029	73.2	SURR	
4)	Naphthalene	3.42	50.73	ng/mL	4501	101.5	30.0	
5)	2Methylnaphth	3.90	47.67	ng/mL	2487	95.3	30.0	
6)	1Methylnaphth	3.96	49.51	ng/mL	3346	99.0	30.0	
7)	Acenaphthened10	4.60	1000.00	ng/mL	61677	ISTD	ISTD	
8)	SURR2Flbiphenyl	4.15	4.75	%REC	3354	95.0	SURR	
9)	Acnaphthylene	4.51	46.31	ng/mL	3692	92.6	30.0	
10)	Acenaphthene	4.62	49.24	ng/mL	2954	98.5	30.0	
11)	Fluorene	4.99	49.77	ng/mL	3279	99.5	30.0	
12)	Phenanthrd10	5.64	1000.00	ng/mL	112972	ISTD	ISTD	
13)	Phenanthrene	5.65	53.27	ng/mL	5125	106.5	30.0	
14)	Anthracene	5.69	45.09	ng/mL	5049	90.2	30.0	
15)	Fluoranthene	6.49	46.34	ng/mL	5902	92.7	30.0	
16)	Chrysene-d12	7.49	1000.00	ng/mL	99526	ISTD	ISTD	
17)	Pyrene	6.64	46.87	ng/mL	5958	93.7	30.0	
18)	SURRTerphenyl-d14	6.77	4.81	% REC	3196	96.2	SURR	
19)	B[a]anthracen	7.49	51.31	ng/mL	4023	102.6	30.0	
20)	Chrysene	7.51	47.55	ng/mL	5757	95.1	30.0	
21)	Perylene-d12	8.73	1000.00	ng/mL	69122	ISTD	ISTD	
22)	B[b]fluoranth	8.36	43.61	ng/mL	2867	87.2	30.0	
23)	B[k]fluoranth	8.39	43.39	ng/mL	4114	86.8	30.0	
24)	Benz[a]pyrene	8.67	44.69	ng/mL	3155	89.4	30.0	
25)	Indeno-pyrene	9.99	44.82	ng/mL	2288	89.6	30.0	
26)	Dib[ah]anthr	10.03	46.99	ng/mL	1720	94.0	30.0	
27)	B[ghi]perylen	10.29	48.66	ng/mL	2451	97.3	30.0	

* = % REC <70% OR >130%

1/5 ug/mL MRL Check Standard %Recovery

Data File Name	1MRL06.D
Data File Path	C:\INSTARCH\Data\1S082213\
Operator	RPN
Date Acquired	8/22/2013 13:16
Acq. Method File	1S080513.M
Sample Name	MRL 1/5ug/ml SVMS5799
Misc Info	500uL+5ul IS S2860A
Vial Number	3
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC	
1)	14Diclbenzd4	2.72	20.00	ug/mL	165315	ISTD	
2)	Ntrsdimeth	1.31	0.68	ug/mL	4079	68	#
3)	Pyridine	1.35	0.66	ug/mL	7465	66	#
4)	SURR2Flphenol	1.89	2.02	%REC	9084	81	
5)	Aniline	2.47	1.01	ug/mL	14906	101	
6)	bis2Clethletr	2.54	1.09	ug/mL	10912	109	
7)	SURRPhenol-d5	2.47	2.44	%REC	11742	98	
8)	Phenol	2.48	4.29	ug/mL	60590	86	
9)	2-Cl-phenol	2.55	5.26	ug/mL	63193	105	
10)	13Diclbenz	2.67	1.06	ug/mL	14908	106	
11)	14Diclbenz	2.74	1.08	ug/mL	14285	108	
12)	12Diclbenz	2.86	1.05	ug/mL	13827	105	
13)	Benzyl alcoho	2.90	0.23	ug/mL	1317	23	#
14)	bis2clispreth	3.02	1.07	ug/mL	18005	107	
15)	2Methylphenol	3.01	4.64	ug/mL	37138	93	
16)	Ntrspyrrol	3.11	0.85	ug/mL	3663	85	
17)	Acetophenone	3.12	1.00	ug/mL	12842	100	
18)	Hexaclethane	3.18	1.10	ug/mL	5501	110	
19)	N-Ntrsdinprop	3.15	0.97	ug/mL	5637	97	
20)	3&4Methylphenol	3.18	9.06	ug/mL	87466	101	
21)	Naphthalened8	4.09	20.00	ug/mL	566963	ISTD	
22)	SURRNitrbenzened5	3.27	4.75	%REC	7809	95	
23)	Nitrobenzene	3.29	0.96	ug/mL	7699	96	
24)	Isophorone	3.58	0.99	ug/mL	15103	99	
25)	2-Nitrophenol	3.65	5.06	ug/mL	28548	101	
26)	24Dimthpheno	3.79	5.61	ug/mL	44351	112	
27)	bis2clethoxym	3.91	0.90	ug/mL	9728	90	
28)	24Diclphenol	3.97	5.21	ug/mL	46619	104	
29)	124Triclbenz	4.05	1.27	ug/mL	12784	127	
30)	Benzoic acid	3.97	4.46	ug/mL	19740	89	
31)	Naphthalene	4.12	1.10	ug/mL	30105	110	
32)	4-Cl-aniline	4.27	1.10	ug/mL	12646	110	
33)	26Diclphenol	4.26	5.86	ug/mL	42791	117	
34)	Hexaclprop	4.25	1.05	ug/mL	6323	105	
35)	Hexaclbutdien	4.34	1.10	ug/mL	5908	110	
36)	4Cl3methylphe	5.07	4.42	ug/mL	44017	88	
37)	2Methylnaphth	5.12	1.29	ug/mL	35640	129	

38)	1Methylnaphth	5.27	1.11	ug/mL	27145	111
39)	Acenaphthened10	6.28	20.00	ug/mL	431194	ISTD
40)	Hxclcycpentdi	5.39	0.82	ug/mL	5152	82
41)	1245Tetrclbenz	5.39	1.30	ug/mL	17278	130 #
42)	246Triclpheno	5.59	5.45	ug/mL	46246	109
43)	245Triclpheno	5.64	5.39	ug/mL	50005	108
44)	SURR2Flbiphenyl	5.70	5.87	%REC	33295	117
45)	2Clnaphthalen	5.77	1.18	ug/mL	30120	118
46)	2Nitroaniline	5.93	0.84	ug/mL	4235	84
47)	Acnaphthylene	6.15	0.87	ug/mL	47310	87
48)	Dimethylphtha	6.15	0.95	ug/mL	33997	95
49)	26Dinitrotolu	6.18	1.07	ug/mL	6759	107
50)	Acenaphthene	6.30	0.94	ug/mL	25776	94
51)	3Nitroaniline	6.31	0.95	ug/mL	5541	95
52)	24Dinitphenol	6.40	5.55	ug/mL	13423	111
53)	Dibenzofuran	6.45	1.20	ug/mL	39440	120
54)	24Dinitrotolu	6.49	1.10	ug/mL	8687	110
55)	4-Nitrophenol	6.51	4.32	ug/mL	19375	86
56)	2,3,5,6-Tetrachlorop	6.53	1.14	ug/mL	7028	114
57)	2,3,4,6-Tetrachlorop	6.56	5.25	ug/mL	38703	105
58)	Fluorene	6.69	0.98	ug/mL	33161	98
59)	4Clphlphlethr	6.72	0.96	ug/mL	15312	96
60)	Diethylphthal	6.68	0.94	ug/mL	32156	94
61)	4Nitroaniline	6.75	0.85	ug/mL	4915	85
62)	SURR246Tribrphenl	6.86	2.54	%REC	3629	102
63)	Phenanthrd10	7.28	20.00	ug/mL	691437	ISTD
64)	46Dinit2mylph	6.77	4.81	ug/mL	22779	96
65)	Ntrsdiphlam&Diphlam	6.81	1.73	ug/mL	38206	87
66)	Azobenz&12Diphlhyd	6.82	1.72	ug/mL	13304	86
67)	4Brphlphlethr	7.03	1.14	ug/mL	8833	114
68)	Hexaclbenzene	7.04	1.25	ug/mL	10152	125
69)	Pentaclphenol	7.18	5.18	ug/mL	26535	104
70)	Phenanthrene	7.29	1.26	ug/mL	44600	126
71)	Anthracene	7.32	1.26	ug/mL	46461	126
72)	Carbazole	7.44	1.17	ug/mL	40628	117
73)	Dinbtylphthal	7.67	1.29	ug/mL	60852	129
74)	Fluoranthene	7.98	1.18	ug/mL	49114	118
75)	Chrysene-d12	8.72	20.00	ug/mL	315104	ISTD
76)	Benzidine	8.09	0.83	ug/mL	9593	83
77)	Pyrene	8.11	1.22	ug/mL	48193	122
78)	SURRTerphenyl-d14	8.21	6.08	%REC	19106	122
79)	Btylbzylphth	8.46	1.03	ug/mL	11437	103
80)	bis2Ethlhxlad	8.52	1.02	ug/mL	9237	102
81)	33Diclbnzidin	8.72	1.19	ug/mL	5723	119
82)	B[a]anthracen	8.71	1.13	ug/mL	20208	113
83)	Chrysene	8.73	1.20	ug/mL	19942	120
84)	bis2Ethlhxlph	8.78	1.08	ug/mL	15965	108
85)	Dinoctylphthl	9.12	0.93	ug/mL	25456	93
86)	Perylene-d12	9.47	20.00	ug/mL	305630	ISTD
87)	B[b]fluoranth	9.27	1.05	ug/mL	18252	105

88) B[k]fluoranth	9.28	1.17	ug/mL	18774	117
89) Benz[a]pyrene	9.44	1.16	ug/mL	19754	116
90) Indeno-pyrene	10.03	1.12	ug/mL	20861	112
91) Dib[ah]anthr	10.04	1.14	ug/mL	15847	114
92) B[ghi]perylen	10.15	1.17	ug/mL	19609	117

(#) = recovery out of range Average Percent Recovery = 103

1/5 ug/mL MRL Check Standard %Recovery

Data File Name	1MRL07.D
Data File Path	C:\INSTARCH\Data\1S082213\
Operator	RPN
Date Acquired	8/22/2013 16:02
Acq. Method File	1S080513.M
Sample Name	MRL 1/5ug/ml SVMS5799
Misc Info	500uL+5ul IS S2860A
Vial Number	3
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC	
1)	14Diclbenzd4	2.72	20.00	ug/mL	164423	ISTD	
2)	Ntrsdimeth	1.30	0.92	ug/mL	5522	92	
3)	Pyridine	1.34	0.67	ug/mL	7473	67	#
4)	SURR2Flphenol	1.89	1.96	%REC	8793	78	
5)	Aniline	2.47	1.00	ug/mL	14683	100	
6)	bis2Clethletr	2.53	1.14	ug/mL	11310	114	
7)	SURRPhenol-d5	2.47	2.45	%REC	11732	98	
8)	Phenol	2.48	4.58	ug/mL	64301	92	
9)	2-Cl-phenol	2.55	4.89	ug/mL	58431	98	
10)	13Diclbenz	2.66	1.08	ug/mL	15010	108	
11)	14Diclbenz	2.74	1.11	ug/mL	14677	111	
12)	12Diclbenz	2.86	1.05	ug/mL	13756	105	
13)	Benzyl alcoho	0.00	0.00	ug/mL	0	0	#
14)	bis2clispreth	3.02	1.07	ug/mL	17901	107	
15)	2Methylphenol	3.01	5.34	ug/mL	42496	107	
16)	Ntrspyrrol	3.11	1.02	ug/mL	4349	102	
17)	Acetophenone	3.12	0.95	ug/mL	12192	95	
18)	Hexaclethane	3.18	1.04	ug/mL	5175	104	
19)	N-Ntrsdinprop	3.15	1.03	ug/mL	5950	103	
20)	3&4Methylphenol	3.18	9.66	ug/mL	92746	107	
21)	Naphthalened8	4.09	20.00	ug/mL	584274	ISTD	
22)	SURRNitrbenzened5	3.27	5.30	%REC	8981	106	
23)	Nitrobenzene	3.29	1.01	ug/mL	8322	101	
24)	Isophorone	3.58	1.04	ug/mL	16417	104	
25)	2-Nitrophenol	3.65	5.08	ug/mL	29545	102	
26)	24Dimthpheno	3.79	5.82	ug/mL	47481	116	
27)	bis2clethoxym	3.91	1.05	ug/mL	11665	105	
28)	24Diclphenol	3.97	5.20	ug/mL	47948	104	
29)	124Triclbenz	4.05	1.19	ug/mL	12313	119	
30)	Benzoic acid	3.97	4.93	ug/mL	22505	99	
31)	Naphthalene	4.12	1.11	ug/mL	31092	111	
32)	4-Cl-aniline	4.27	1.02	ug/mL	12119	102	
33)	26Diclphenol	4.26	6.08	ug/mL	45808	122	
34)	Hexaclprop	4.25	1.02	ug/mL	6377	102	
35)	Hexaclbutdien	4.34	1.14	ug/mL	6277	114	
36)	4Cl3methylphe	5.08	4.88	ug/mL	50058	98	
37)	2Methylnaphth	5.12	2.57	ug/mL	73166	257	#

38)	1Methylnaphth	5.27	1.15	ug/mL	28981	115
39)	Acenaphthened10	6.28	20.00	ug/mL	456855	ISTD
40)	Hxclcycpentdi	5.39	0.82	ug/mL	5463	82
41)	1245Tetrclbenz	5.39	1.24	ug/mL	17399	124
42)	246Triclpheno	5.59	5.16	ug/mL	46373	103
43)	245Triclpheno	5.65	5.21	ug/mL	51150	104
44)	SURR2Flbiphenyl	5.69	5.97	%REC	35827	119
45)	2Clnaphthalen	5.77	1.17	ug/mL	31617	117
46)	2Nitroaniline	5.93	0.95	ug/mL	5062	95
47)	Acnaphthylene	6.15	0.88	ug/mL	50712	88
48)	Dimethylphtha	6.15	0.90	ug/mL	34790	90
49)	26Dinitrotolu	6.18	1.09	ug/mL	7297	109
50)	Acenaphthene	6.30	0.94	ug/mL	27206	94
51)	3Nitroaniline	6.31	1.15	ug/mL	7154	115
52)	24Dinitphenol	6.40	5.45	ug/mL	13692	109
53)	Dibenzofuran	6.45	1.24	ug/mL	43381	124
54)	24Dinitrotolu	6.49	1.11	ug/mL	9295	111
55)	4-Nitrophenol	6.52	5.52	ug/mL	26251	110
56)	2,3,5,6-Tetrachlorop	6.53	1.05	ug/mL	6903	105
57)	2,3,4,6-Tetrachlorop	6.56	5.60	ug/mL	43717	112
58)	Fluorene	6.69	0.94	ug/mL	34022	94
59)	4Clphlphlethr	6.72	0.96	ug/mL	16303	96
60)	Diethylphthal	6.68	0.95	ug/mL	34572	95
61)	4Nitroaniline	6.75	1.12	ug/mL	6901	112
62)	SURR246Tribrphenl	6.86	2.92	%REC	4417	117
63)	Phenanthrd10	7.28	20.00	ug/mL	696573	ISTD
64)	46Dinit2mylph	6.77	5.15	ug/mL	24610	103
65)	Ntrsdiphlam&Diphlam	6.81	1.87	ug/mL	40829	94
66)	Azobenz&12Diphlhyd	6.82	2.03	ug/mL	15157	102
67)	4Brphlphlethr	7.03	1.21	ug/mL	9422	121
68)	Hexaclbenzene	7.04	1.41	ug/mL	11512	141 #
69)	Pentaclphenol	7.19	5.50	ug/mL	28385	110
70)	Phenanthrene	7.29	1.22	ug/mL	43668	122
71)	Anthracene	7.32	1.32	ug/mL	48931	132 #
72)	Carbazole	7.44	1.31	ug/mL	45866	131 #
73)	Dinbtylphthal	7.67	1.37	ug/mL	65125	137 #
74)	Fluoranthene	7.98	1.29	ug/mL	54257	129
75)	Chrysene-d12	8.72	20.00	ug/mL	331778	ISTD
76)	Benzidine	8.09	0.69	ug/mL	8481	69 #
77)	Pyrene	8.11	1.28	ug/mL	53611	128
78)	SURRTerphenyl-d14	8.21	6.09	%REC	20144	122
79)	Btylbzylphth	8.47	1.01	ug/mL	11777	101
80)	bis2Ethlhxlad	8.52	1.03	ug/mL	9809	103
81)	33Diclbnzidin	8.72	1.30	ug/mL	6565	130 #
82)	B[a]anthracen	8.71	1.13	ug/mL	21272	113
83)	Chrysene	8.73	1.17	ug/mL	20469	117
84)	bis2Ethlhxlph	8.78	1.07	ug/mL	16691	107
85)	Dinoctylphthl	9.12	1.02	ug/mL	29585	102
86)	Perylene-d12	9.48	20.00	ug/mL	315132	ISTD
87)	B[b]fluoranth	9.27	1.13	ug/mL	20205	113

88) B[k]fluoranth	9.29	1.22	ug/mL	20156	122
89) Benz[a]pyrene	9.44	1.21	ug/mL	21248	121
90) Indeno-pyrene	10.03	1.16	ug/mL	22272	116
91) Dib[ah]anthr	10.04	1.19	ug/mL	17111	119
92) B[ghi]perylen	10.15	1.20	ug/mL	20594	120

(#) = recovery out of range Average Percent Recovery = 108

SEMI - VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\339561.D Vial: 7
Acq On : 20 Aug 2013 16:22 Operator: RPN
Sample : 96903,339561, Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 17:01:11 2013

RPN
08/20/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 20 16:55:54 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

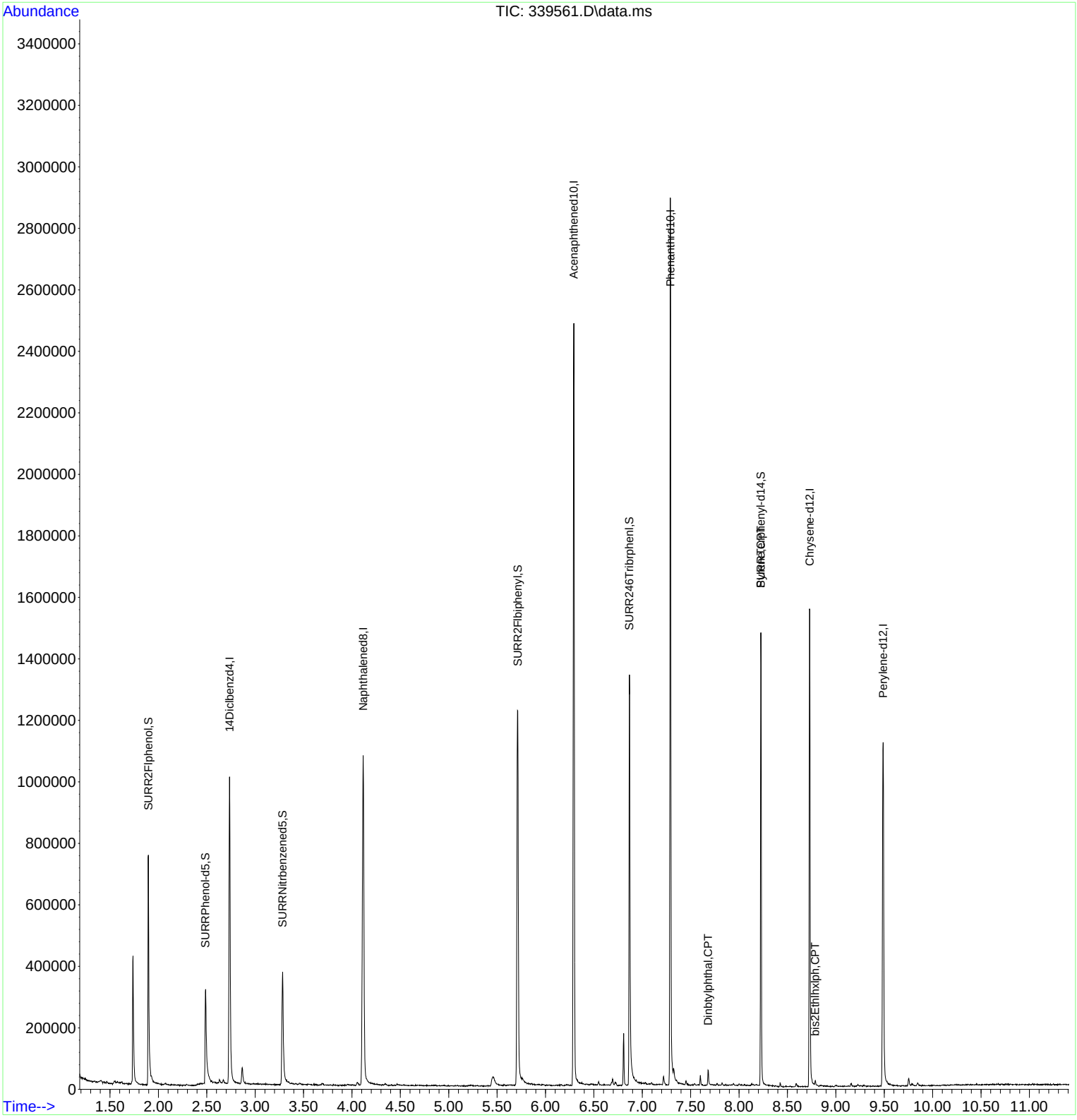
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.735	152	175647	20.00	ug/mL	-0.02
21) Naphthalened8	4.116	136	678927	20.00	ug/mL	-0.02
39) Acenaphthened10	6.293	164	528785	20.00	ug/mL	-0.01
63) Phenanthrd10	7.290	188	850828	20.00	ug/mL	-0.01
75) Chrysene-d12	8.731	240	392087	20.00	ug/mL	0.00
86) Perylene-d12	9.490	264	371786	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.897	112	199339	41.63	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 41.63%			
7) SURRPhenol-d5	2.485	99	140051	27.42	%REC	-0.02
Spiked Amount 100.000	Range 10 - 115		Recovery = 27.42%			
22) SURRNitrbenzened5	3.284	82	140025	71.16	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 71.16%			
44) SURR2Flbiphenyl	5.713	172	483761	69.59	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 69.59%			
62) SURR246Tribrphenl	6.867	330	141918	81.10	%REC	-0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 81.10%			
78) SURRTerphenyl-d14	8.225	244	316315	80.90	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 80.90%			
Target Compounds						Qvalue
60) Diethylphthal	6.696	149	2847	Below Cal		92
65) Ntrsdiphlam&Diphlam	6.816	169	403	Below Cal	#	45
73) Dinbtylphthal	7.680	149	15421	0.2653	ug/mL	99
77) Pyrene	8.225	202	1047	0.0212	ug/mL	85
84) bis2Ethlhxlph	8.788	149	3711	0.2015	ug/mL	97

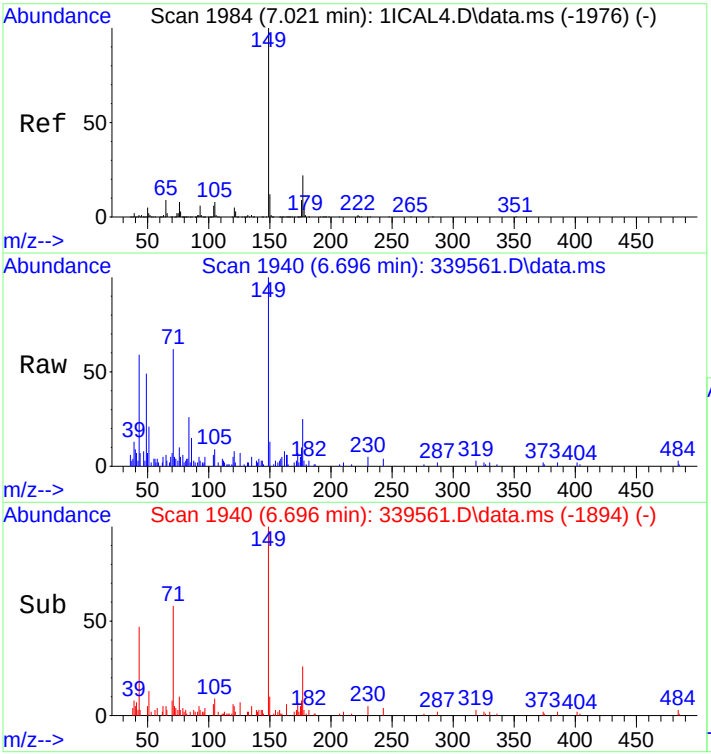
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\339561.D Vial: 7
Acq On : 20 Aug 2013 16:22 Operator: RPN
Sample : 96903,339561, Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 17:01:11 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 20 16:55:54 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

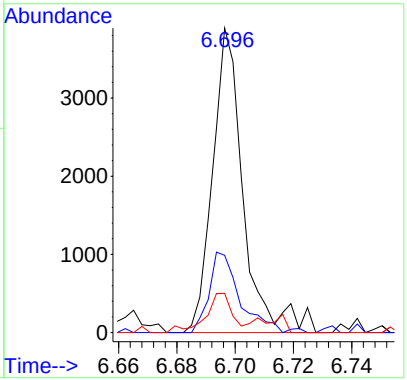


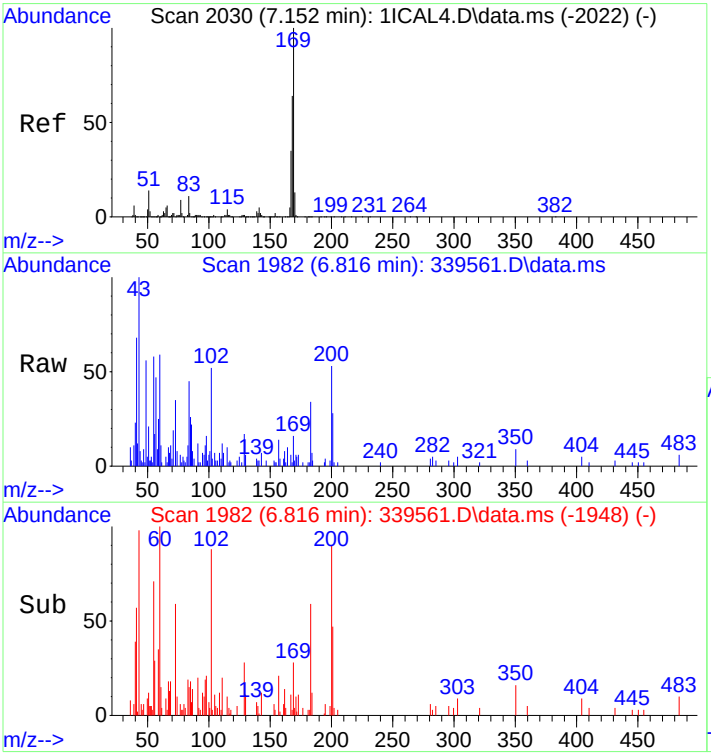


#60
Diethylphthal
Concen: Below ug/mL
RT: 6.696 min Scan# 1940
Delta R.T. -0.014 min
Lab File: 339561.D
Acq: 20 Aug 13 4:22 pm

Tgt Ion:149 Resp: 2847

Ion	Ratio	Lower	Upper
149	100		
177	25.4	0.0	49.9
150	12.9	0.0	42.4

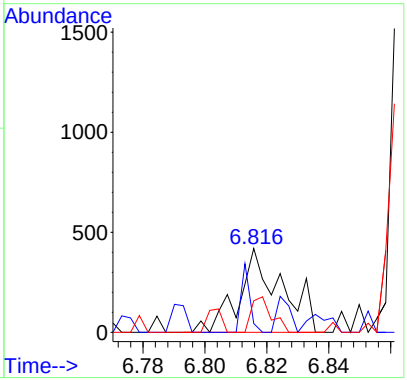


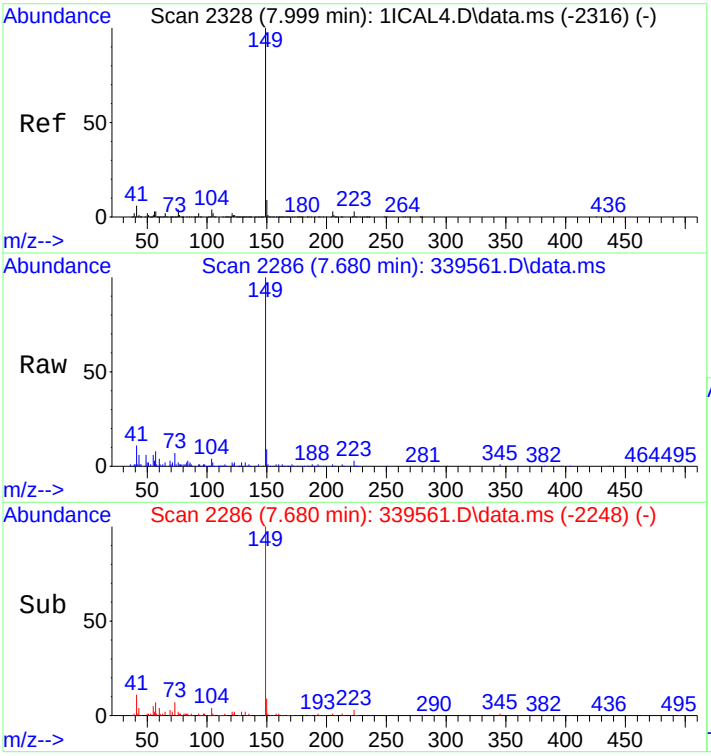


#65
Ntrsdiphlam&Diphlam
Concen: Below ug/mL
RT: 6.816 min Scan# 1982
Delta R.T. -0.020 min
Lab File: 339561.D
Acq: 20 Aug 13 4:22 pm

Tgt Ion:169 Resp: 403

Ion	Ratio	Lower	Upper
169	100		
168	0.0	34.5	94.5#
167	32.5	4.6	64.6

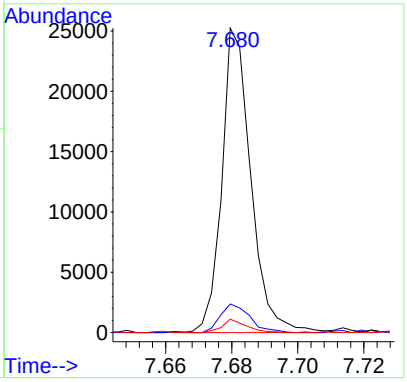


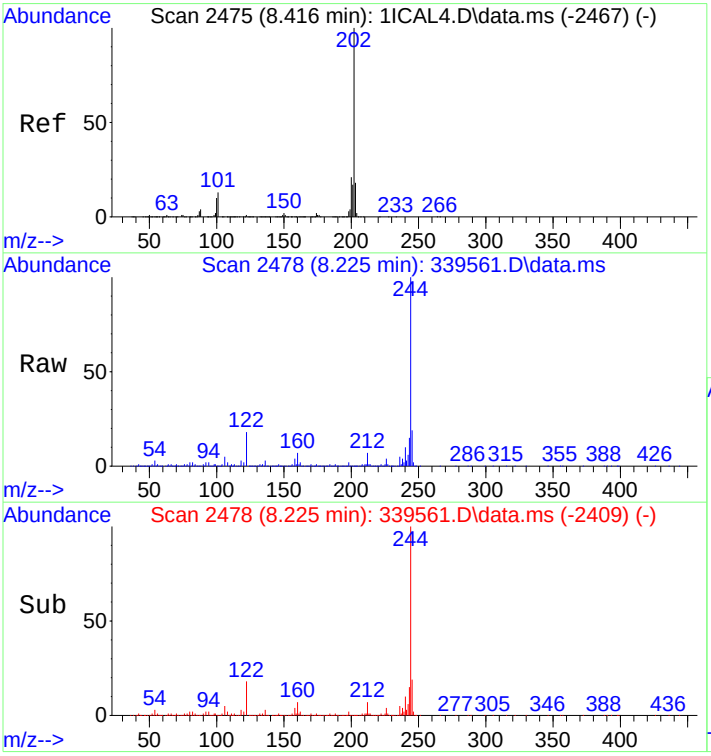


#73
Dinbtylphthal
Concen: 0.27 ug/mL
RT: 7.680 min Scan# 2286
Delta R.T. -0.008 min
Lab File: 339561.D
Acq: 20 Aug 13 4:22 pm

Tgt Ion:149 Resp: 15421

Ion	Ratio	Lower	Upper
149	100		
150	9.4	0.0	39.4
104	4.4	0.0	33.5

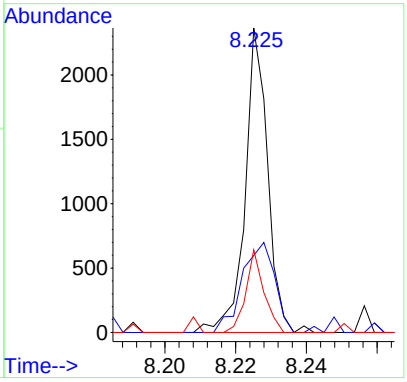


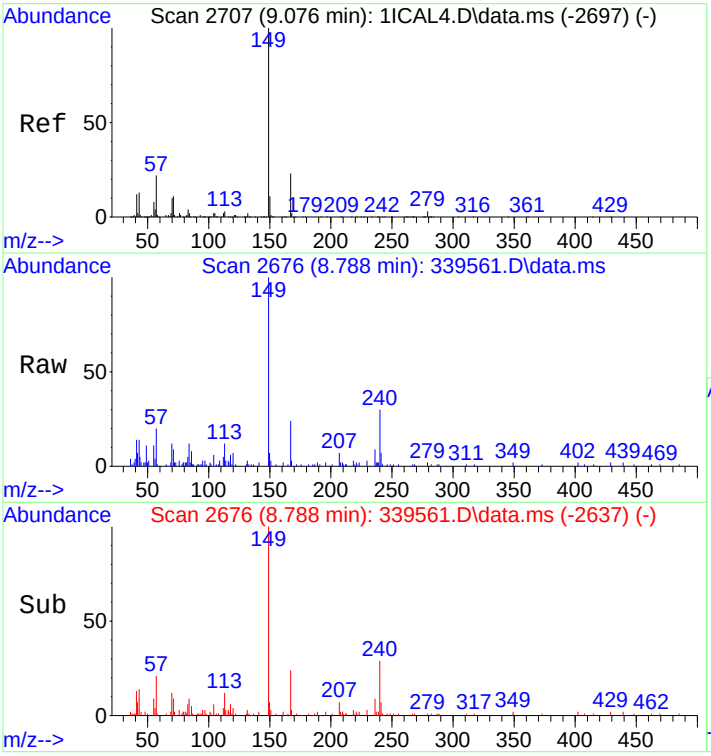


#77
Pyrene
Concen: 0.02 ug/mL
RT: 8.225 min Scan# 2478
Delta R.T. 0.097 min
Lab File: 339561.D
Acq: 20 Aug 13 4:22 pm

Tgt Ion:202 Resp: 1047

Ion	Ratio	Lower	Upper
202	100		
200	25.3	0.0	50.3
203	27.2	0.0	48.5

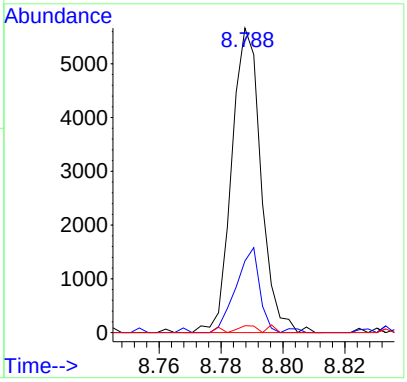




#84
bis2Ethlhxlph
Concen: 0.20 ug/mL
RT: 8.788 min Scan# 2676
Delta R.T. -0.006 min
Lab File: 339561.D
Acq: 20 Aug 13 4:22 pm

Tgt Ion:149 Resp: 3711

Ion	Ratio	Lower	Upper
149	100		
167	26.6	0.0	55.0
279	2.3	0.0	31.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\339561.D Vial: 7
Acq On : 21 Aug 2013 12:26 Operator: RPN
Sample : 96939,339561, Inst : SVMS2
Misc : 500uL+5uL IS SVMS5791 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:44:32 2013

RPN
08/21/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:44:28 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

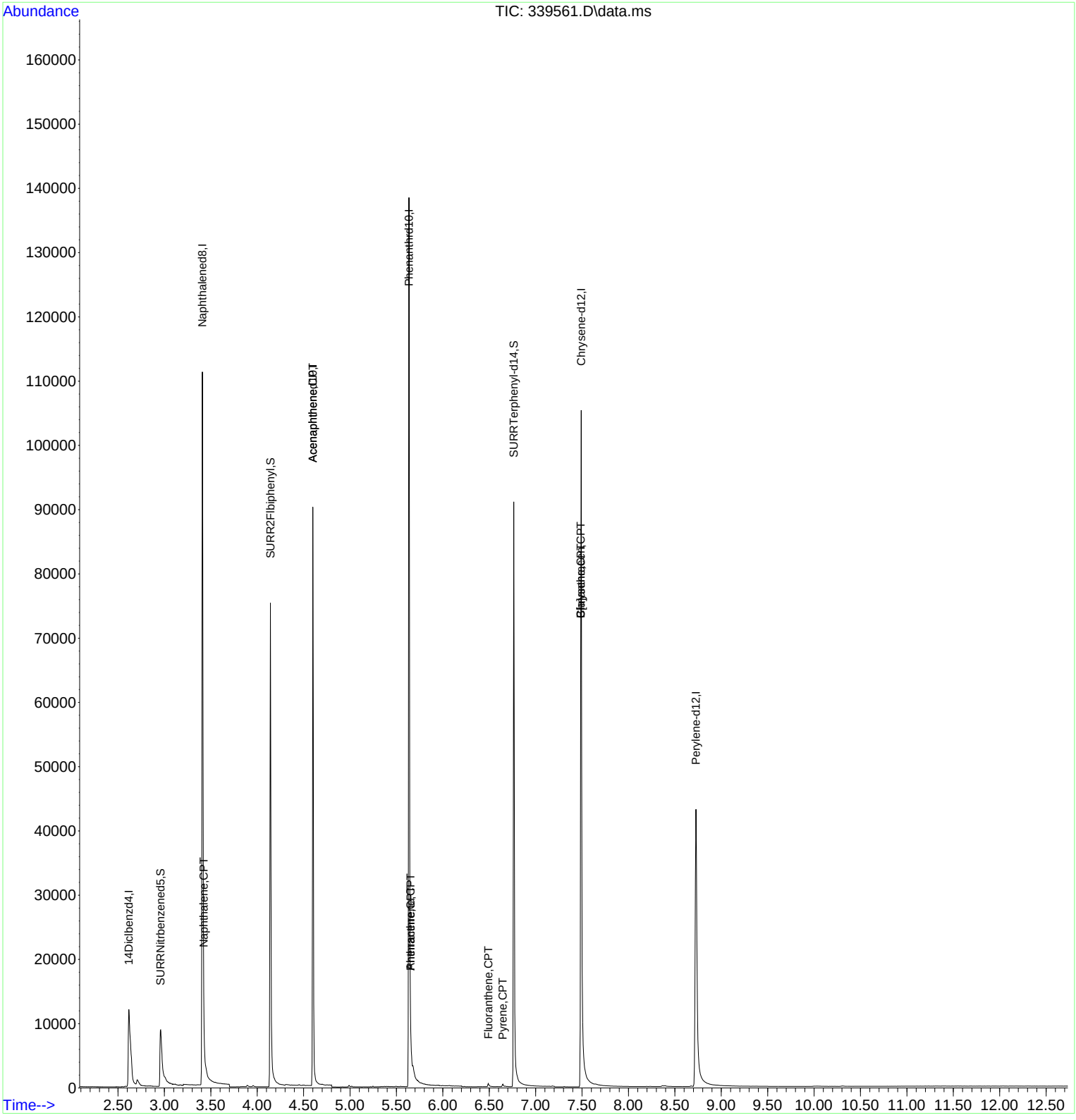
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.617	152	21855	1000.00	ng/mL	0.00
2) Naphthalened8	3.409	136	94854	1000.00	ng/mL	-0.02
7) Acenaphthened10	4.600	164	56246	1000.00	ng/mL	-0.02
12) Phenanthrd10	5.635	188	105595	1000.00	ng/mL	-0.02
16) Chrysene-d12	7.490	240	92847	1000.00	ng/mL	-0.02
21) Perylene-d12	8.727	264	63403	1000.00	ng/mL	-0.03
System Monitoring Compounds						
3) SURRNitrbenzened5	2.959	82	26105	98.61	%REC	-0.03
Spiked Amount 100.000			Recovery = 98.61%			
8) SURR2Flbiphenyl	4.143	172	60102	93.30	%REC	-0.02
Spiked Amount 100.000			Recovery = 93.30%			
18) SURRTerphenyl-d14	6.765	244	69153	111.57	ng/mL	-0.02
Spiked Amount 100.000			Recovery = 111.57%			
Target Compounds						Qvalue
4) Naphthalene	3.424	128	851	10.1817	ng/mL	100
10) Acenaphthene	4.600	154	314	5.7393	ng/mL#	1
13) Phenanthrene	5.652	178	1091	12.1316	ng/mL	100
14) Anthracene	5.652	178	1480	14.1419	ng/mL	97
15) Fluoranthene	6.490	202	497	4.1746	ng/mL	96
17) Pyrene	6.646	202	389	3.2804	ng/mL	100
19) B[a]anthracen	7.485	228	379	5.1814	ng/mL	75
20) Chrysene	7.485	228	309	2.7360	ng/mL	68

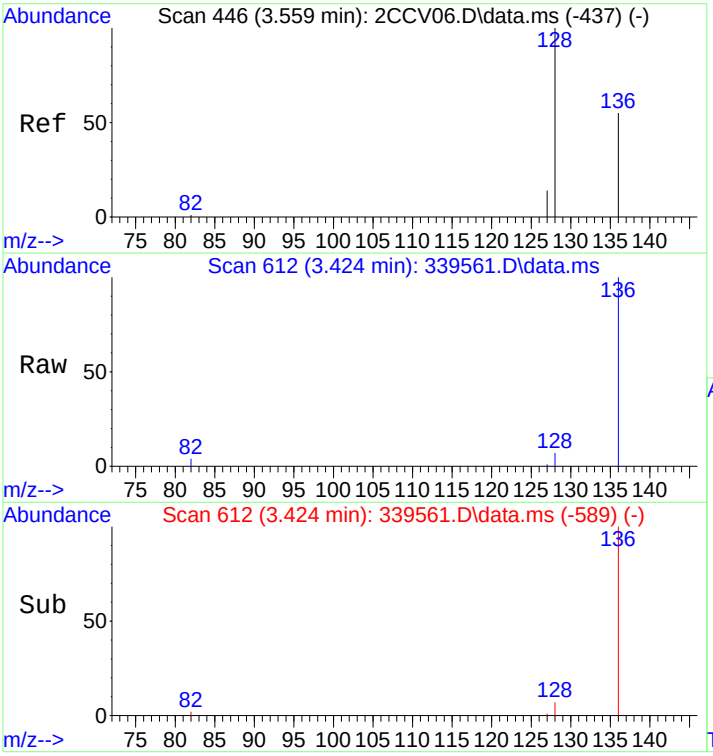
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\339561.D Vial: 7
Acq On : 21 Aug 2013 12:26 Operator: RPN
Sample : 96939,339561, Inst : SVMS2
Misc : 500uL+5uL IS SVMS5791 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:44:32 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:44:28 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

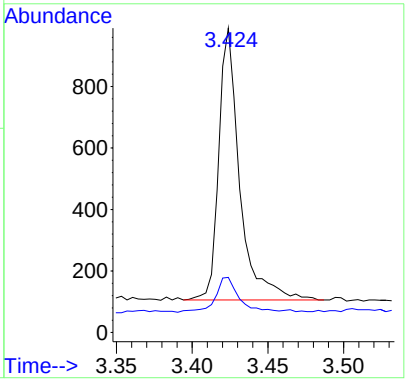


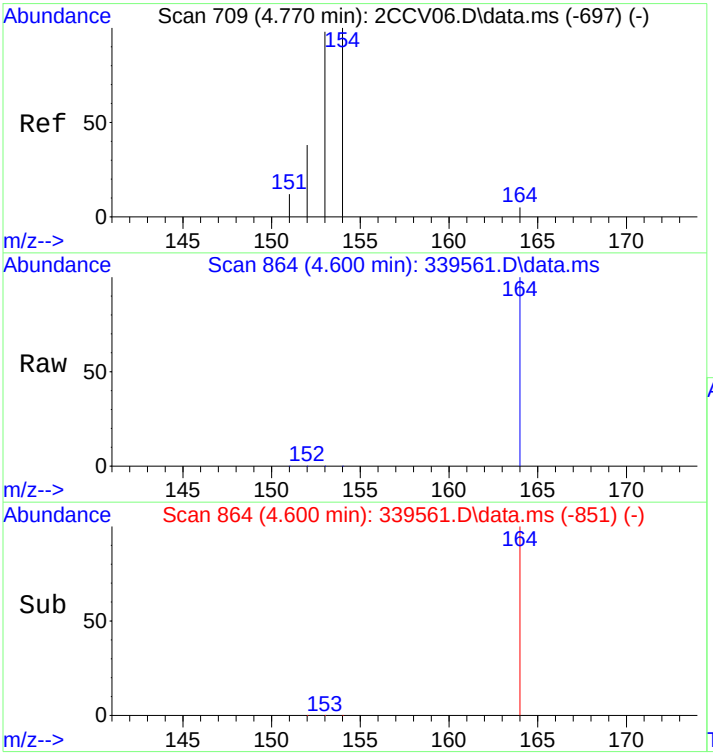


#4
Naphthalene
Concen: 10.18 ng/mL
RT: 3.424 min Scan# 612
Delta R.T. -0.015 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:128 Resp: 851

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.4

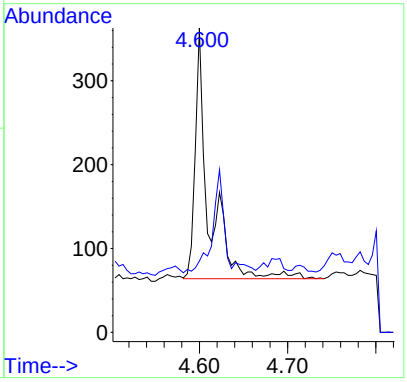


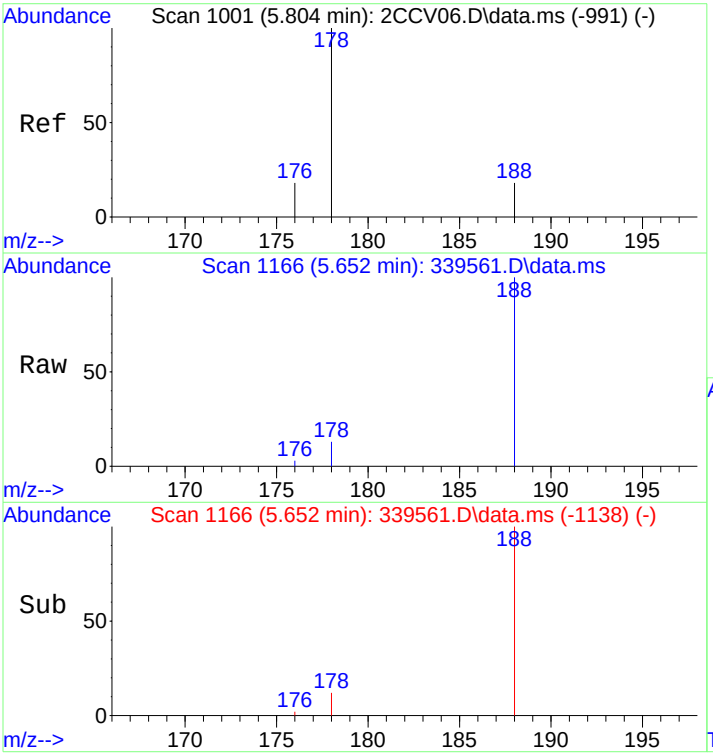


#10
Acenaphthene
Concen: 5.74 ng/mL
RT: 4.600 min Scan# 864
Delta R.T. -0.041 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:154 Resp: 314

Ion	Ratio	Lower	Upper
154	100		
153	4.7	84.6	144.6#

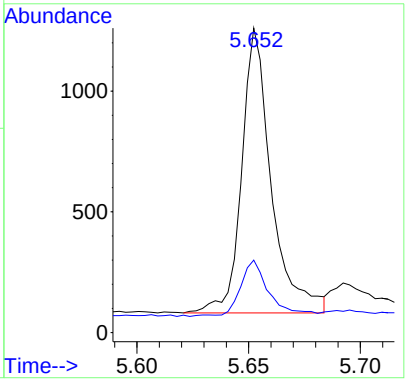


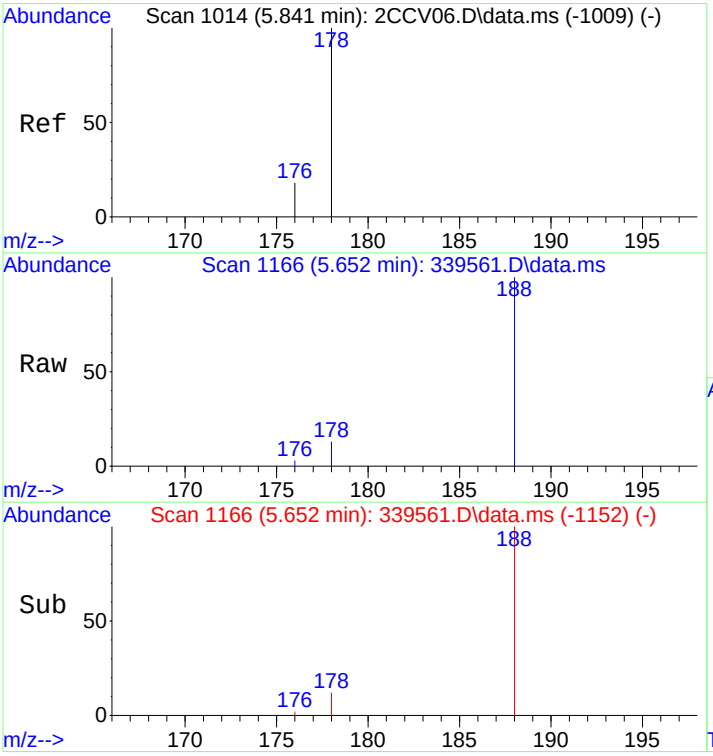


#13
Phenanthrene
Concen: 12.13 ng/mL
RT: 5.652 min Scan# 1166
Delta R.T. -0.020 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:178 Resp: 1091

Ion	Ratio	Lower	Upper
178	100		
176	19.3	0.0	49.2

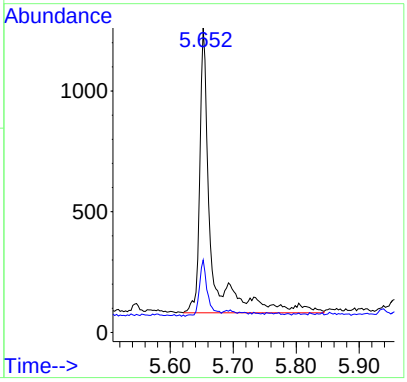


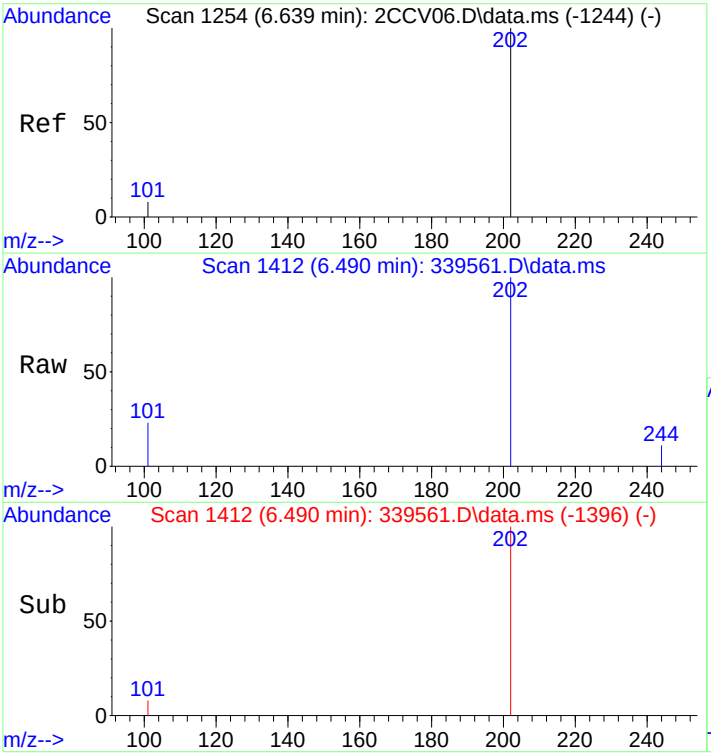


#14
Anthracene
Concen: 14.14 ng/mL
RT: 5.652 min Scan# 1166
Delta R.T. -0.060 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:178 Resp: 1480

Ion	Ratio	Lower	Upper
178	100		
176	19.3	0.0	47.9

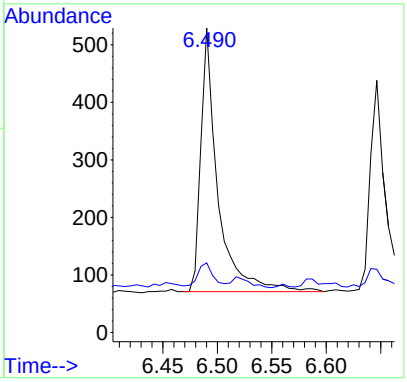


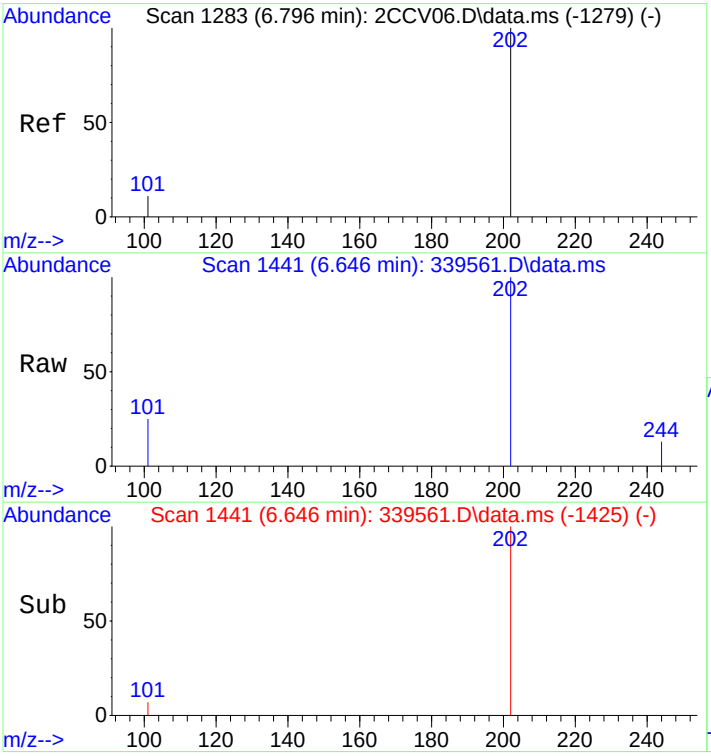


#15
Fluoranthene
Concen: 4.17 ng/mL
RT: 6.490 min Scan# 1412
Delta R.T. -0.016 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:202 Resp: 497

Ion	Ratio	Lower	Upper
202	100		
101	8.7	0.0	37.5

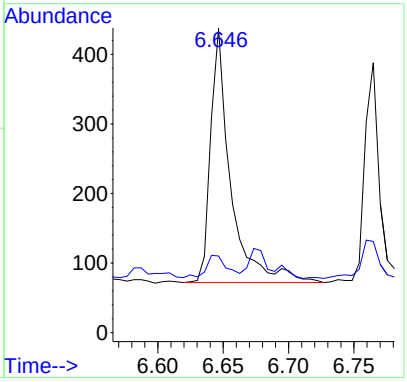


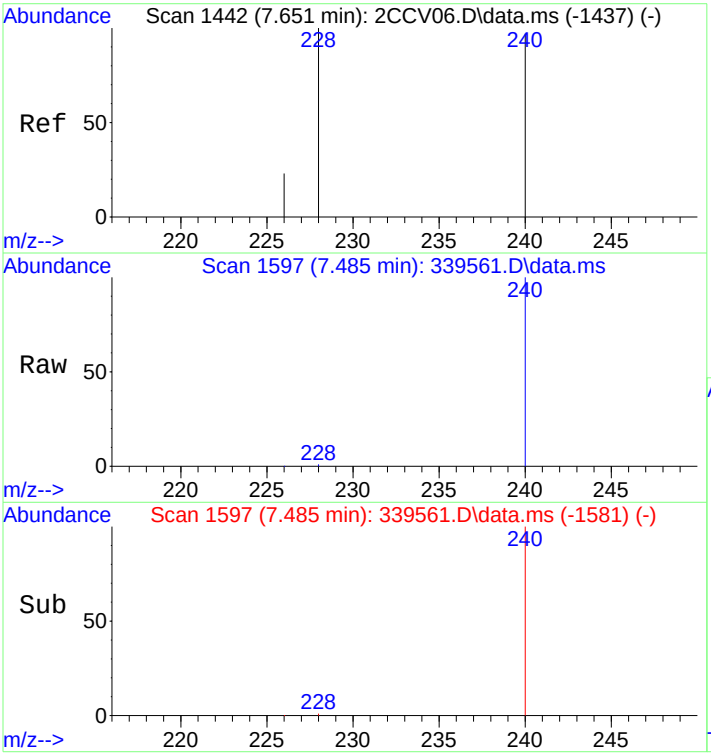


#17
Pyrene
Concen: 3.28 ng/mL
RT: 6.646 min Scan# 1441
Delta R.T. -0.016 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:202 Resp: 389

Ion	Ratio	Lower	Upper
202	100		
101	8.7	0.0	38.8

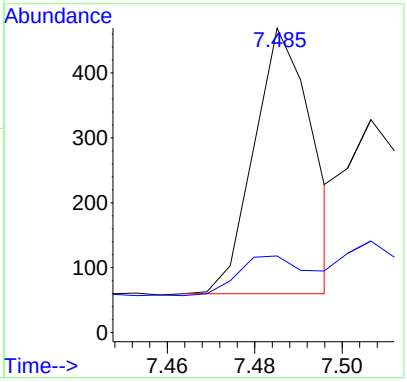


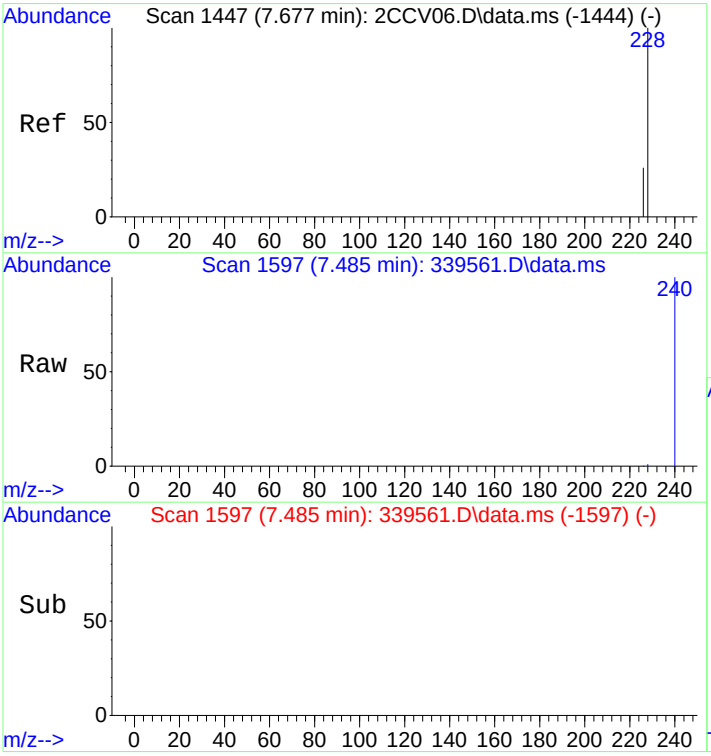


#19
B[a]anthracen
Concen: 5.18 ng/mL
RT: 7.485 min Scan# 1597
Delta R.T. -0.016 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:228 Resp: 379

Ion	Ratio	Lower	Upper
228	100		
226	14.9	0.0	58.4

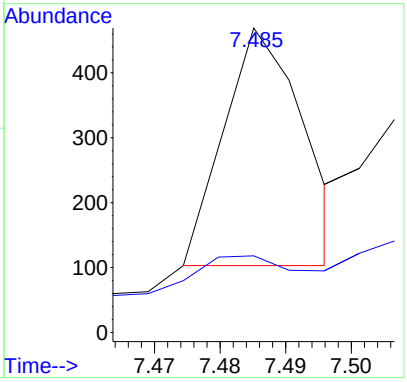




#20
Chrysene
Concen: 2.74 ng/mL
RT: 7.485 min Scan# 1597
Delta R.T. -0.043 min
Lab File: 339561.D
Acq: 21 Aug 13 12:26 pm

Tgt Ion:228 Resp: 309

Ion	Ratio	Lower	Upper
228	100		
226	10.4	0.0	57.2



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\339578.D Vial: 9
Acq On : 22 Aug 2013 15:06 Operator: RPN
Sample : 97009,339578, Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:53:21 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

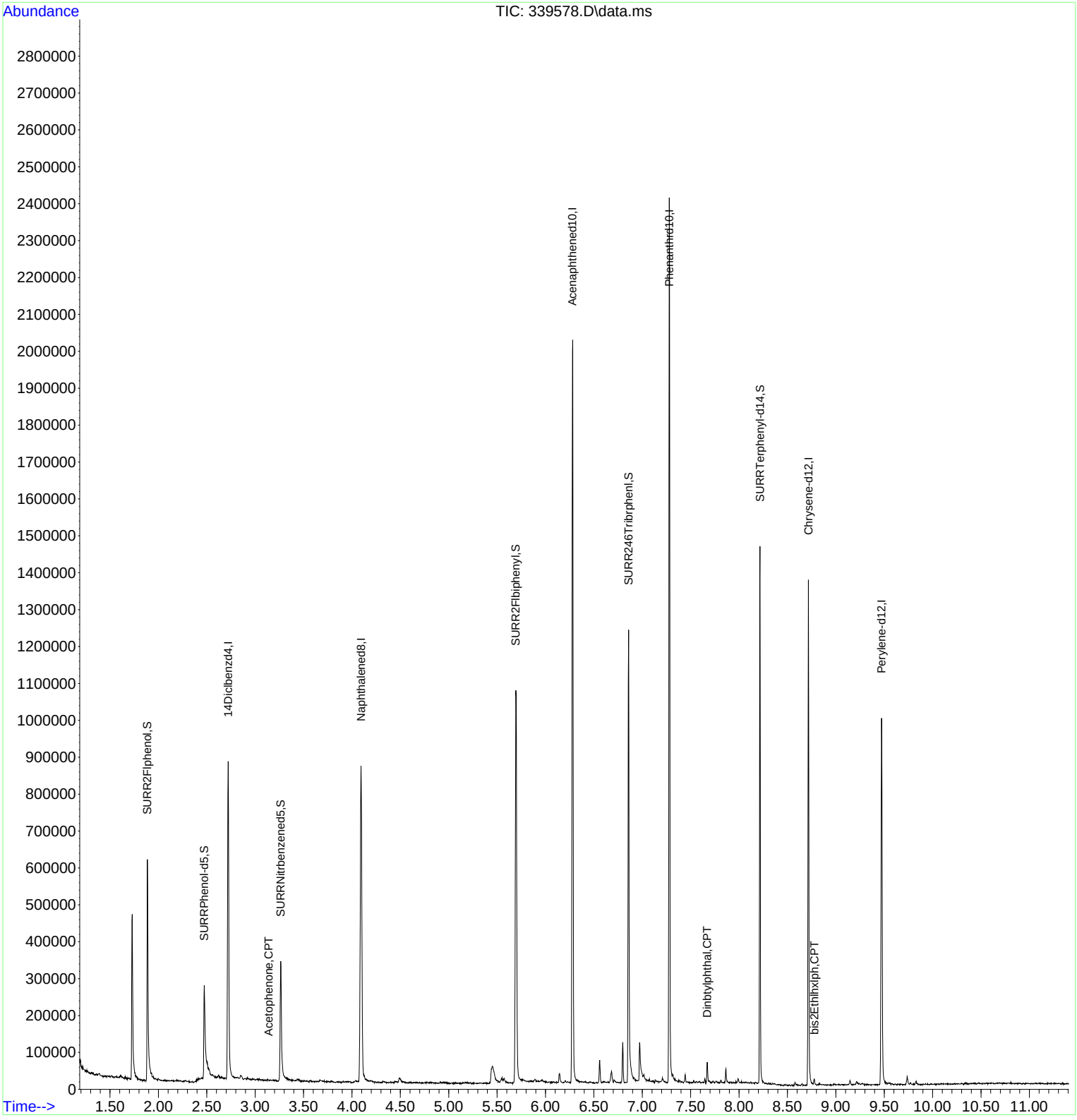
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	147180	20.00	ug/mL	0.00
21) Naphthalened8	4.093	136	546273	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	431520	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	677543	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	321441	20.00	ug/mL	0.00
86) Perylene-d12	9.472	264	293211	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.886	112	180402	44.97	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 44.97%			
7) SURRPhenol-d5	2.474	99	129847	30.34	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 30.34%			
22) SURRNitrbenzened5	3.264	82	115555	72.98	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 72.98%			
44) SUR2Flbiphenyl	5.693	172	419371	73.92	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 73.92%			
62) SURR246Tribrphenl	6.858	330	122862	86.04	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 86.04%			
78) SURRTerphenyl-d14	8.216	244	293294	91.50	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 91.50%			
Target Compounds						Qvalue
17) Acetophenone	3.139	105	864	0.0755	ug/mL	62
60) Diethylphthal	6.685	149	4517	Below Cal		97
65) Ntrsdiphlam&Diphlam	6.813	169	132	Below Cal	#	57
73) Dinbtylphthal	7.671	149	20347	0.4395	ug/mL	100
84) bis2Ethlhxlph	8.779	149	3484	0.2307	ug/mL	89

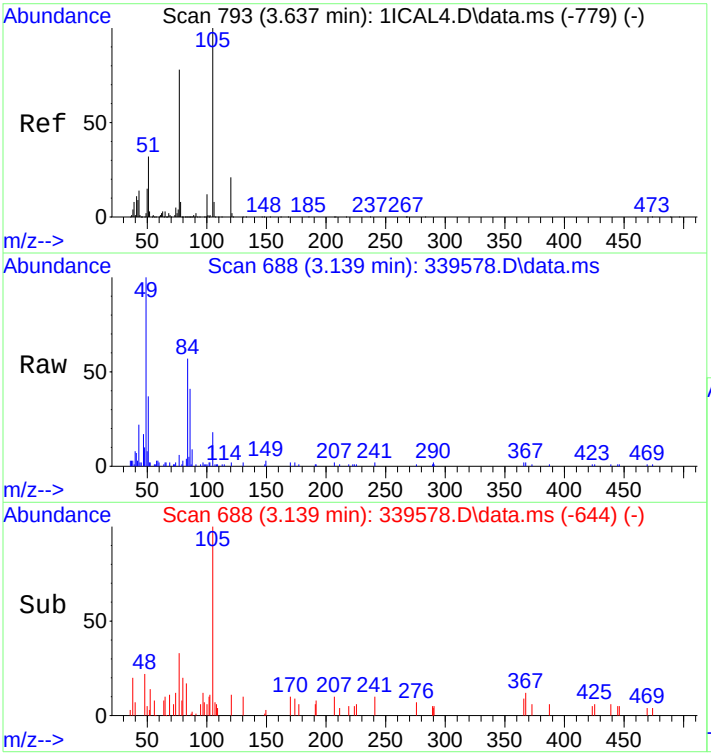
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\339578.D Vial: 9
Acq On : 22 Aug 2013 15:06 Operator: RPN
Sample : 97009,339578, Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:53:21 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

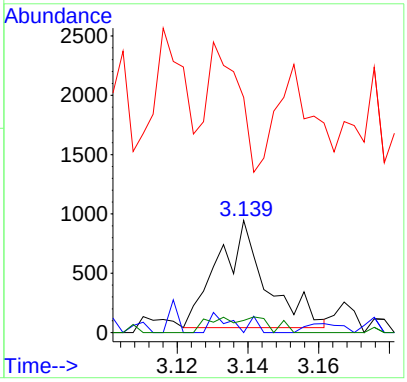


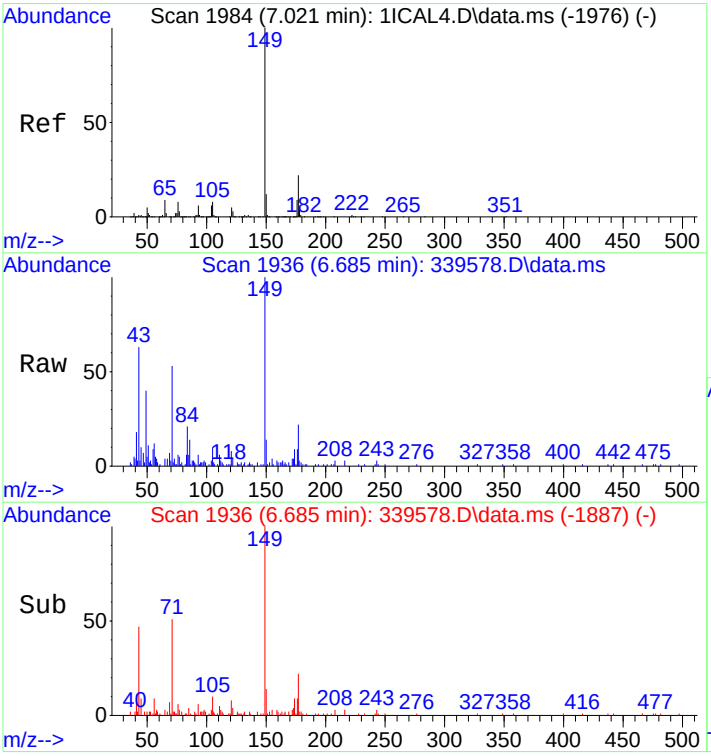


#17
Acetophenone
Concen: 0.08 ug/mL
RT: 3.139 min Scan# 688
Delta R.T. 0.011 min
Lab File: 339578.D
Acq: 22 Aug 13 3:06 pm

Tgt Ion:105 Resp: 864

Ion	Ratio	Lower	Upper
105	100		
71	0.0	0.0	30.0
51	0.0	0.0	57.8
120	11.9	0.2	40.2

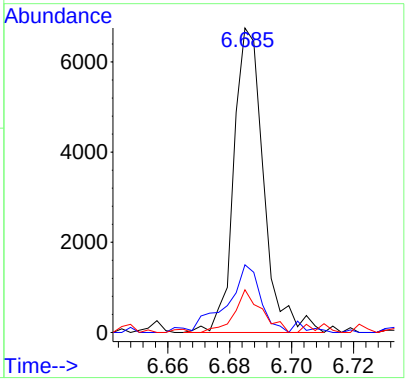


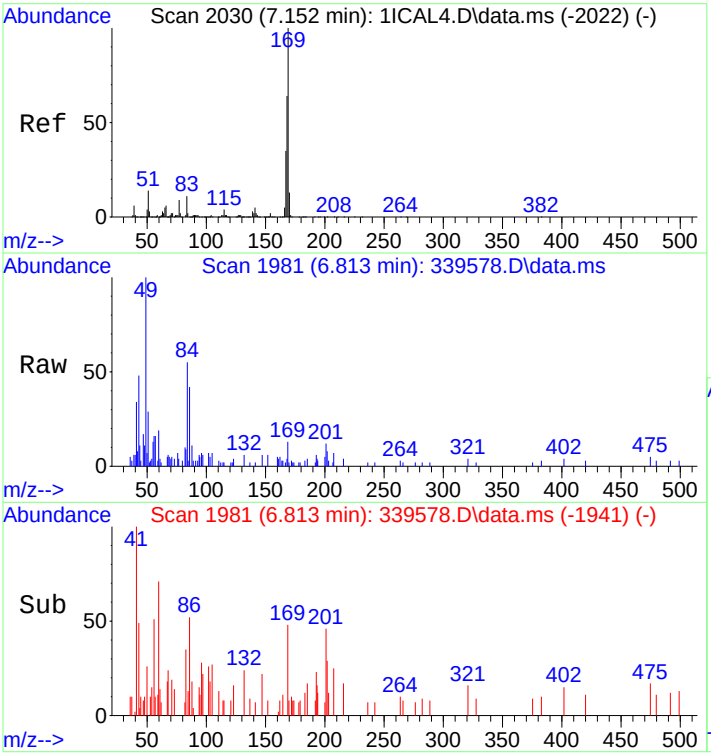


#60
Diethylphthal
Concen: Below ug/mL
RT: 6.685 min Scan# 1936
Delta R.T. -0.006 min
Lab File: 339578.D
Acq: 22 Aug 13 3:06 pm

Tgt Ion:149 Resp: 4517

Ion	Ratio	Lower	Upper
149	100		
177	21.4	0.0	49.9
150	13.0	0.0	42.4

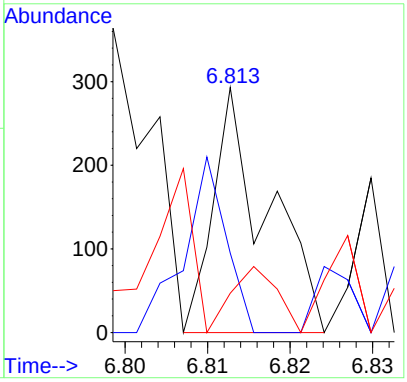


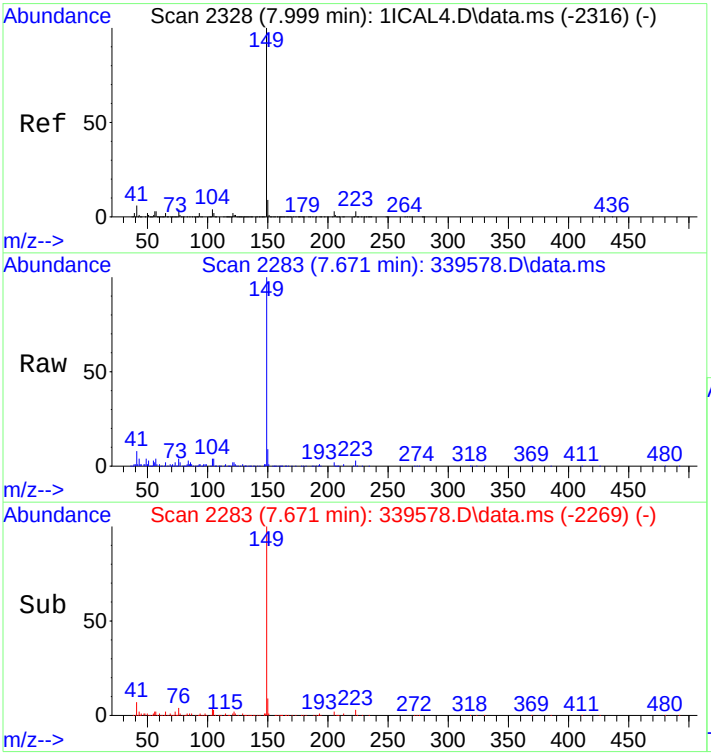


#65
Ntrsdiphlam&Diphlam
Concen: Below ug/mL
RT: 6.813 min Scan# 1981
Delta R.T. -0.000 min
Lab File: 339578.D
Acq: 22 Aug 13 3:06 pm

Tgt Ion:169 Resp: 132

Ion	Ratio	Lower	Upper
169	100		
168	91.5	34.5	94.5
167	0.0	4.6	64.6#

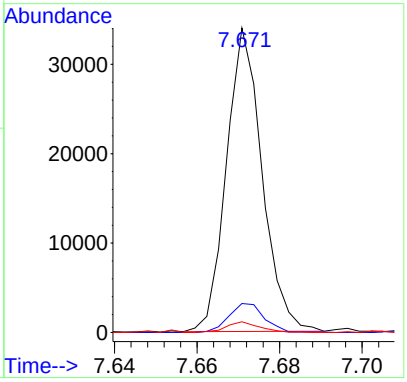


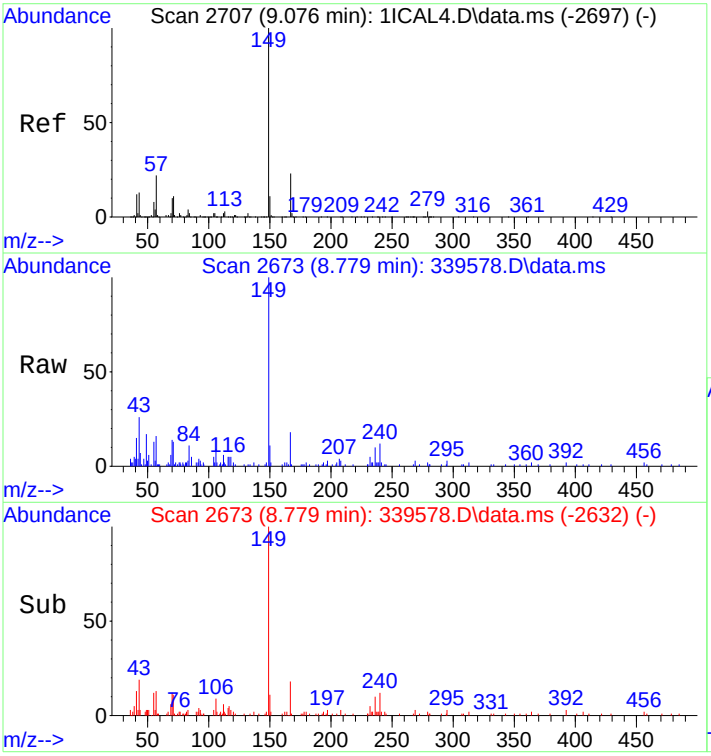


#73
Dinbtylphthal
Concen: 0.44 ug/mL
RT: 7.671 min Scan# 2283
Delta R.T. -0.000 min
Lab File: 339578.D
Acq: 22 Aug 13 3:06 pm

Tgt Ion:149 Resp: 20347

Ion	Ratio	Lower	Upper
149	100		
150	9.5	0.0	39.4
104	3.6	0.0	33.5

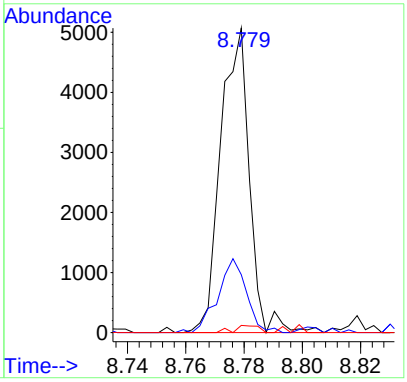




#84
bis2Ethlhxlph
Concen: 0.23 ug/mL
RT: 8.779 min Scan# 2673
Delta R.T. 0.003 min
Lab File: 339578.D
Acq: 22 Aug 13 3:06 pm

Tgt Ion:149 Resp: 3484

Ion	Ratio	Lower	Upper
149	100		
167	19.0	0.0	55.0
279	2.3	0.0	31.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\339580.D Vial: 10
Acq On : 22 Aug 2013 15:25 Operator: RPN
Sample : 97009,339580, Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:54:48 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

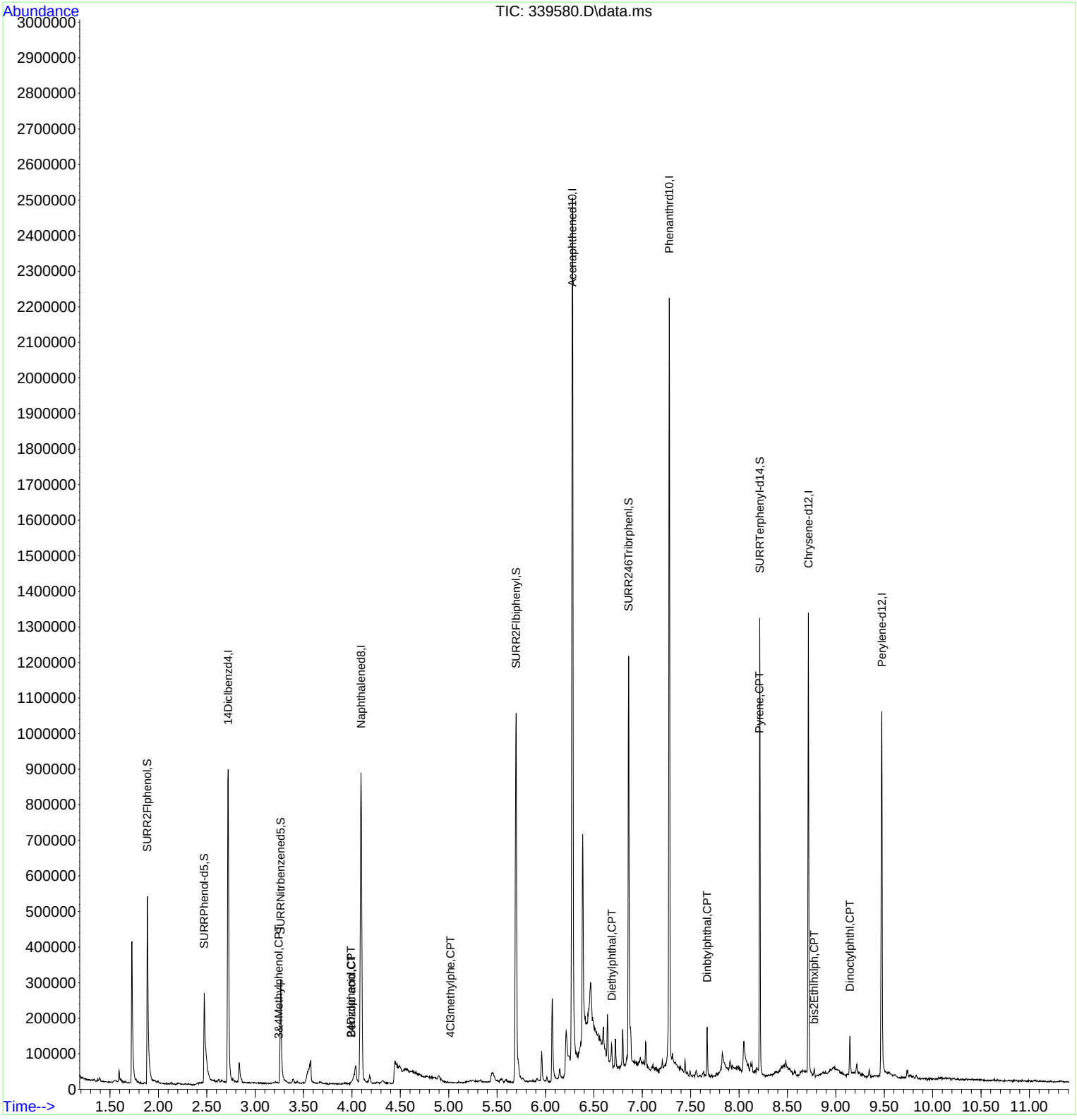
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	153255	20.00	ug/mL	0.00
21) Naphthalened8	4.094	136	548132	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	437543	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	640260	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	296323	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	292366	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.886	112	176798	42.32	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 42.32%			
7) SURRPhenol-d5	2.474	99	122562	27.50	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 27.50%			
22) SURRNitrbenzened5	3.264	82	107486	67.66	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 67.66%			
44) SURR2Flbiphenyl	5.696	172	394457	68.57	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 68.57%			
62) SURR246Tribrphenl	6.858	330	125822	86.90	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 86.90%			
78) SURRTerphenyl-d14	8.214	244	254339	86.07	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 86.07%			
Target Compounds						Qvalue
20) 3&4Methylphenol	3.244	107	629	0.0703	ug/mL#	51
28) 24Diclphenol	3.988	162	1559	0.1803	ug/mL	74
30) Benzoic acid	3.994	122	1759	0.4111	ug/mL	79
36) 4Cl3methylphe	5.017	107	352	0.0366	ug/mL#	12
60) Diethylphthal	6.685	149	14827	0.3058	ug/mL	96
65) Ntrsdiphlam&Diphlam	6.810	169	269	Below Cal	#	56
66) Azobenz&12Diphlhyd	6.838	182	708	Below Cal	#	1
73) Dinbtylphthal	7.671	149	38909	0.8894	ug/mL	98
77) Pyrene	8.211	202	749	0.0201	ug/mL	84
84) bis2Ethlhxlph	8.776	149	4694	0.3372	ug/mL	92
85) Dinoctylphthl	9.146	149	9786	0.3782	ug/mL#	40

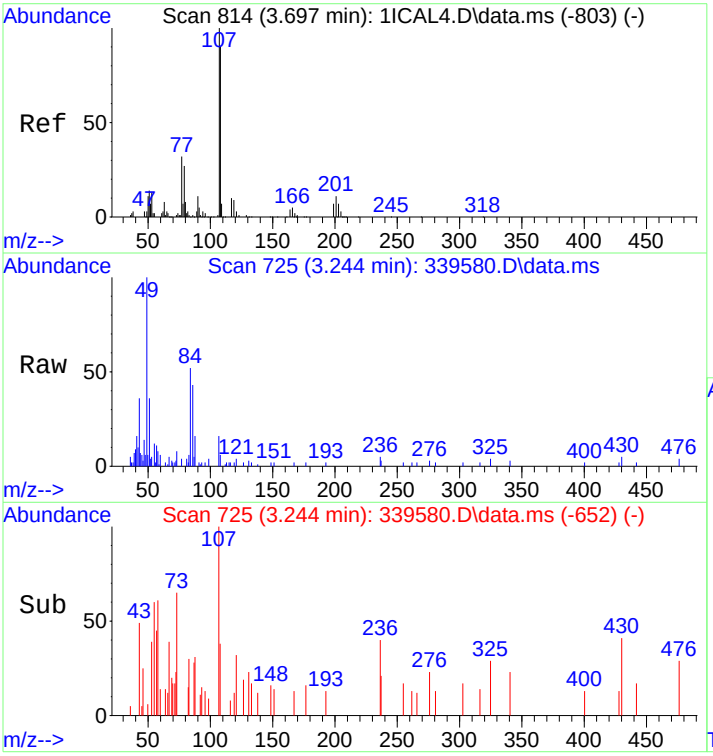
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\339580.D Vial: 10
Acq On : 22 Aug 2013 15:25 Operator: RPN
Sample : 97009,339580, Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:54:48 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

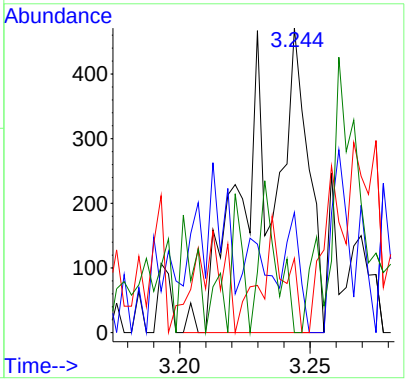


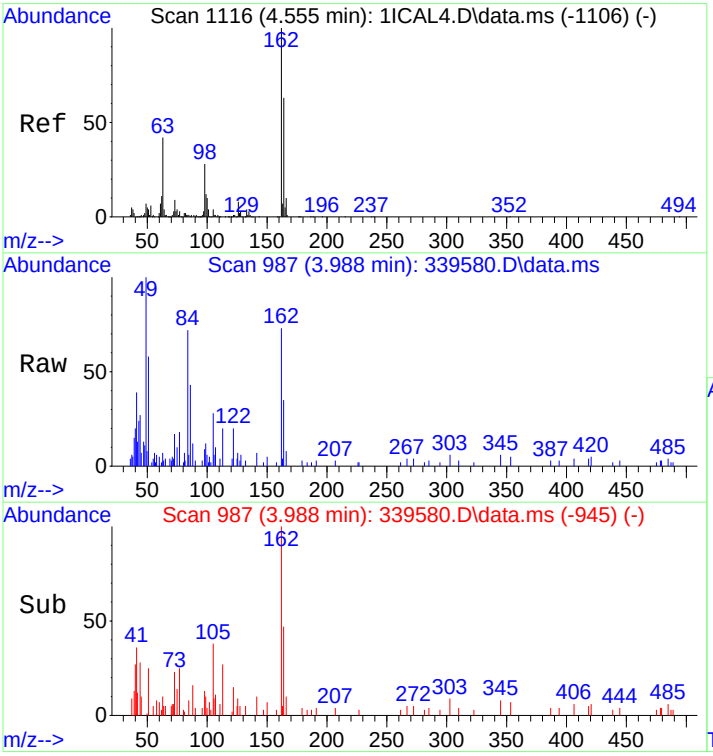


#20
3&4Methylphenol
Concen: 0.07 ug/mL
RT: 3.244 min Scan# 725
Delta R.T. 0.057 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:107 Resp: 629

Ion	Ratio	Lower	Upper
107	100		
108	39.5	64.0	124.0#
77	15.1	7.0	47.0
79	0.0	2.8	42.8#

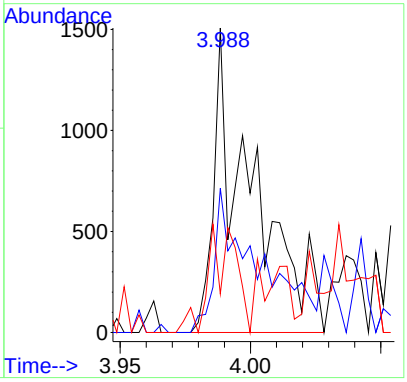


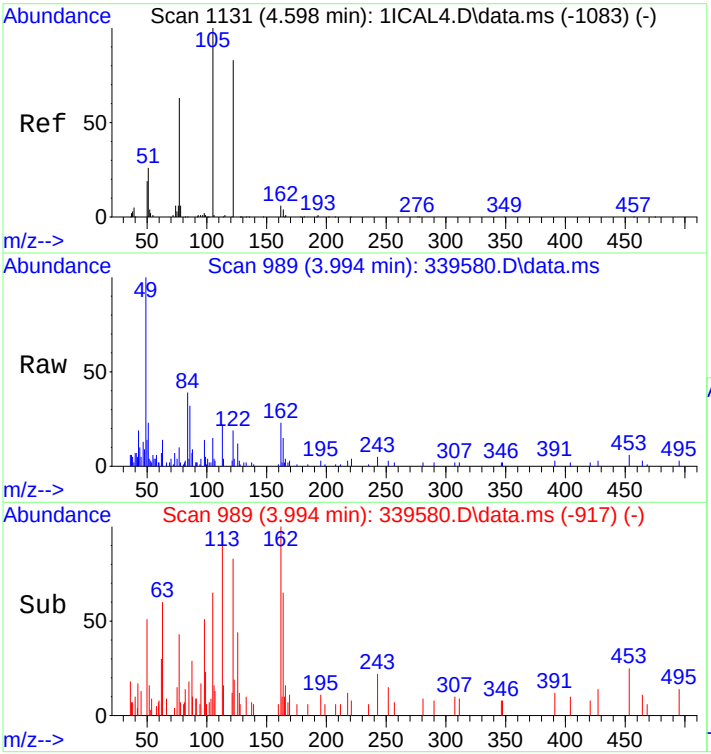


#28
24Diclphenol
Concen: 0.18 ug/mL
RT: 3.988 min Scan# 987
Delta R.T. 0.020 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:162 Resp: 1559

Ion	Ratio	Lower	Upper
162	100		
164	47.4	32.8	92.8
98	9.0	0.0	59.5

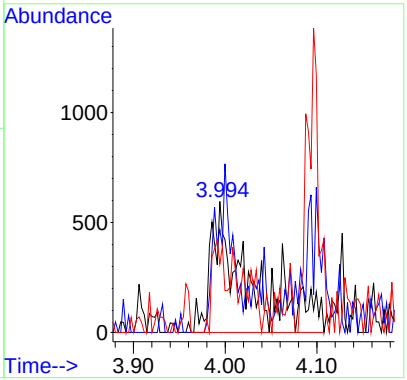


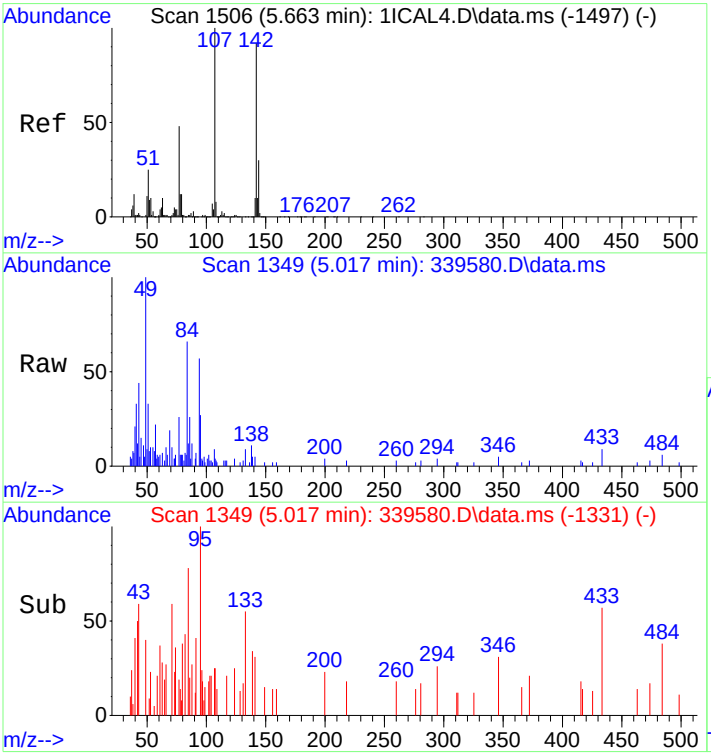


#30
Benzoic acid
Concen: 0.41 ug/mL
RT: 3.994 min Scan# 989
Delta R.T. -0.046 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:122 Resp: 1759

Ion	Ratio	Lower	Upper
122	100		
105	78.5	69.2	129.2
77	40.8	26.6	86.6

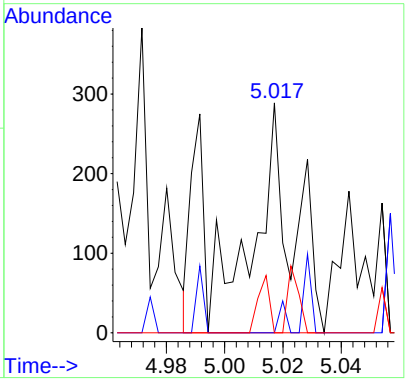


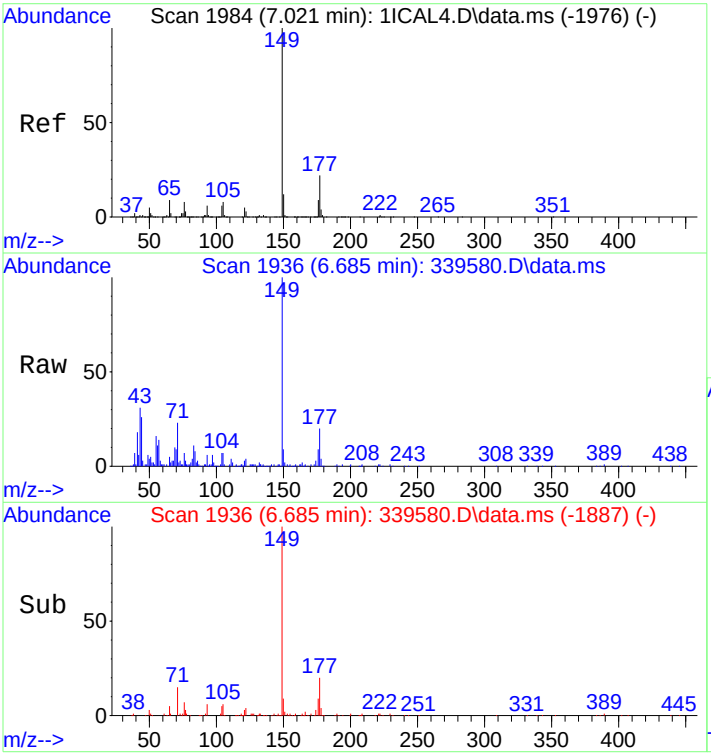


#36
4Cl3methylphe
Concen: 0.04 ug/mL
RT: 5.017 min Scan# 1349
Delta R.T. -0.048 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:107 Resp: 352

Ion	Ratio	Lower	Upper
107	100		
142	0.0	66.4	126.4#
144	0.0	0.0	59.9

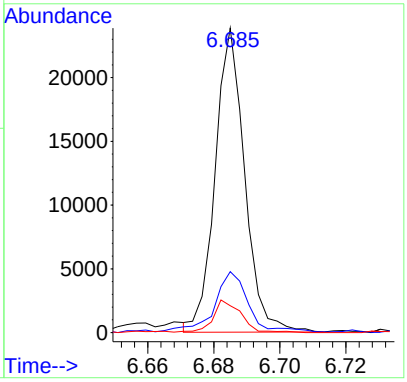


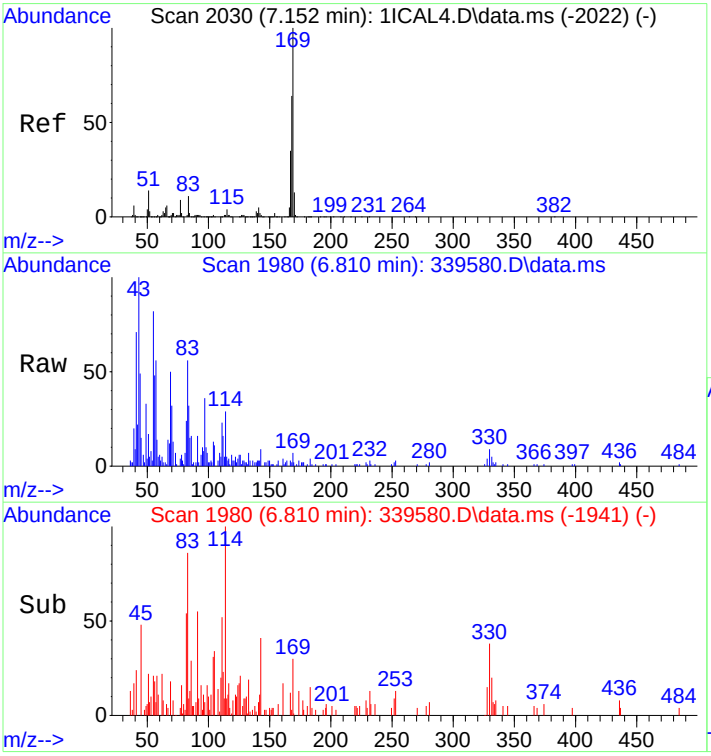


#60
Diethylphthal
Concen: 0.31 ug/mL
RT: 6.685 min Scan# 1936
Delta R.T. -0.006 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:149 Resp: 14827

Ion	Ratio	Lower	Upper
149	100		
177	19.9	0.0	49.9
150	8.9	0.0	42.4

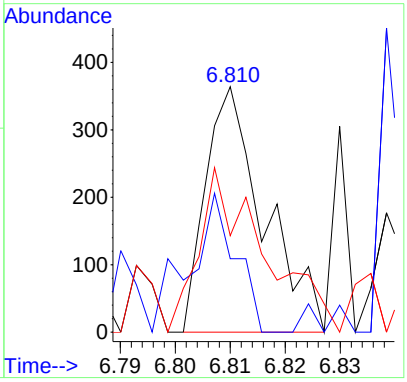


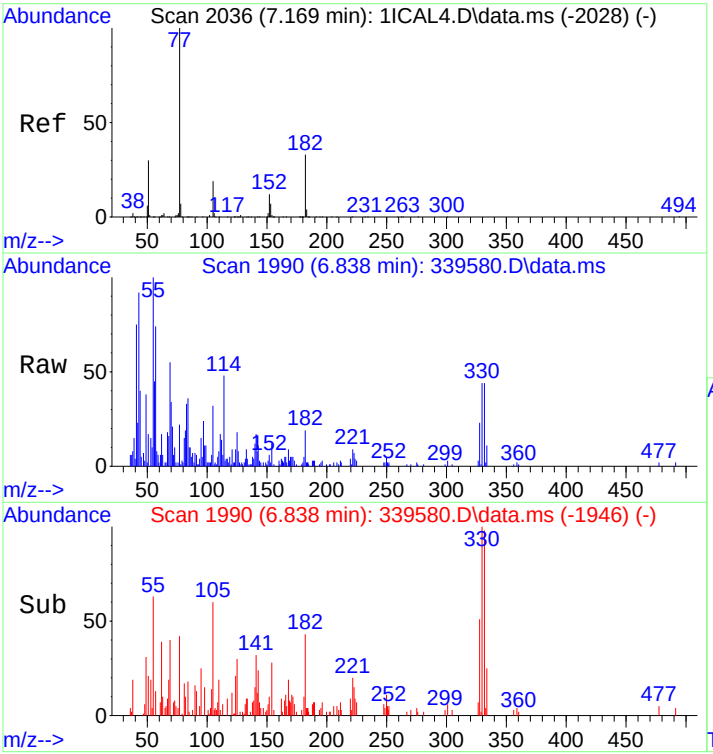


#65
Ntrsdiphlam&Diphlam
Concen: Below ug/mL
RT: 6.810 min Scan# 1980
Delta R.T. -0.003 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:169 Resp: 269

Ion	Ratio	Lower	Upper
169	100		
168	22.2	34.5	94.5#
167	20.5	4.6	64.6

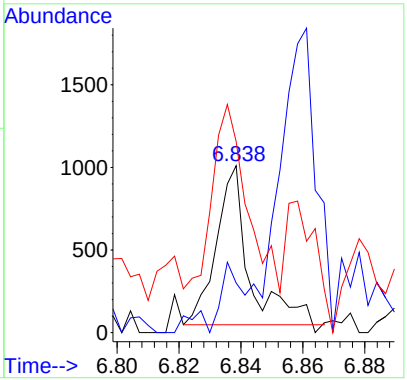


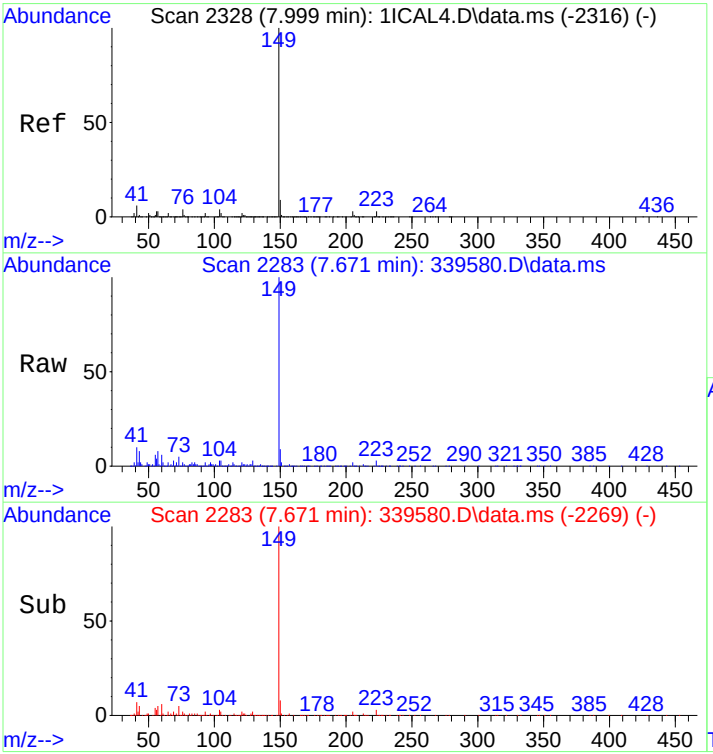


#66
Azobenz&12Diphlhyd
Concen: Below ug/mL
RT: 6.838 min Scan# 1990
Delta R.T. 0.011 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:182 Resp: 708

Ion	Ratio	Lower	Upper
182	100		
152	20.6	9.8	69.8
77	92.6	337.4	397.4#

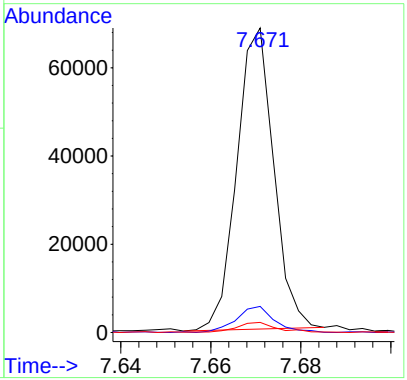


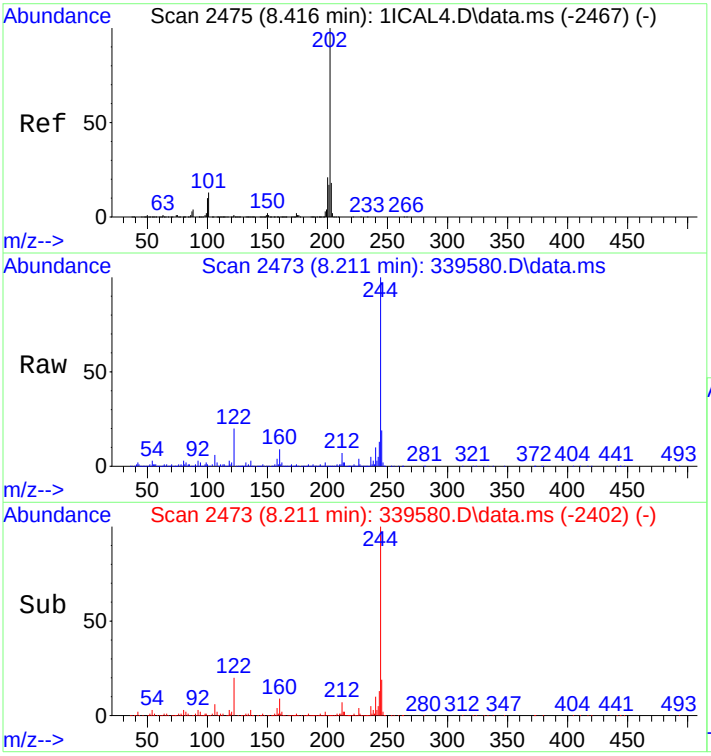


#73
Dinbtylphthal
Concen: 0.89 ug/mL
RT: 7.671 min Scan# 2283
Delta R.T. -0.000 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:149 Resp: 38909

Ion	Ratio	Lower	Upper
149	100		
150	8.5	0.0	39.4
104	3.2	0.0	33.5

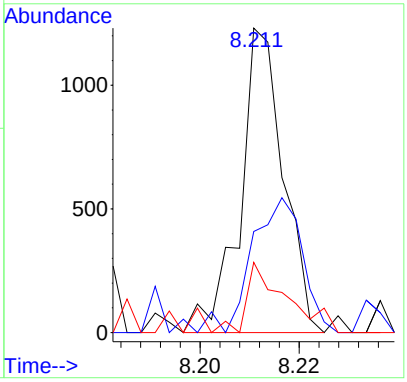


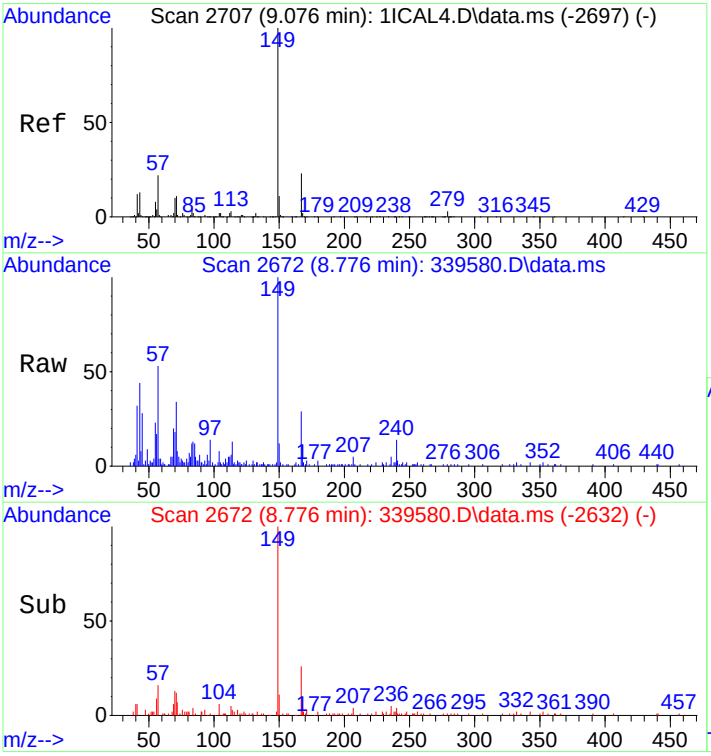


#77
Pyrene
Concen: 0.02 ug/mL
RT: 8.211 min Scan# 2473
Delta R.T. 0.102 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:202 Resp: 749

Ion	Ratio	Lower	Upper
202	100		
200	29.7	0.0	50.3
203	23.1	0.0	48.5

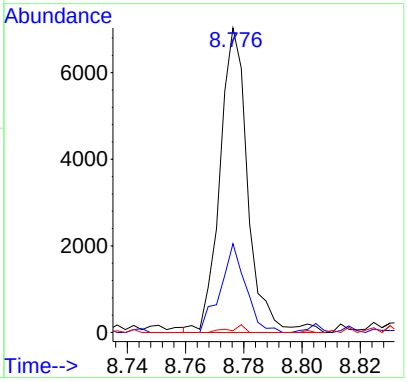


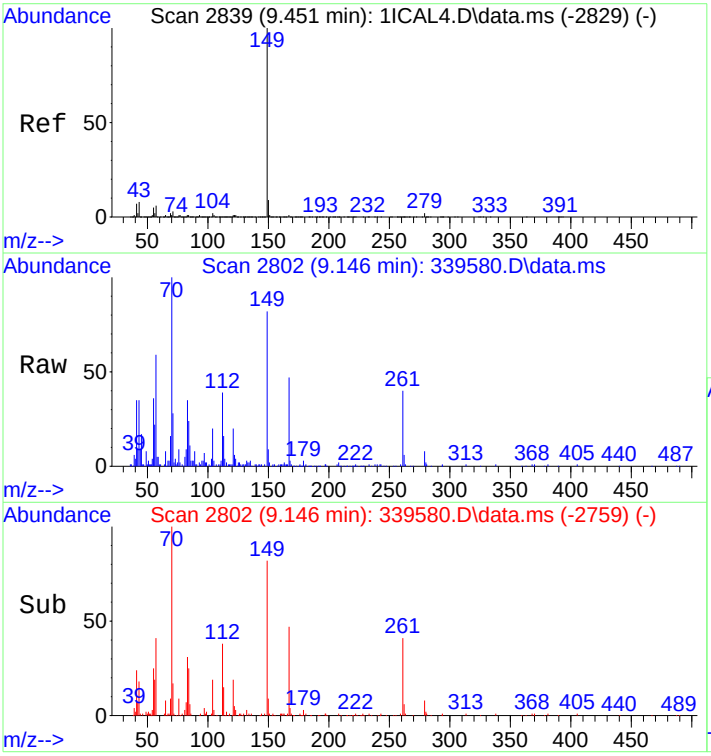


#84
bis2Ethlhxlph
Concen: 0.34 ug/mL
RT: 8.776 min Scan# 2672
Delta R.T. -0.000 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:149 Resp: 4694

Ion	Ratio	Lower	Upper
149	100		
167	29.1	0.0	55.0
279	0.6	0.0	31.6

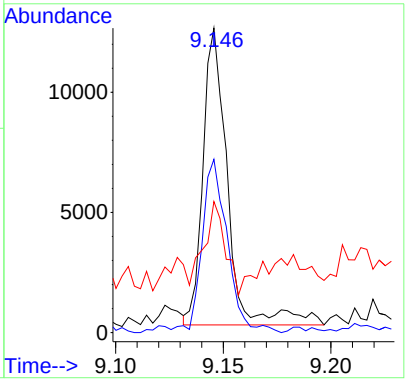




#85
Dinoctylphthl
Concen: 0.38 ug/mL
RT: 9.146 min Scan# 2802
Delta R.T. 0.023 min
Lab File: 339580.D
Acq: 22 Aug 13 3:25 pm

Tgt Ion:149 Resp: 9786

Ion	Ratio	Lower	Upper
149	100		
167	57.7	0.0	31.2#
43	26.6	0.0	28.8



SEMI - VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Injection Log Summary Report

Method : X:\METHODS\1S080513.M (RTE Integrator)
Title : Method for 8270 analysis
Start (Tune) File ID : X:\DATA\1S080513\1DFTPP99.D
Injection Date : 5 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 11:30 Total files within period : 21
Sample Directory : X:\DATA\1S080513\

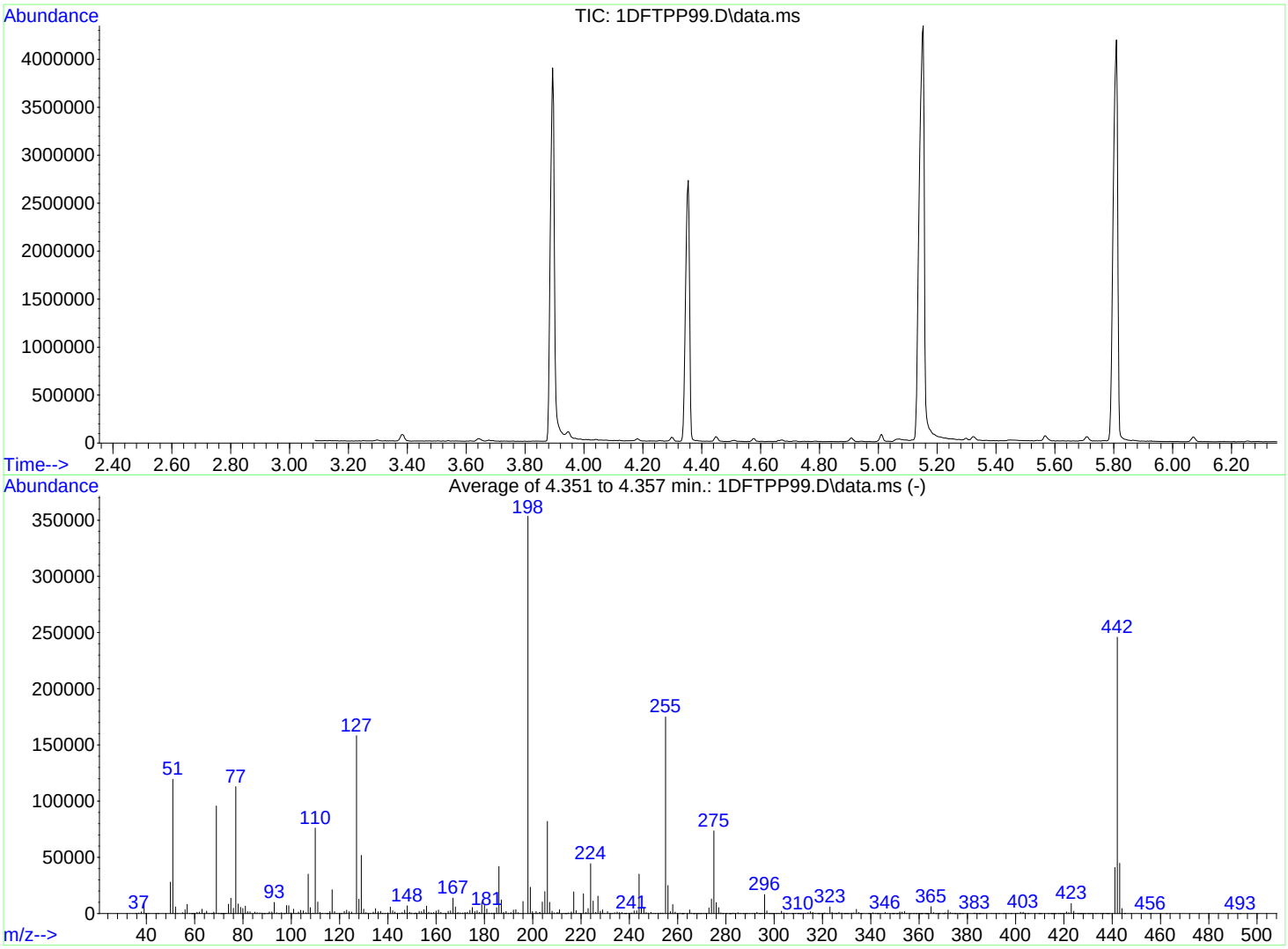
Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
1IB03	1.00	1.00	1.00	InstrumentBlank 500uL+5ul IS S2810C	5 Aug 2013	14:45
1ICAL7	1.00	1.00	1.00	ICAL 50ug/ml SVMS5743 500uL+5ul IS S2805D	5 Aug 2013	15:03
1ICAL6	1.00	1.00	1.00	ICAL 40ug/ml SVMS5742 500uL+5ul IS S2805D	5 Aug 2013	15:21
1ICAL5	1.00	1.00	1.00	ICAL 30ug/ml SVMS5741 500uL+5ul IS S2805D	5 Aug 2013	15:39
1ICAL4	1.00	1.00	1.00	ICAL 20ug/ml SVMS5740 500uL+5ul IS S2805D	5 Aug 2013	15:57
1ICAL3	1.00	1.00	1.00	ICAL 10ug/ml SVMS5739 500uL+5ul IS S2805D	5 Aug 2013	16:15
1ICAL2	1.00	1.00	1.00	ICAL 5ug/ml SVMS5738 500uL+5ul IS S2805D	5 Aug 2013	16:33
1ICAL1	1.00	1.00	1.00	ICAL 1ug/ml SVMS5737 500uL+5ul IS S2805D	5 Aug 2013	16:52
1ICV1	1.00	1.00	1.00	ICV 20ug/ml SVMS5790 500uL+5ul IS S2805D	5 Aug 2013	17:10
1ICV2R	1.00	1.00	1.00	ICV 40ug/ml SVMS5790A 500uL+5ul IS S2805D	5 Aug 2013	17:47

Data File : C:\INSTARCH\Data\1S080513\1DFTPP99.D Vial: 1
Acq On : 5 Aug 2013 11:30 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/05/13

Method : C:\INSTARCH\Methods\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Tue Jul 30 10:38:29 2013



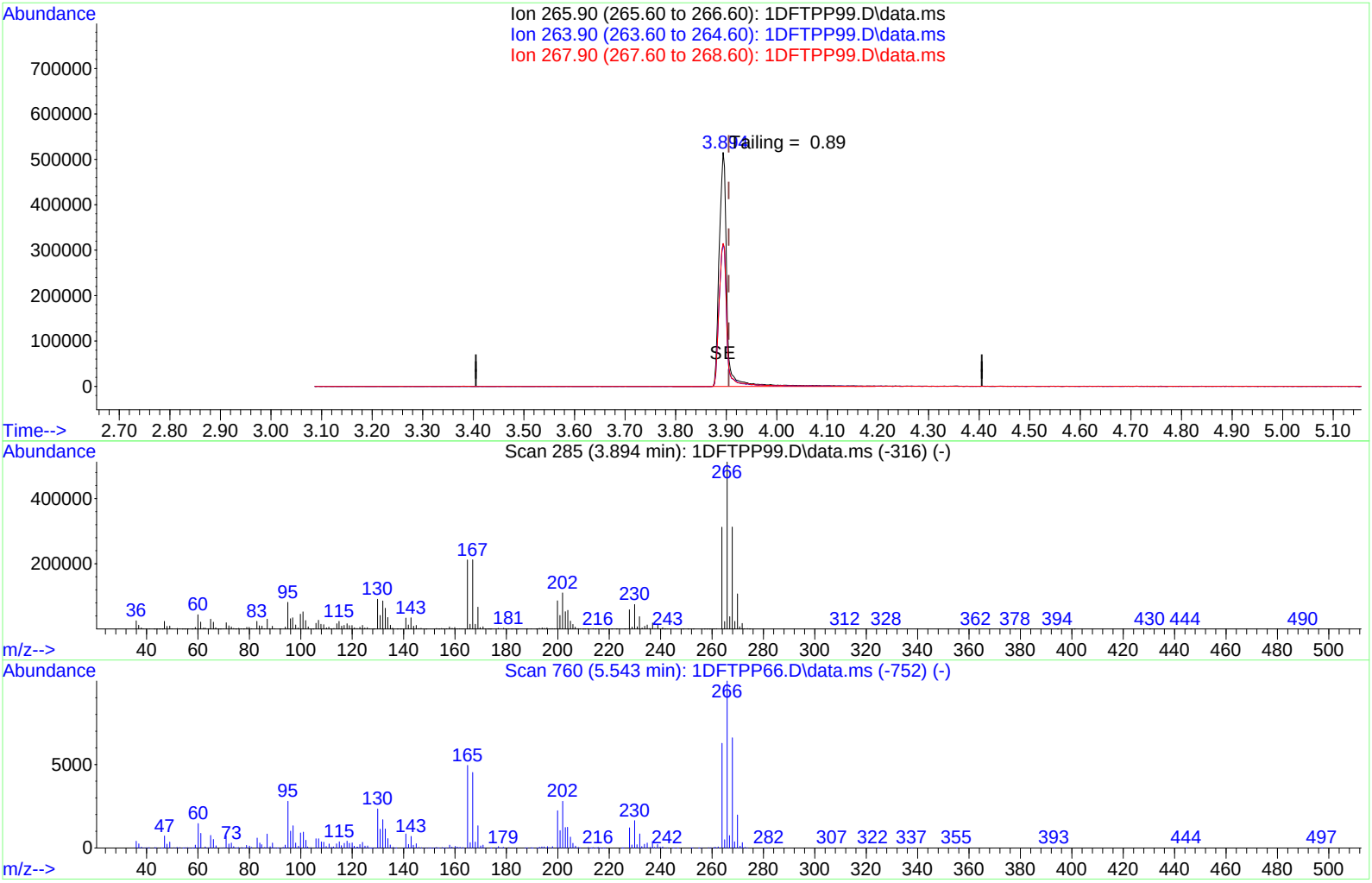
AutoFind: Scans 446, 447, 448; Background Corrected with Scan 435

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	119509	PASS
68	69	0.00	2	1.5	1391	PASS
70	69	0.00	2	0.4	419	PASS
127	198	10	80	44.8	158357	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	353578	PASS
199	198	5	9	6.6	23426	PASS
275	198	10	60	20.8	73578	PASS
365	198	1	100	1.8	6202	PASS
441	442	0.01	24	16.7	40976	PASS
442	198	50	100	69.5	245866	PASS
443	442	15	24	18.2	44794	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\Data\1S080513\1DFTPP99.D Vial: 1
Acq On : 5 Aug 2013 11:30 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 16:48:09 2013

Quant Method : C:\INSTARCH\Methods\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Jul 30 10:38:29 2013
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP99.D\data.ms

(1) Pentachlorophenol

3.894min (-0.011) 93.47 ng

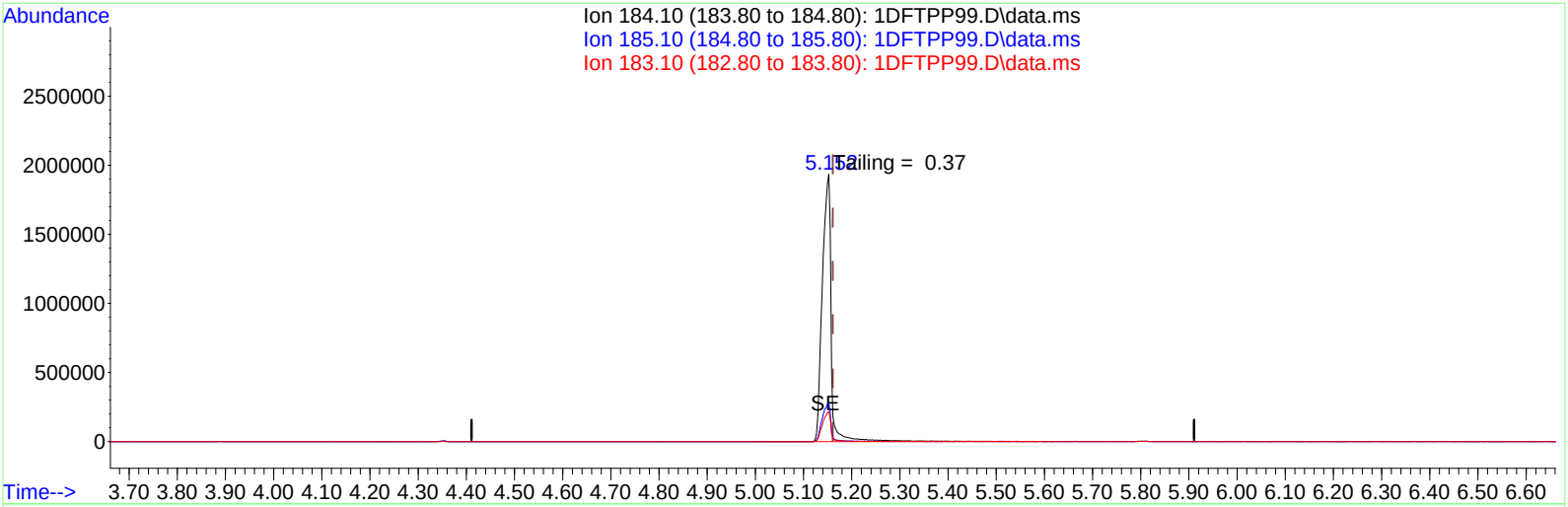
response 524937

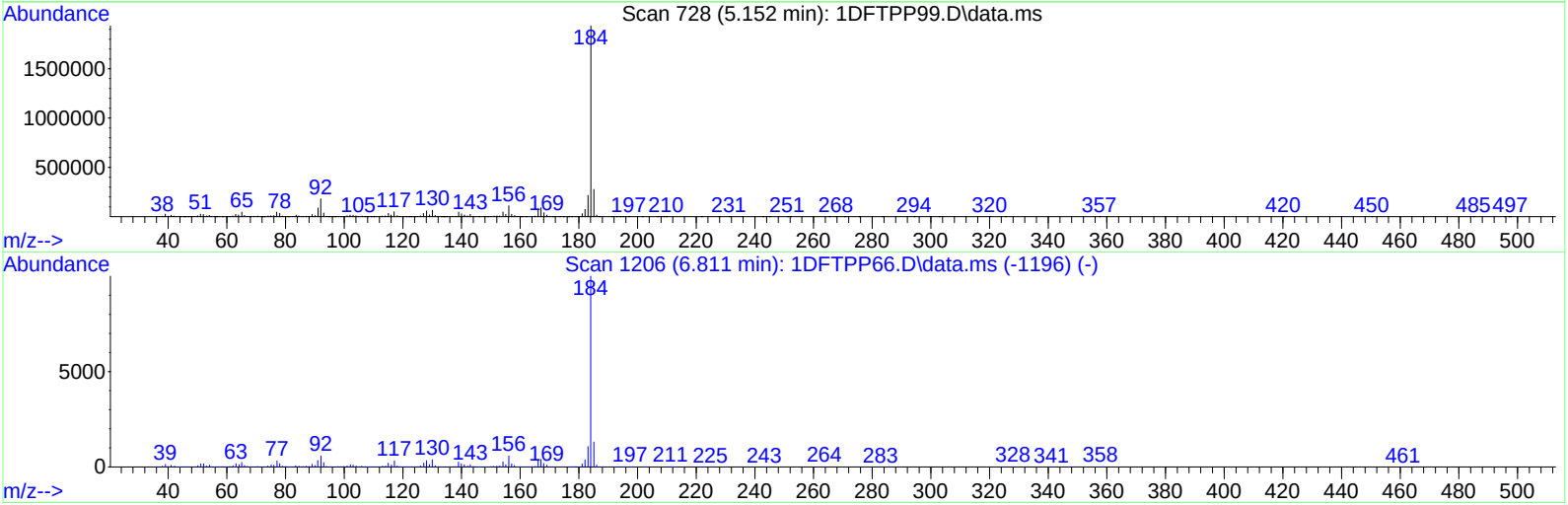
Ion	Exp%	Act%
265.90	100	100
263.90	66.20	60.99
267.90	60.90	61.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\Data\1S080513\1DFTPP99.D Vial: 1
Acq On : 5 Aug 2013 11:30 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 16:48:09 2013

Quant Method : C:\INSTARCH\Methods\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Jul 30 10:38:29 2013
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M





TIC: 1DFTPP99.D\data.ms

(3) Benzidine

5.152min (-0.009) 48.43 ng

response 2428401

Ion	Exp%	Act%
184.10	100	100
185.10	13.80	14.23
183.10	12.20	10.80
0.00	0.00	0.00

Data File	: 1DFTPP99.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\Data\1S080513\	Operator	: RPN
Date Acquired	: 8/5/2013 11:30	Instrument Name:	SVMS1
Sample Name	: DFTPP TUNE SVMS5691	Sample Multiplier:	1
Misc Info	: SVMS1,25 ug DFTPP		

Quant Method	: C:\INSTARCH\Methods\1DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Tue Aug 06 16:50:00 2013

Compound	R.T.	QIon	Response
1) Pentachlorophenol	3.89	266	524937
2) DFTPP	4.35	198	364428
3) Benzidine	5.15	184	2428401
4) DDE	5.30	246	1720
5) DDD	5.57	235	13433
6) DDT	5.81	235	974665

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 1.53\ \%$$

Response Factor Report SVMS1

Method Path : C:\INSTARCH\Methods\
Method File : 1S080513.M
Title : Method for 8270 analysis
Last Update : Tue Aug 06 15:21:29 2013
Response Via : Initial Calibration

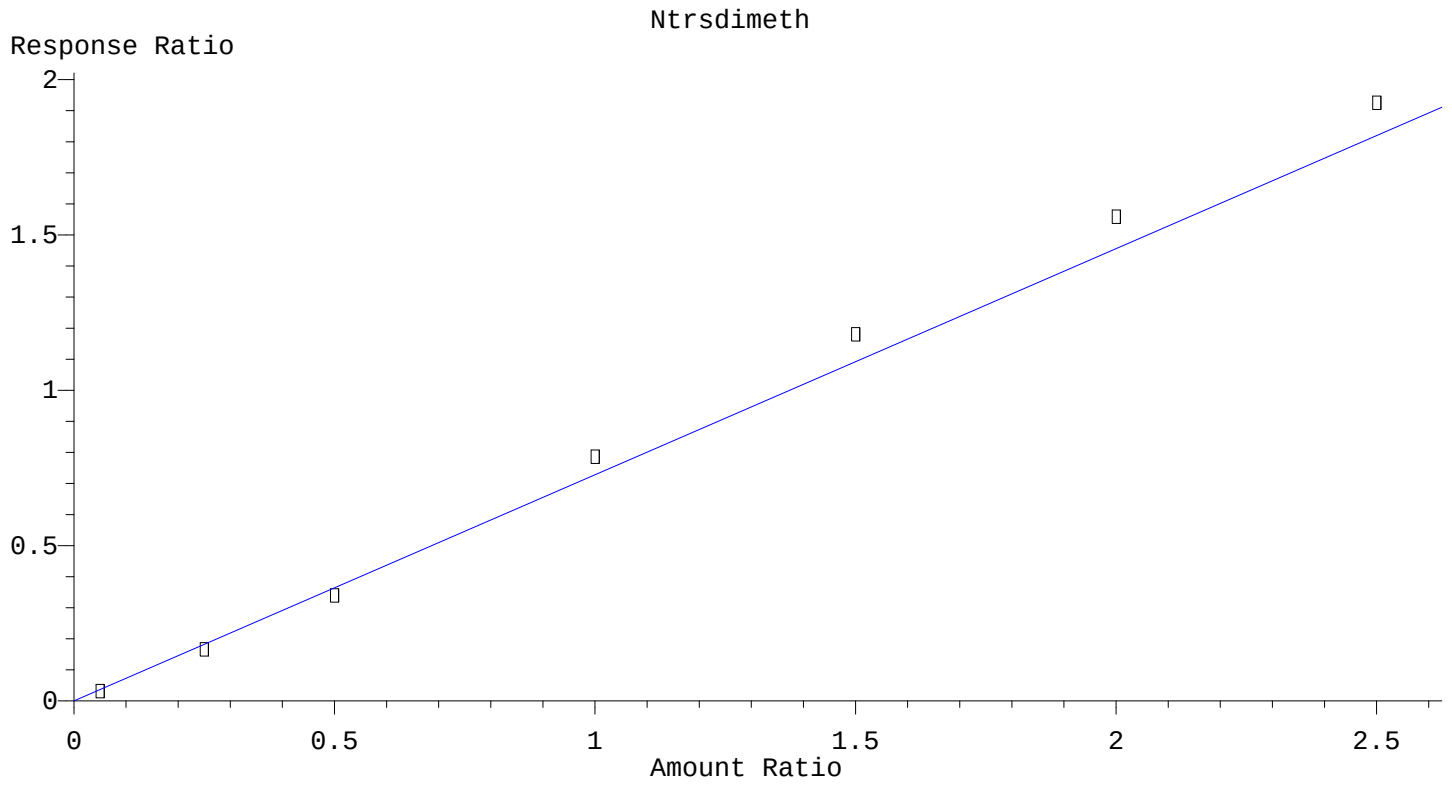
Calibration Files
1 =1ICAL1.D 5 =1ICAL2.D 10 =1ICAL3.D 20 =1ICAL4.D 30 =1ICAL5.D 40 =1ICAL6.D 50 =1ICAL7.D

		Compound	1	5	10	20	30	40	50	Avg	%RSD
1)	I	14Diclbenzd4	----------ISTD----------								
2)	CT	Ntrsdimeth	0.633	0.664	0.679	0.786	0.787	0.779	0.770	0.728	9.19
3)	CT	Pyridine	1.243	1.238	1.248	1.419	1.462	1.500	1.454	1.366	8.62
4)	S	SURR2Flphenol	0.374	0.524	0.540	0.612	0.597	0.585	0.583	0.545	14.96
5)	CT	Aniline	1.748	1.762	1.789	1.895	1.864	1.765	1.703	1.789	3.76
6)	CPT	bis2Clethletr	1.346	1.239	1.224	1.250	1.182	1.139	1.092	1.210	6.83
7)	S	SURRPhenol-d5	0.588	0.599	0.577	0.616	0.583	0.564	0.544	0.582	3.98
8)	CPT	Phenol	1.843	1.796	1.675	1.793	1.685	1.625	1.532	1.707	6.45
9)	CPT	2-Cl-phenol	1.579	1.523	1.431	1.512	1.432	1.395	1.311	1.455	6.19
10)	CT	13Diclbenz	1.965	1.786	1.622	1.727	1.673	1.572	1.524	1.696	8.75
11)	CT	14Diclbenz	1.839	1.698	1.532	1.671	1.562	1.486	1.442	1.604	8.64
12)	CT	12Diclbenz	1.713	1.679	1.529	1.645	1.583	1.505	1.465	1.588	5.89
13)	CT	Benzyl alcoho	0.502	0.631	0.671	0.782	0.791	0.759	0.771	0.701	15.24
14)	CPT	bis2clispreth	2.339	2.093	1.951	2.057	2.019	1.905	1.890	2.036	7.54
15)	CPT	2Methylphenol	1.110	0.994	0.930	0.971	0.991	0.904	0.872	0.968	8.04
16)	CT	Ntrspyrrol	0.473	0.532	0.507	0.577	0.553	0.507	0.497	0.521	6.83
17)	CPT	Acetophenone	1.372	1.672	1.525	1.677	1.615	1.521	1.507	1.556	6.94
18)	CPT	Hexaclethane	0.704	0.669	0.605	0.620	0.570	0.544	0.520	0.605	10.94
19)	CPT	N-Ntrsdinprop	0.758	0.705	0.687	0.737	0.719	0.678	0.657	0.706	4.97
20)	CPT	3&4Methylphenol	1.166	1.253	1.177	1.213	1.156	1.109	1.099	1.167	4.64
21)	I	Naphthalened8	----------ISTD----------								
22)	S	SURRNitrbenzened5	0.053	0.061	0.058	0.062	0.059	0.057	0.056	0.058	4.90
23)	CPT	Nitrobenzene	0.288	0.296	0.284	0.296	0.275	0.271	0.265	0.282	4.29
24)	CPT	Isophorone	0.544	0.543	0.507	0.556	0.549	0.540	0.539	0.540	2.90
25)	CPT	2-Nitrophenol	0.177	0.206	0.193	0.216	0.204	0.203	0.195	0.199	6.20
26)	CPT	24Dimthpheno	0.278	0.271	0.260	0.294	0.291	0.288	0.271	0.279	4.51
27)	CPT	bis2clethoxym	0.364	0.391	0.366	0.412	0.381	0.377	0.369	0.380	4.48
28)	CPT	24Diclphenol	0.309	0.324	0.312	0.339	0.315	0.312	0.299	0.316	3.96
29)	CT	124Triclbenz	0.402	0.380	0.347	0.374	0.336	0.325	0.318	0.355	8.81
30)	CT	Benzoic acid		0.107	0.140	0.178	0.174	0.171	0.168	0.156	17.74
31)	CPT	Naphthalene	1.082	1.035	0.927	1.011	0.922	0.895	0.865	0.962	8.37
32)	CPT	4-Cl-aniline	0.405	0.424	0.414	0.431	0.398	0.395	0.377	0.406	4.51
33)	CT	26Diclphenol	0.270	0.276	0.260	0.274	0.247	0.246	0.233	0.258	6.36
34)	CT	Hexaclprop	0.212	0.226	0.208	0.223	0.212	0.212	0.201	0.213	3.96
35)	CPT	Hexaclbutdien	0.209	0.200	0.189	0.194	0.181	0.179	0.170	0.189	7.13
36)	CPT	4Cl3methylphe	0.311	0.347	0.335	0.382	0.366	0.361	0.357	0.351	6.58
37)	CPT	2Methylnaphth	1.044	1.077	0.953	1.039	0.949	0.901	0.869	0.976	8.04
38)	CT	1Methylnaphth	0.998	0.958	0.829	0.905	0.813	0.777	0.775	0.865	10.32
39)	I	Acenaphthened10	----------ISTD----------								
40)	CPT	Hxclcycpentdi	0.200	0.287	0.303	0.341	0.325	0.306	0.284	0.292	15.51
41)	CT	1245Tetrclbenz	0.733	0.702	0.625	0.633	0.575	0.536	0.501	0.615	13.73
42)	CPT	246Triclpheno	0.381	0.402	0.386	0.422	0.403	0.388	0.372	0.393	4.28

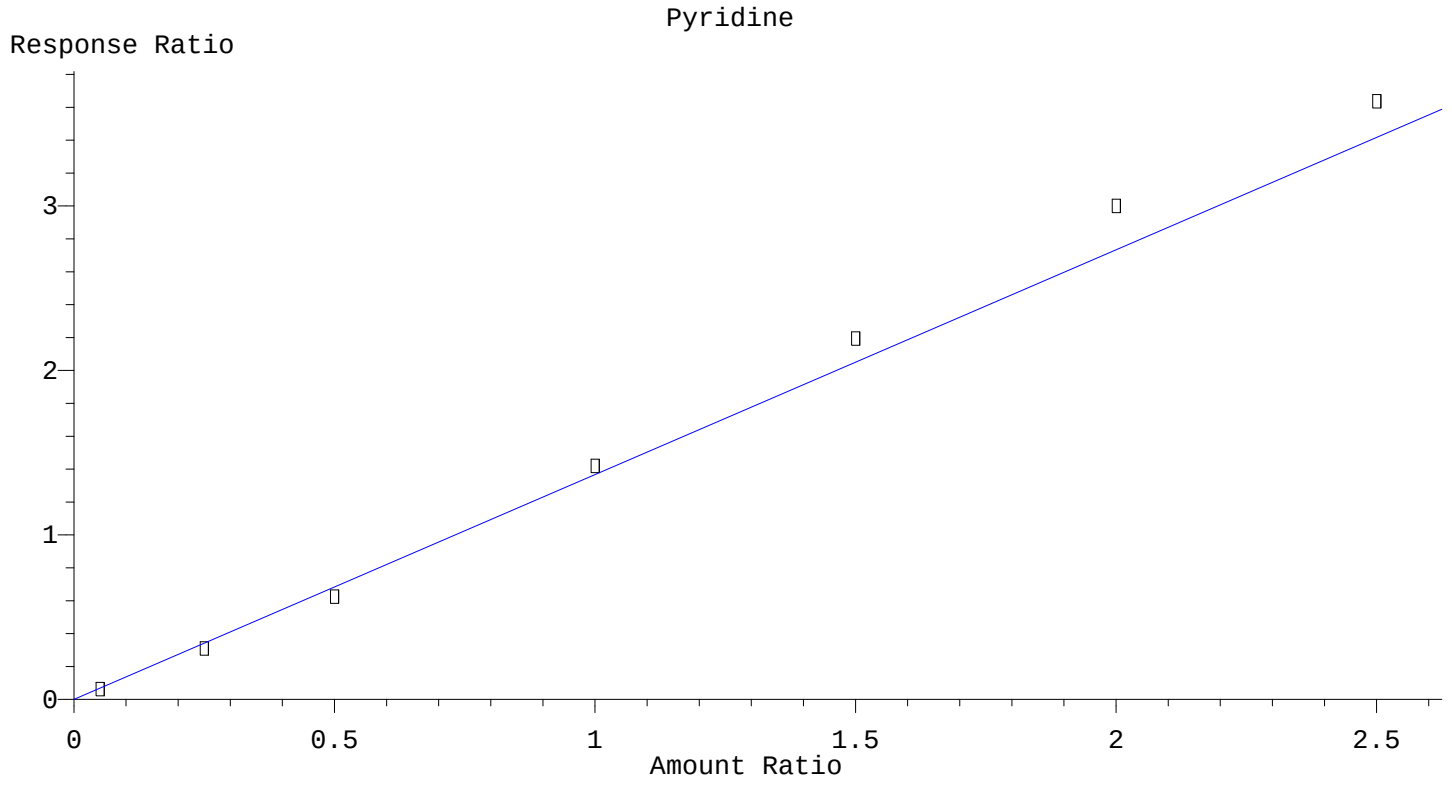
Method Path : C:\INSTARCH\Methods\
Method File : 1S080513.M

43)	CPT	245Triclpheno	0.394	0.428	0.436	0.478	0.447	0.430	0.399	0.430	6.60
44)	S	SURR2Flbiphenyl	0.315	0.289	0.264	0.276	0.245	0.229	0.222	0.263	12.75
45)	CPT	2Clnaphthalen	1.392	1.263	1.213	1.262	1.114	1.067	0.995	1.187	11.45
46)	CPT	2Nitroaniline	0.173	0.241	0.241	0.260	0.258	0.241	0.224	0.234	12.60
47)	CPT	Acnaphthylene	2.360	2.054	1.791	1.735	1.462	1.387	1.295	1.726	22.24#
48)	CPT	Dimethylphtha	1.556	1.430	1.253	1.188	0.962	0.899	0.856	1.163	23.26#
49)	CPT	26Dinitrotolu	0.331	0.314	0.286	0.311	0.276	0.265	0.261	0.292	9.20
50)	CPT	Acenaphthene	1.269	1.070	0.986	0.997	0.845	0.794	0.734	0.956	19.17
51)	CPT	3Nitroaniline	0.276	0.325	0.294	0.302	0.247	0.236	0.220	0.271	14.16
52)	CPT	24Dinitphenol		0.114	0.141	0.185	0.191	0.189	0.175	0.166	18.96
53)	CPT	Dibenzofuran	1.871	1.682	1.574	1.566	1.398	1.347	1.259	1.528	13.79
54)	CPT	24Dinitrotolu	0.359	0.388	0.381	0.406	0.370	0.337	0.323	0.366	7.91
55)	CPT	4-Nitrophenol		0.184	0.193	0.233	0.227	0.209	0.203	0.208	9.07
56)	CT	2,3,5,6-Tetrac...	0.230	0.300	0.294	0.324	0.301	0.286	0.273	0.287	10.27
57)	CPT	2,3,4,6-Tetrac...	0.354	0.375	0.358	0.375	0.327	0.311	0.293	0.342	9.32
58)	CPT	Fluorene	1.526	1.334	1.188	1.144	0.958	0.870	0.810	1.118	23.11#
59)	CPT	4Clphlphlethr	0.738	0.652	0.596	0.586	0.514	0.456	0.431	0.568	19.23
60)	CPT	Diethylphthal	1.540	1.323	1.232	1.168	0.950	0.879	0.818	1.130	23.13#
61)	CPT	4Nitroaniline	0.186	0.295	0.245	0.297	0.301	0.284	0.276	0.269	15.31
62)	S	SURR246Tribrphenl	0.071	0.072	0.070	0.071	0.064	0.060	0.056	0.066	9.52
63)	I	Phenanthrd10	----------ISTD----------								
64)	CPT	46Dinit2mylph		0.125	0.135	0.148	0.147	0.136	0.132	0.137	6.59
65)	CPT	Ntrsdiphlam&Di...	0.606	0.496	0.449	0.429	0.349	0.318	0.293	0.420	26.26#
66)	CT	Azobenz&12Diph...	0.214	0.171	0.157	0.146	0.129	0.119	0.108	0.149	24.11#
67)	CPT	4Brphlphlethr	0.274	0.249	0.227	0.229	0.209	0.194	0.183	0.223	14.09
68)	CPT	Hexaclbenzene	0.293	0.273	0.249	0.243	0.213	0.193	0.182	0.235	17.41
69)	CPT	Pentaclphenol		0.116	0.136	0.161	0.164	0.156	0.155	0.148	12.48
70)	CPT	Phenanthrene	1.369	1.121	1.062	1.017	0.928	0.862	0.815	1.025	18.21
71)	CPT	Anthracene	1.399	1.211	1.104	1.054	0.955	0.897	0.832	1.064	18.35
72)	CPT	Carbazole	1.312	1.043	0.985	0.972	0.953	0.894	0.879	1.005	14.54
73)	CPT	Dinbtylphthal	1.579	1.515	1.434	1.442	1.291	1.164	1.140	1.367	12.51
74)	CPT	Fluoranthene	1.471	1.346	1.228	1.233	1.124	1.046	0.983	1.205	14.08
75)	I	Chrysene-d12	----------ISTD----------								
76)	CT	Benzidine	0.777	0.723	0.678	0.602	0.913	0.794	0.671	0.737	13.82
77)	CPT	Pyrene	2.958	2.636	2.529	2.643	2.404	2.284	2.168	2.517	10.43
78)	S	SURRTerphenyl-d14	0.217	0.210	0.198	0.211	0.192	0.185	0.185	0.199	6.58
79)	CPT	Btylbzylphth	0.672	0.701	0.693	0.758	0.726	0.675	0.710	0.705	4.30
80)	TM	bis2Ethlhxlad	0.596	0.589	0.567	0.623	0.575	0.542	0.525	0.574	5.80
81)	CPT	33Diclbnzidin	0.348	0.313	0.272	0.305	0.290	0.297	0.305	0.304	7.67
82)	CPT	B[a]anthracen	1.203	1.105	1.034	1.192	1.139	1.124	1.153	1.136	5.02
83)	CPT	Chrysene	1.151	1.053	1.068	1.105	1.025	0.993	0.982	1.054	5.75
84)	CPT	bis2Ethlhxlph	0.883	0.951	0.923	1.024	0.956	0.938	0.903	0.940	4.81
85)	CPT	Dinoctylphthl	1.480	1.657	1.700	1.970	1.827	1.803	1.785	1.746	8.82
86)	I	Perylene-d12	----------ISTD----------								
87)	CPT	B[b]fluoranth	1.251	1.313	1.030	1.174	1.124	1.000	1.073	1.138	10.13
88)	CPT	B[k]fluoranth	1.299	1.110	1.003	1.129	0.869	0.864	1.072	1.050	14.64
89)	CPT	Benz[a]pyrene	1.329	1.185	1.106	1.154	1.057	0.983	0.972	1.112	11.23
90)	CPT	Indeno-pyrene	1.303	1.308	1.201	1.310	1.193	1.135	1.114	1.223	6.85
91)	CPT	Dib[ah]anthr	0.869	1.005	0.973	1.009	0.886	0.832	0.791	0.909	9.55
92)	CPT	B[ghi]perylen	1.256	1.149	1.089	1.160	1.042	0.982	0.972	1.093	9.43

Method Path : C:\INSTARCH\Methods\
Method File : 1S080513.M
(#) = Out of Range

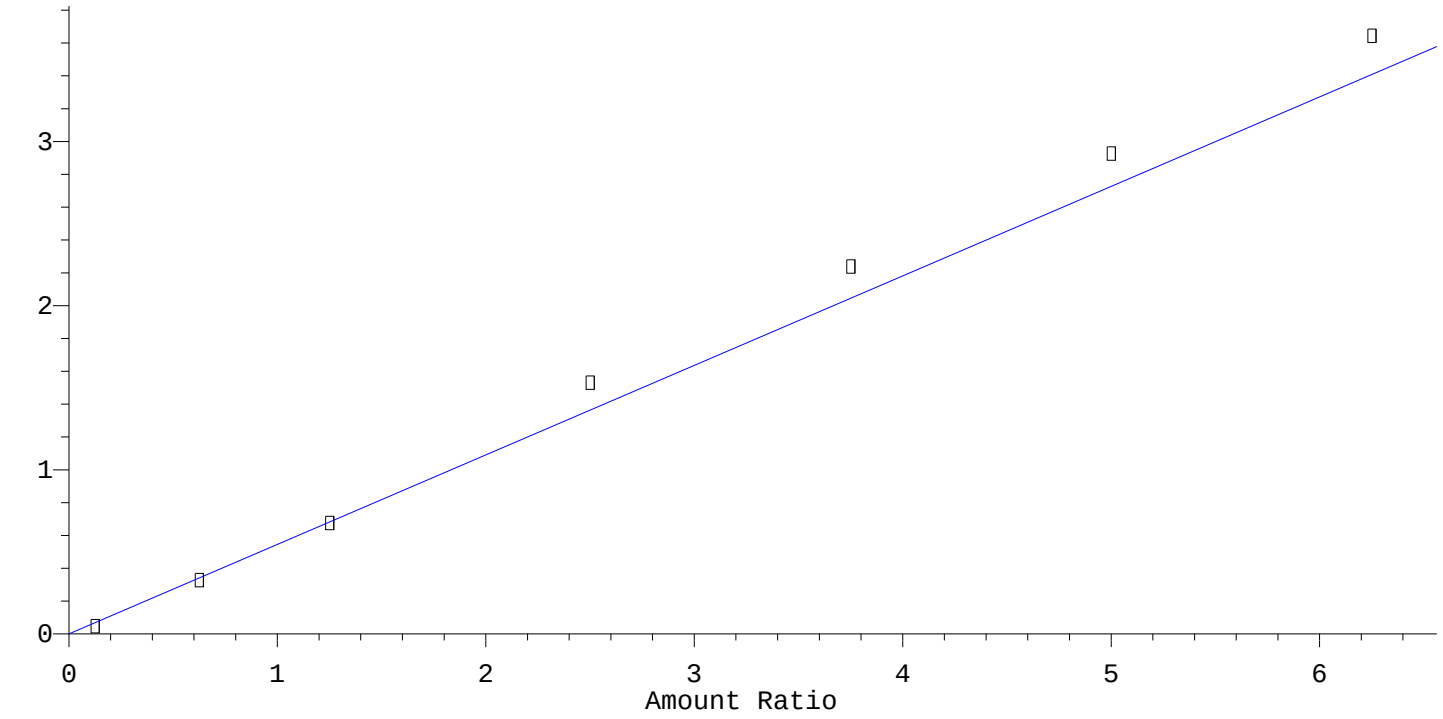


Resp Ratio = 7.28e-001 * Amt
RF Rel Std Dev = 9.2% Curve Fit: Avg RF



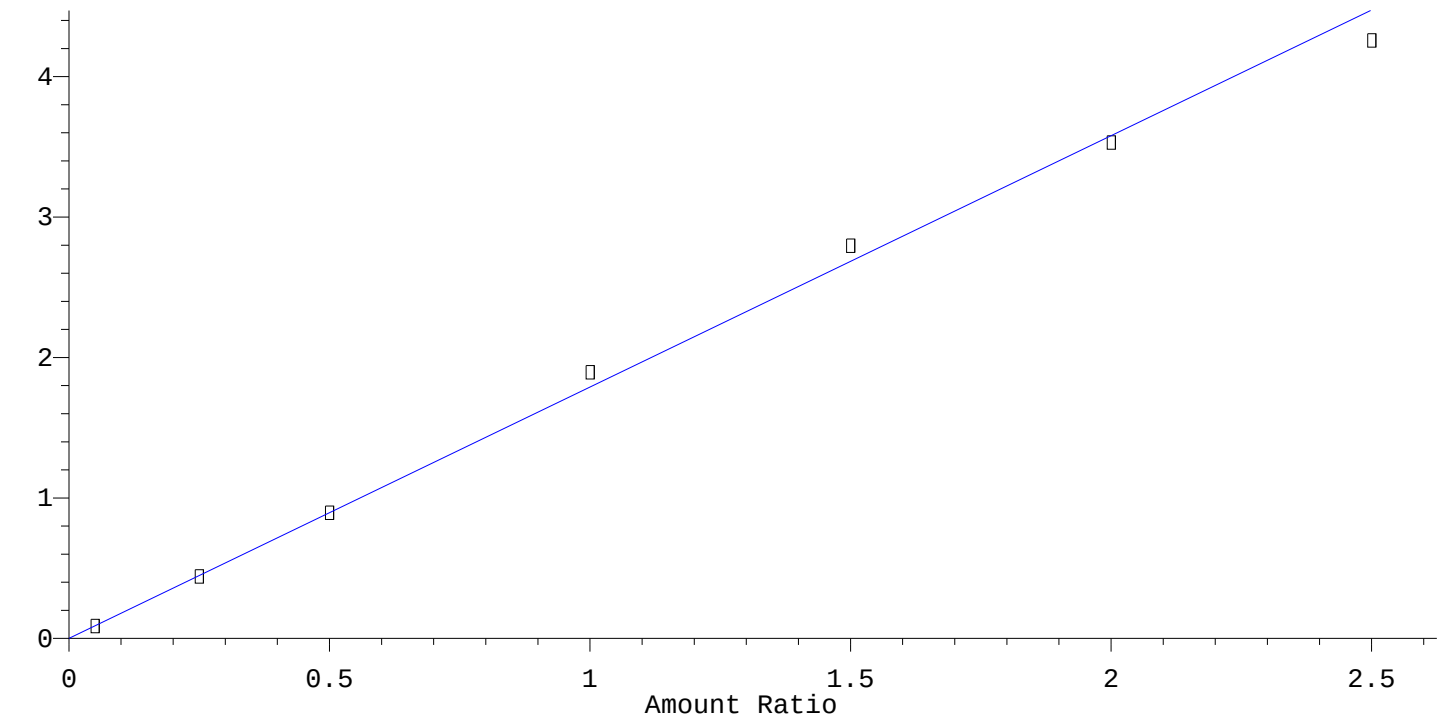
Resp Ratio = 1.37e+000 * Amt
RF Rel Std Dev = 8.6% Curve Fit: Avg RF

SURR2Flphenol

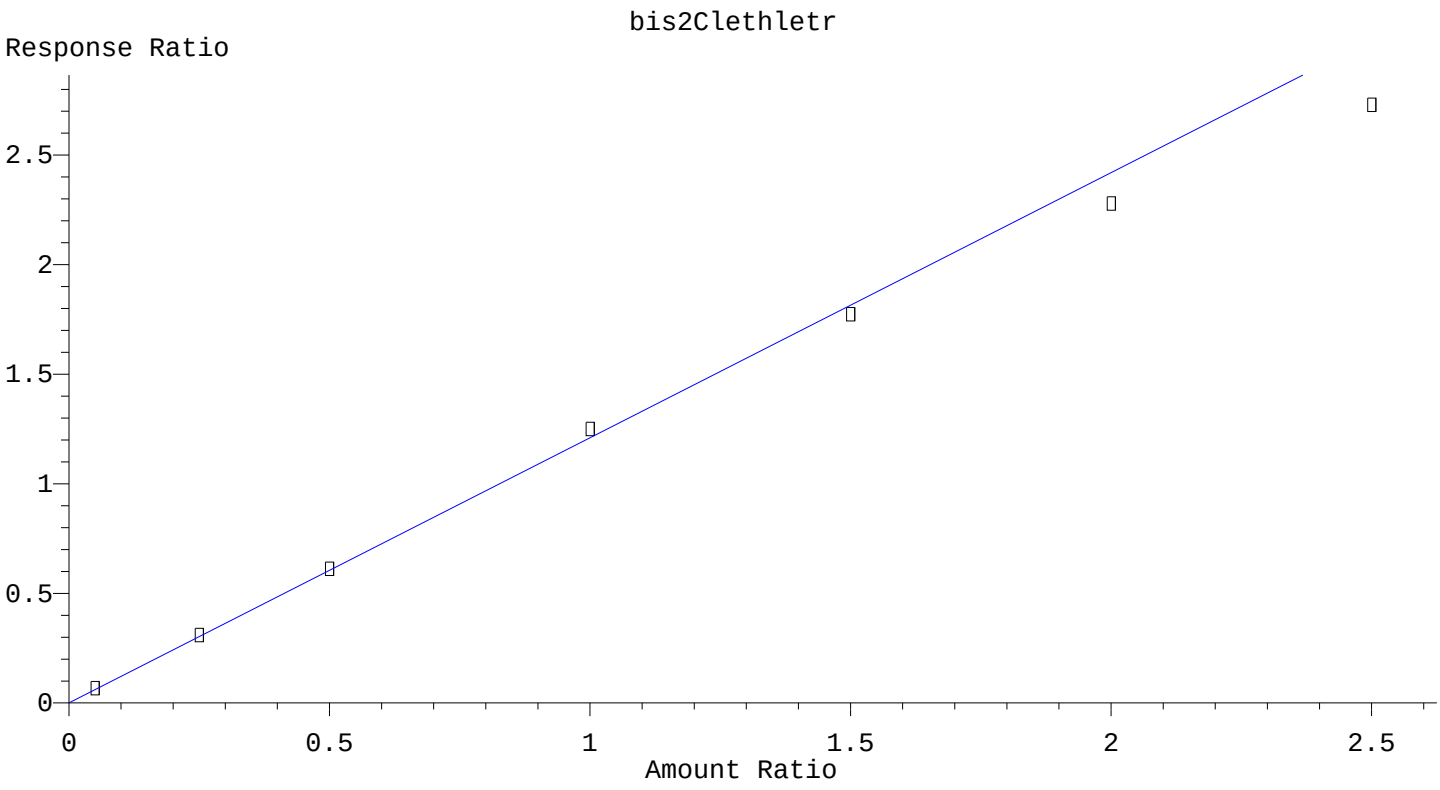


Resp Ratio = 5.45e-001 * Amt
RF Rel Std Dev = 15.0% Curve Fit: Avg RF

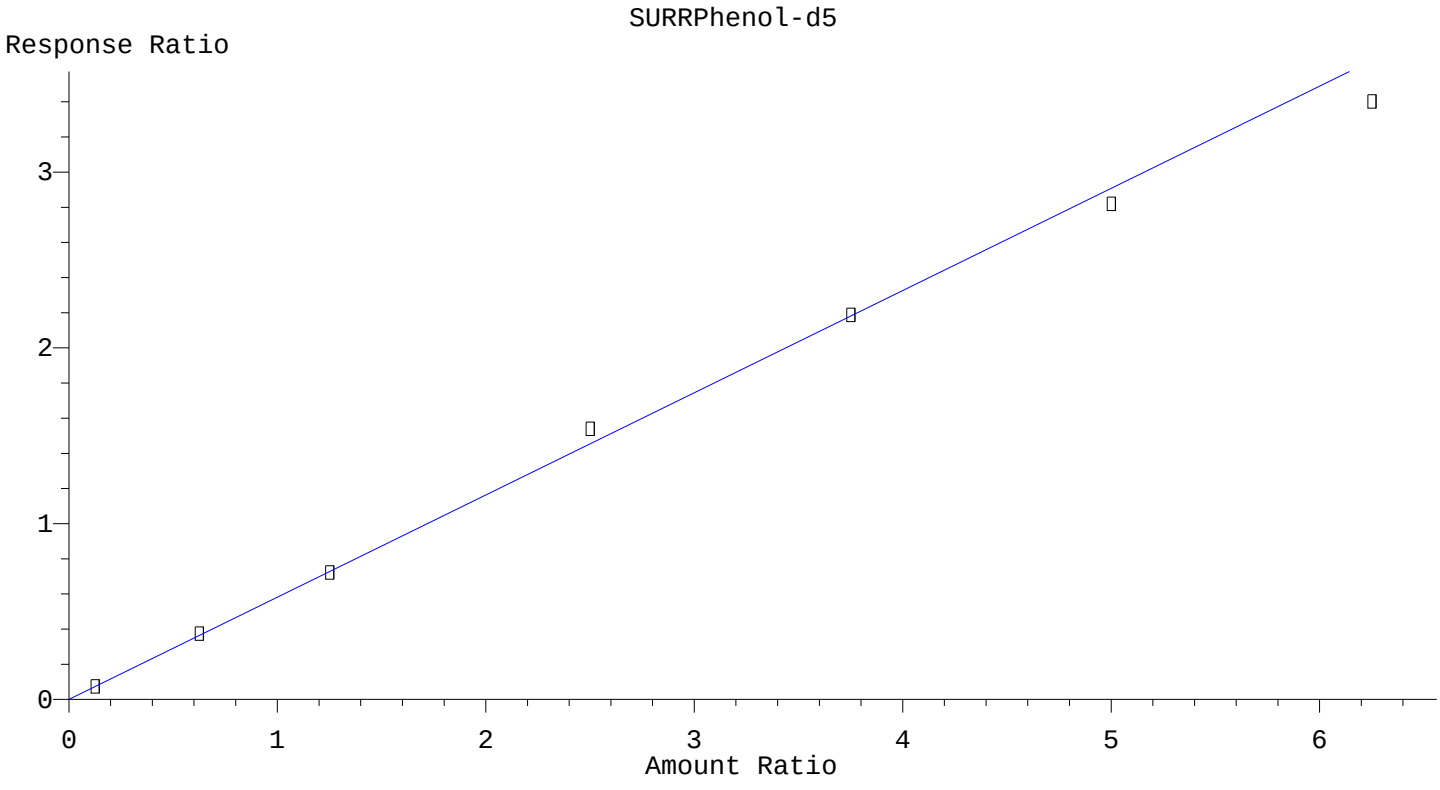
Aniline



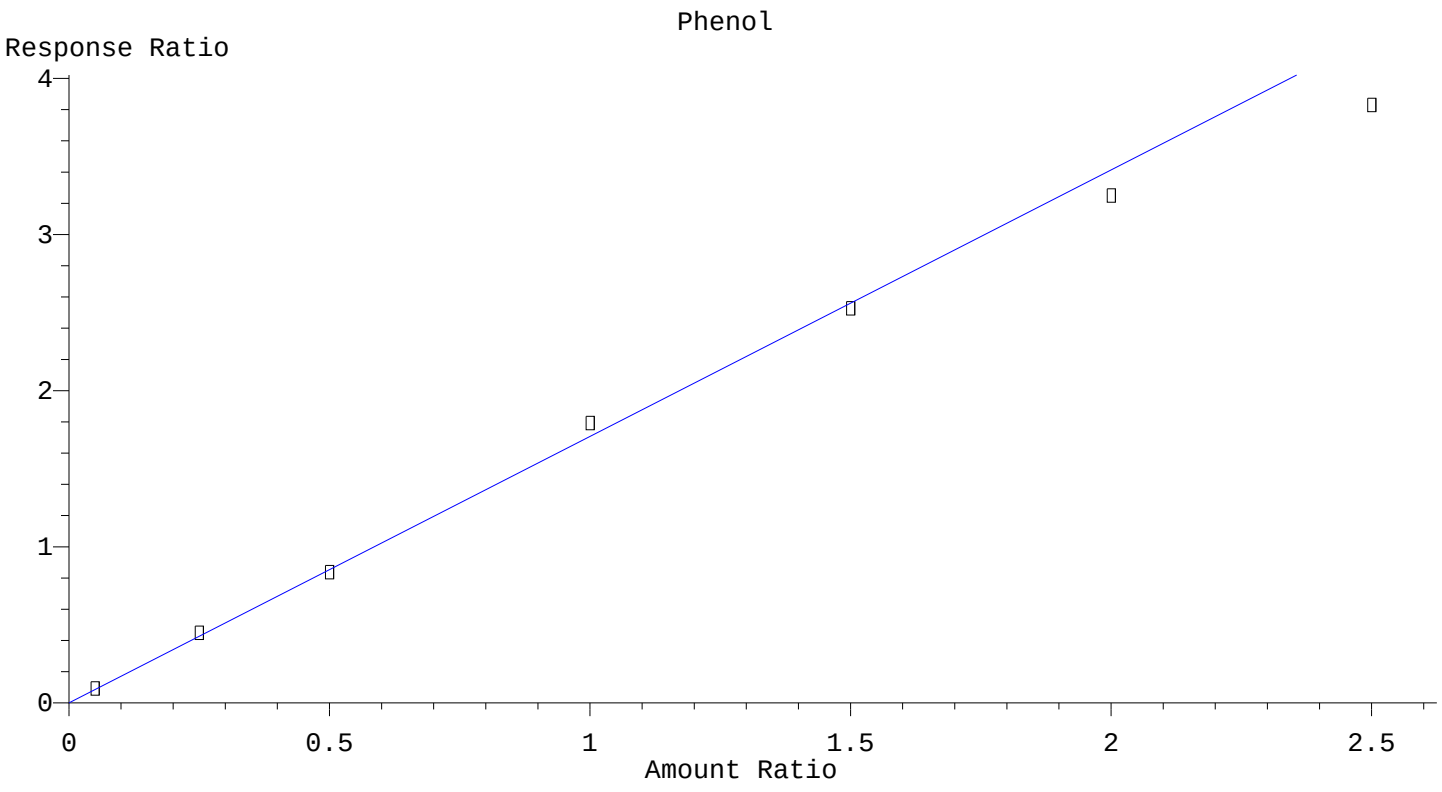
Resp Ratio = 1.79e+000 * Amt
RF Rel Std Dev = 3.8% Curve Fit: Avg RF



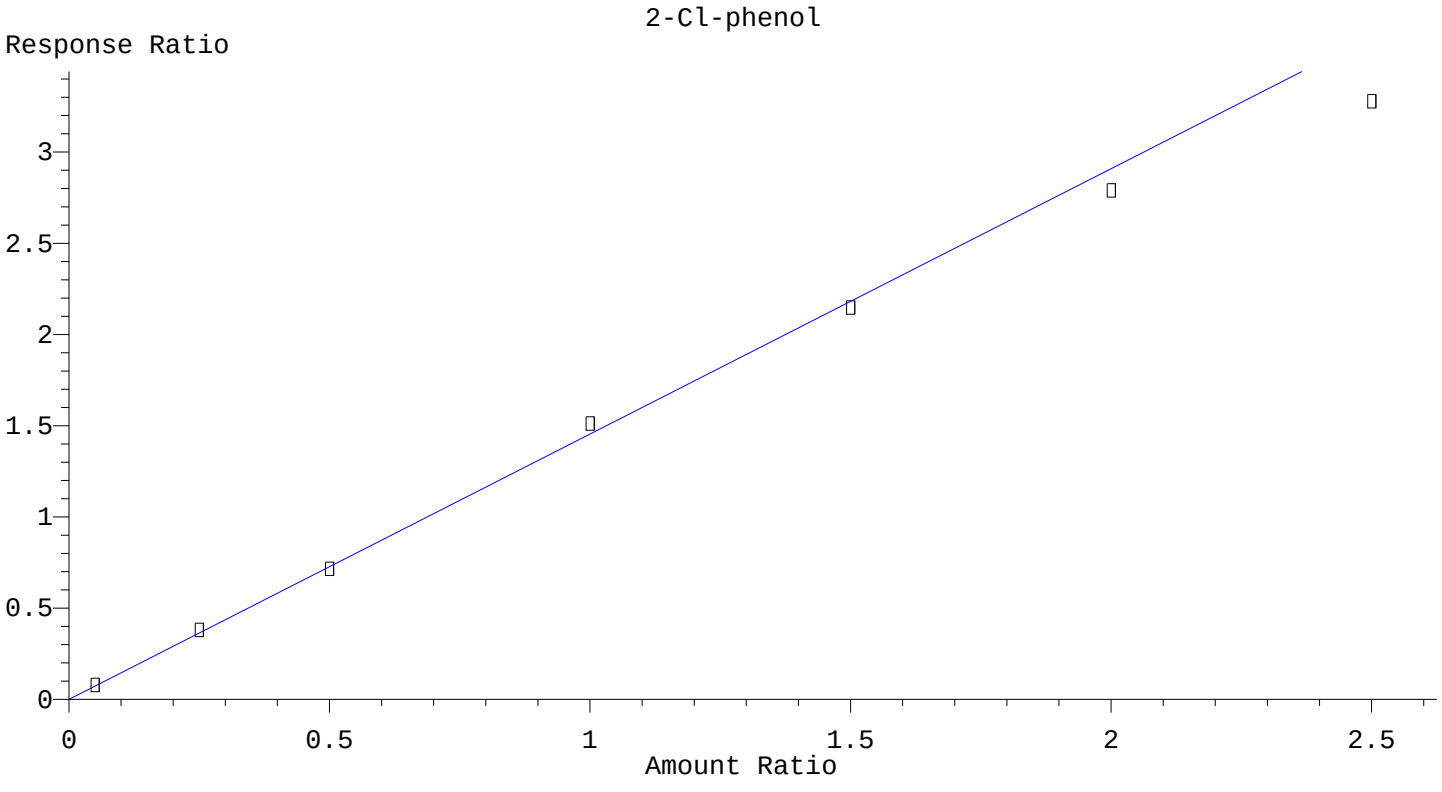
Resp Ratio = 1.21e+000 * Amt
RF Rel Std Dev = 6.8% Curve Fit: Avg RF



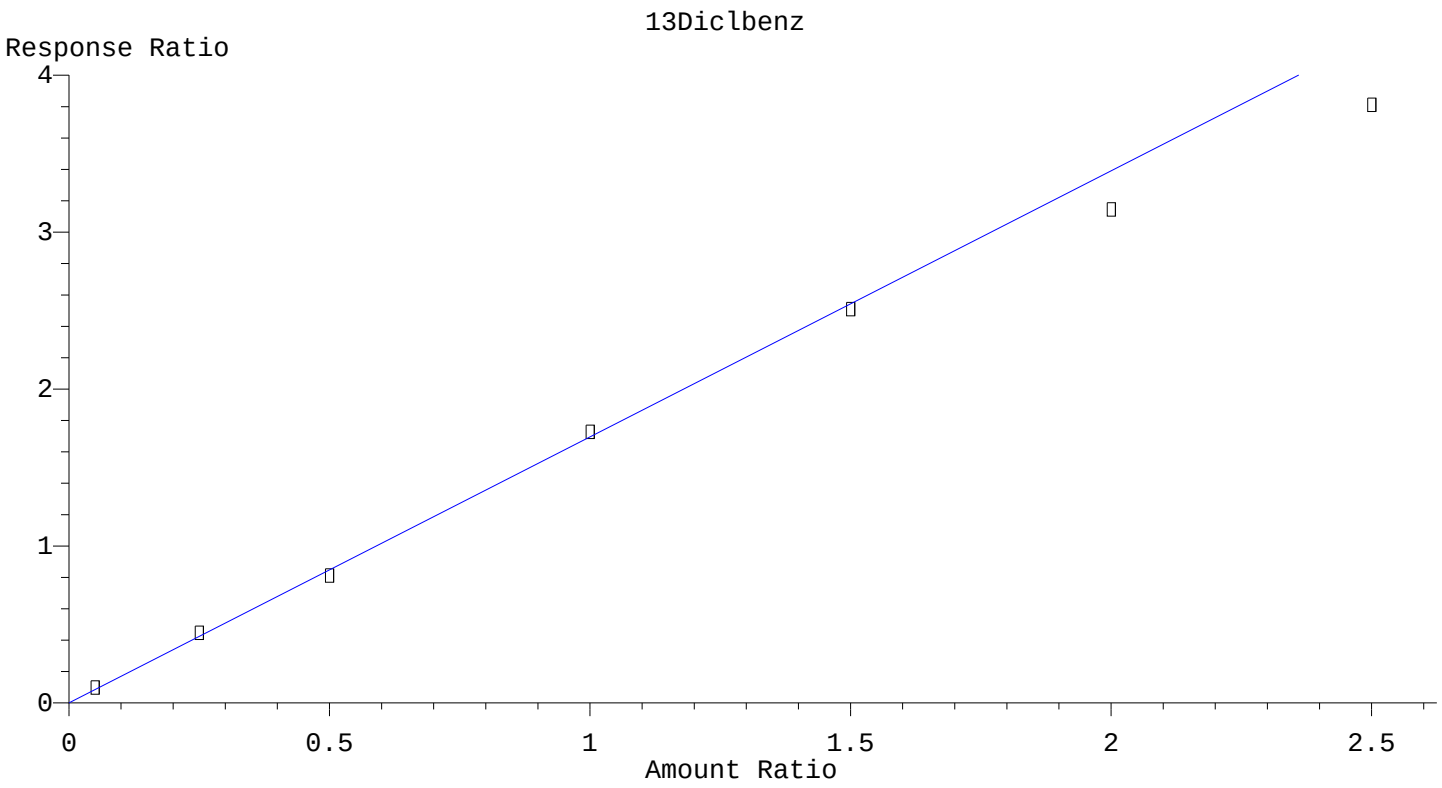
Resp Ratio = 5.82e-001 * Amt
RF Rel Std Dev = 4.0% Curve Fit: Avg RF



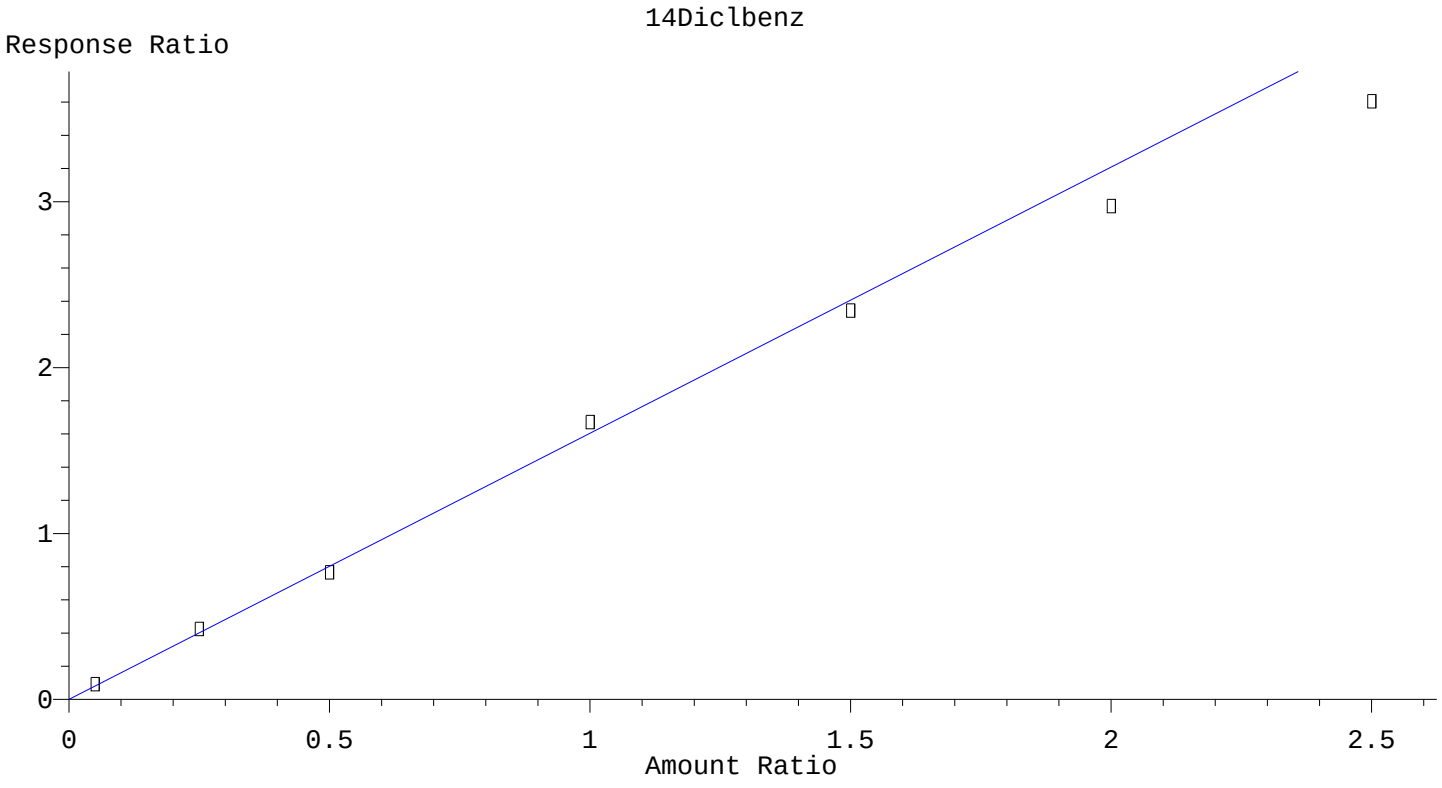
Resp Ratio = 1.71e+000 * Amt
RF Rel Std Dev = 6.5% Curve Fit: Avg RF



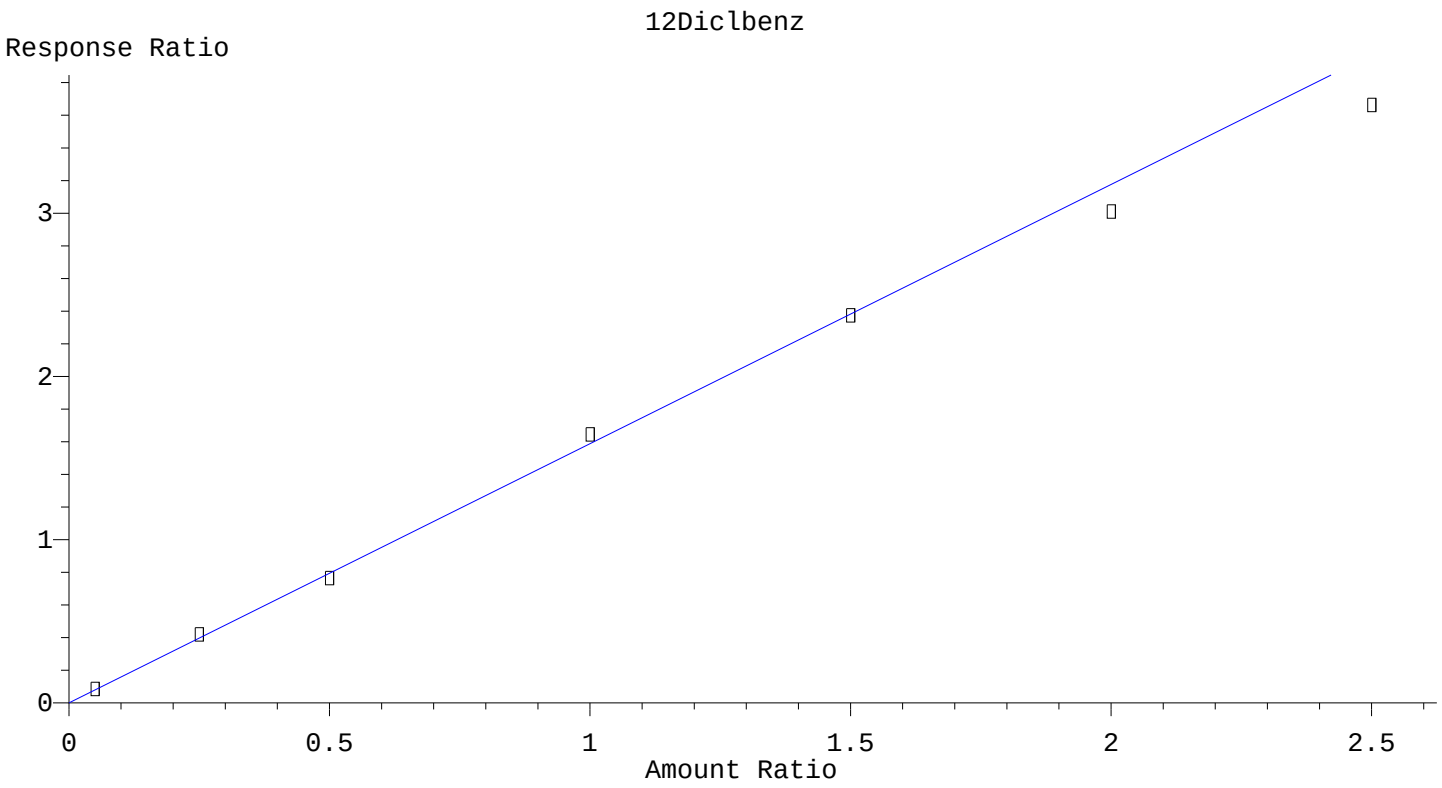
Resp Ratio = 1.45e+000 * Amt
RF Rel Std Dev = 6.2% Curve Fit: Avg RF



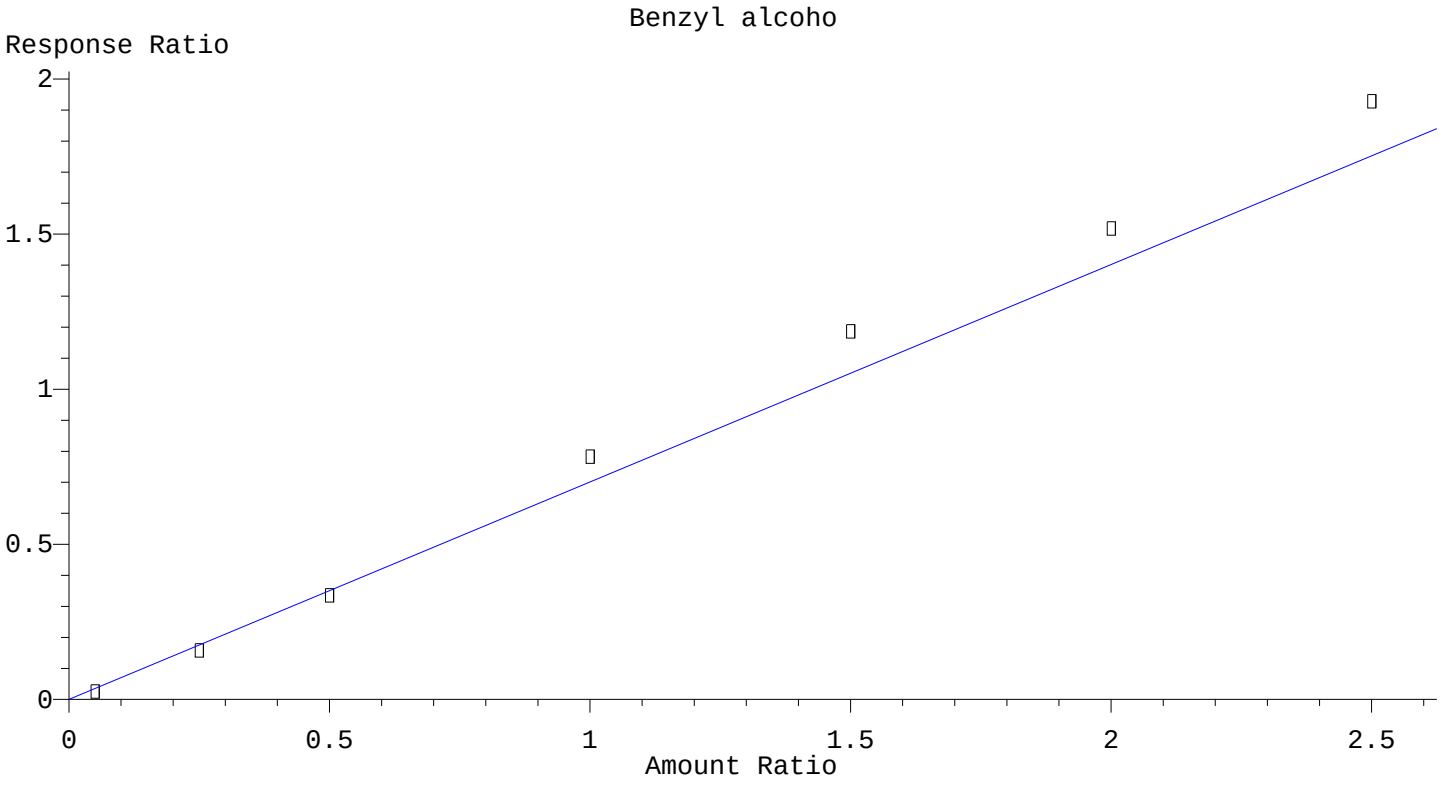
Resp Ratio = 1.70e+000 * Amt
RF Rel Std Dev = 8.8% Curve Fit: Avg RF



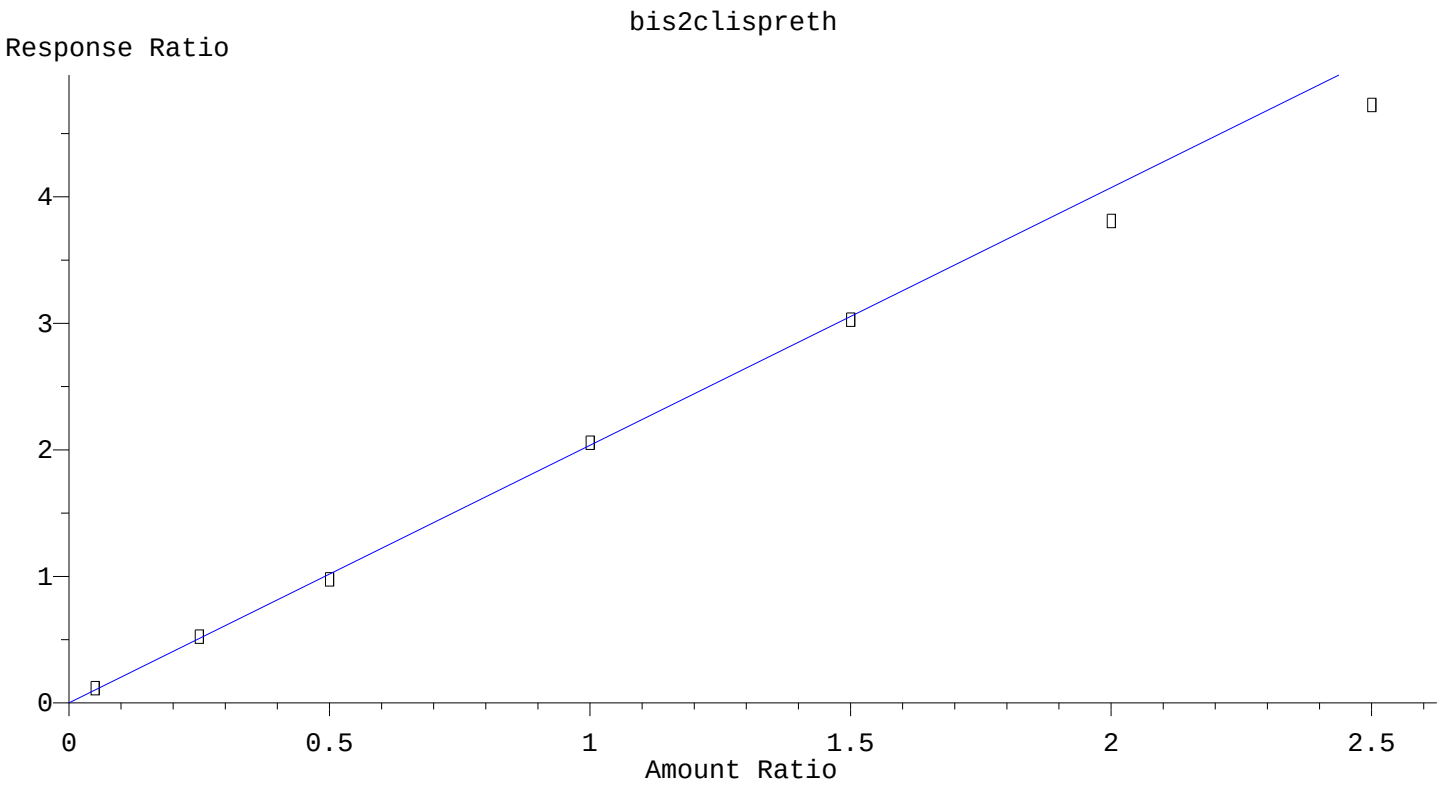
Resp Ratio = 1.60e+000 * Amt
RF Rel Std Dev = 8.6% Curve Fit: Avg RF



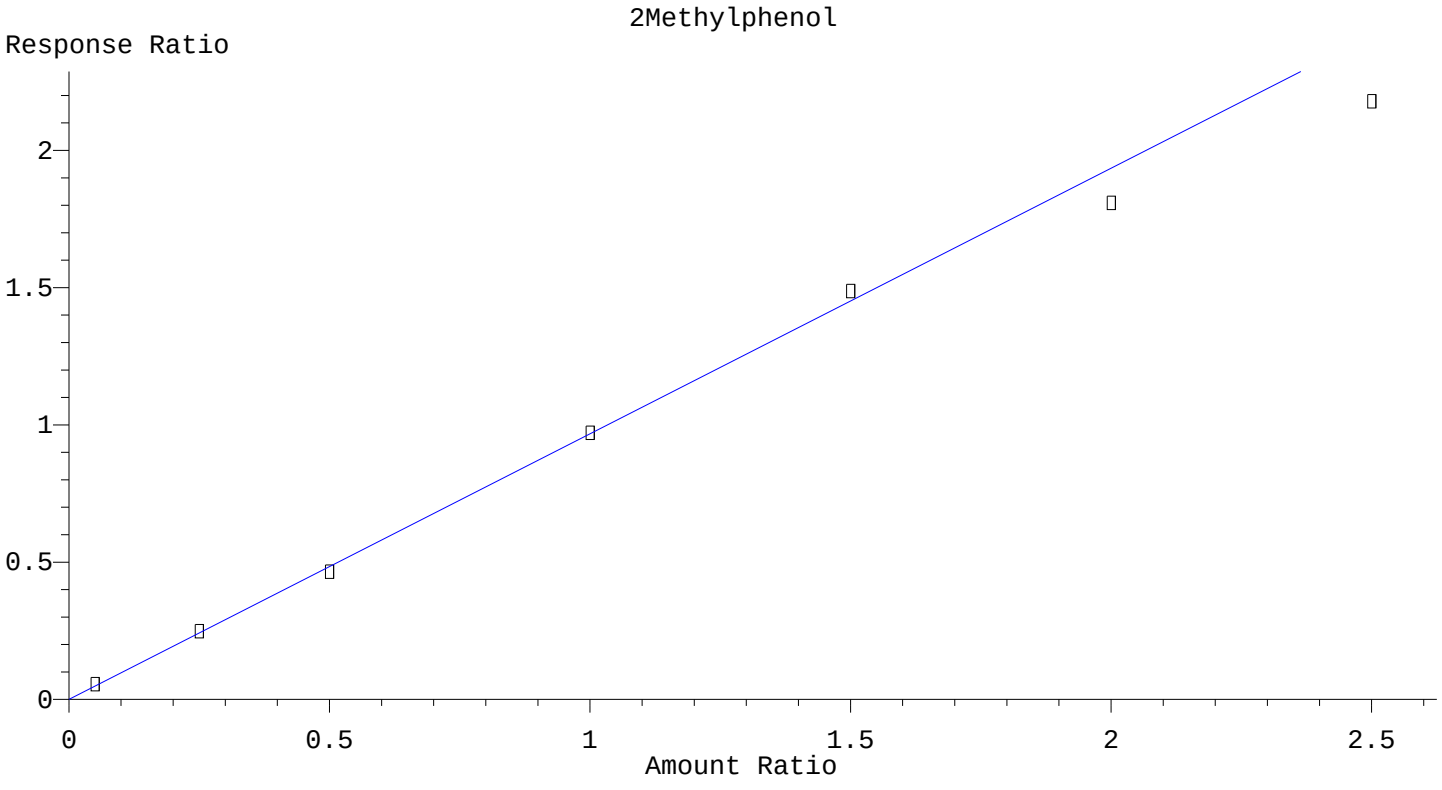
Resp Ratio = 1.59e+000 * Amt
RF Rel Std Dev = 5.9% Curve Fit: Avg RF



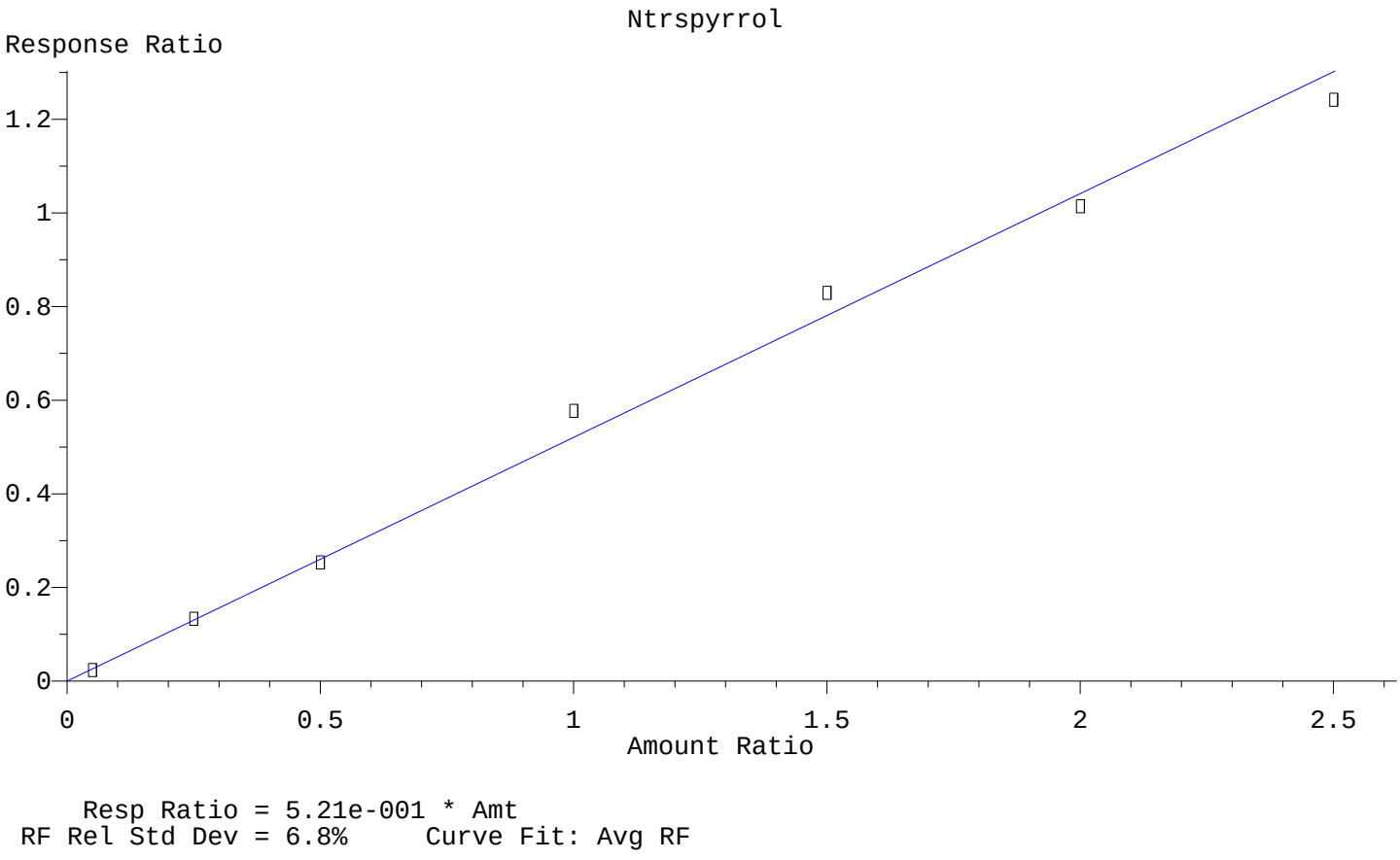
Resp Ratio = 7.01e-001 * Amt
RF Rel Std Dev = 15.2% Curve Fit: Avg RF



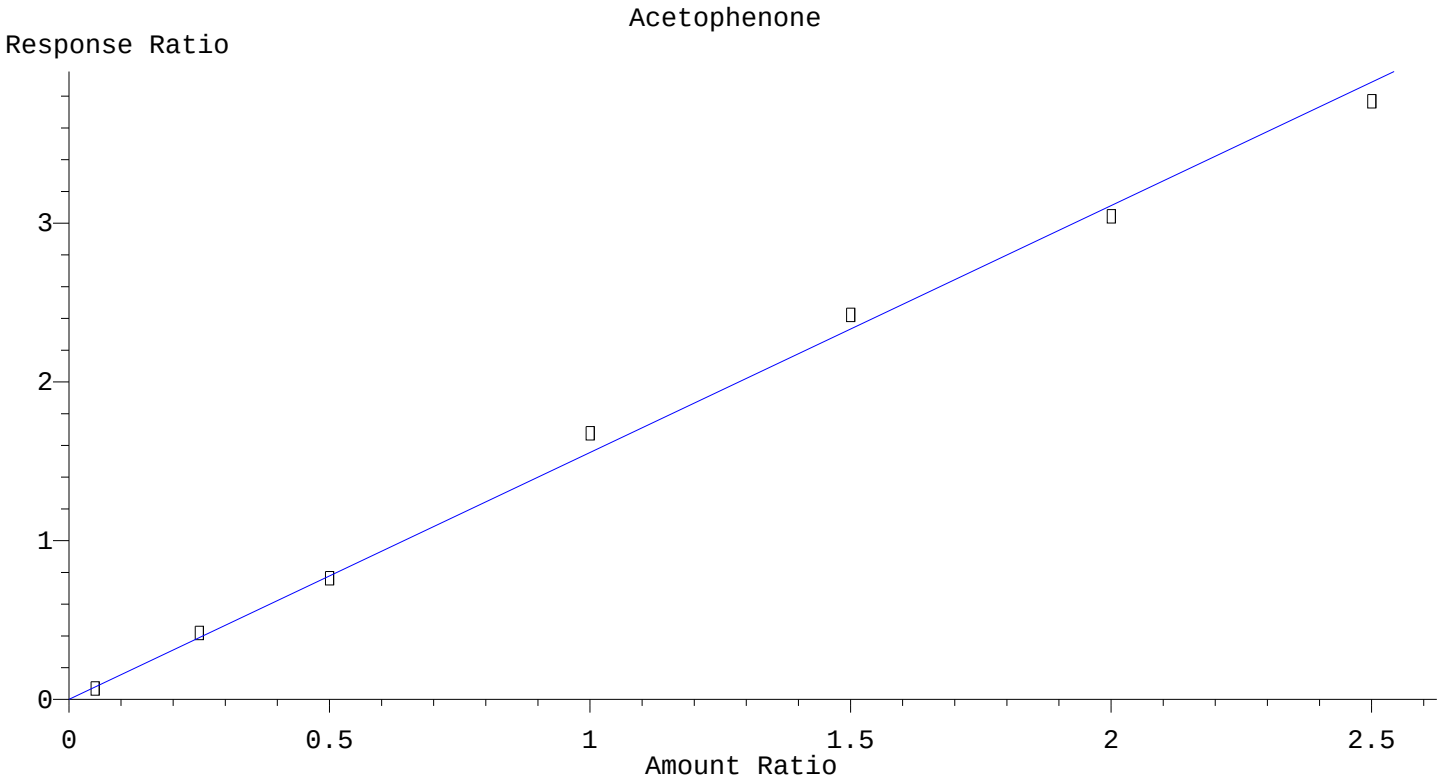
Resp Ratio = 2.04e+000 * Amt
RF Rel Std Dev = 7.5% Curve Fit: Avg RF



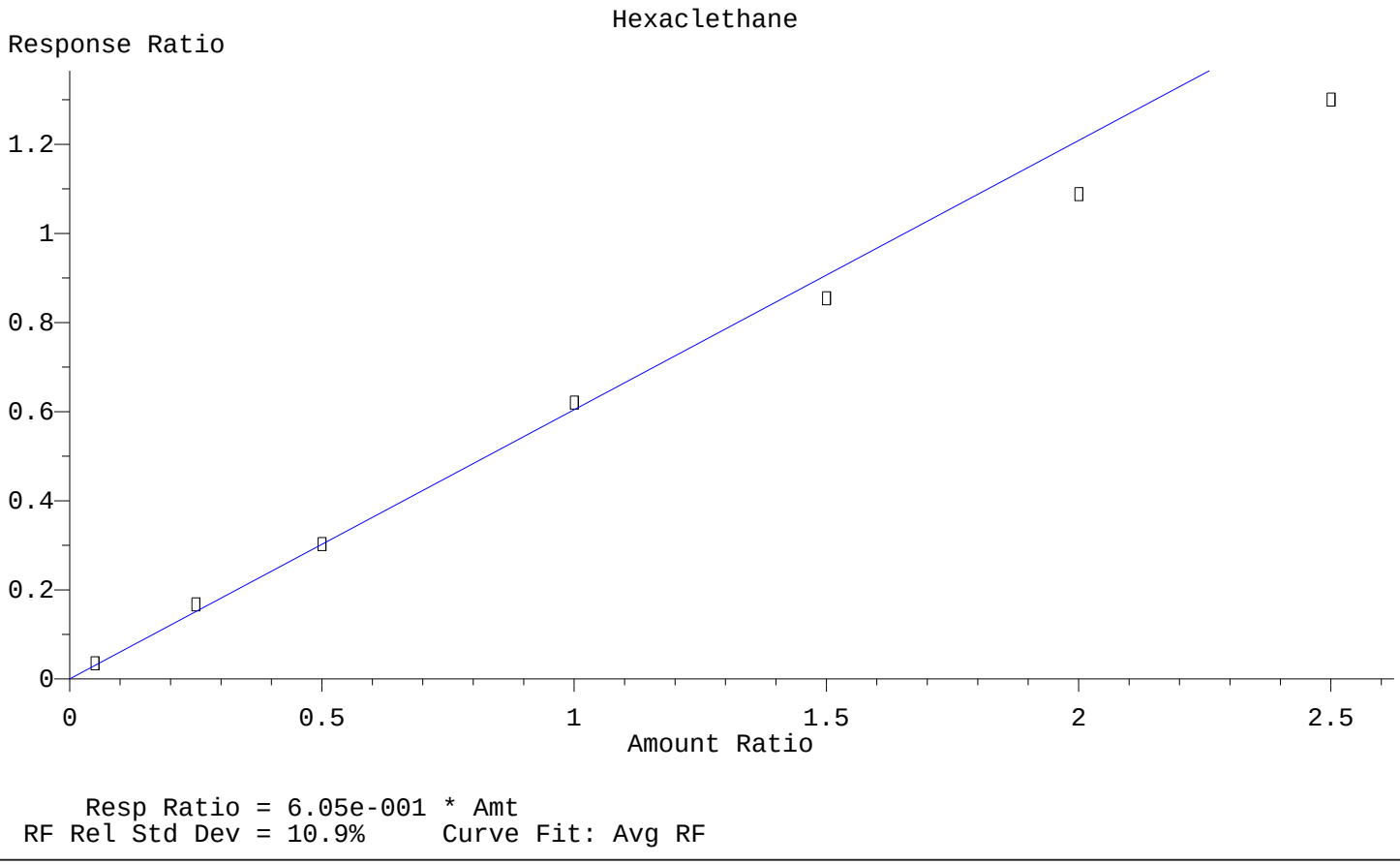
Resp Ratio = 9.68e-001 * Amt
RF Rel Std Dev = 8.0% Curve Fit: Avg RF



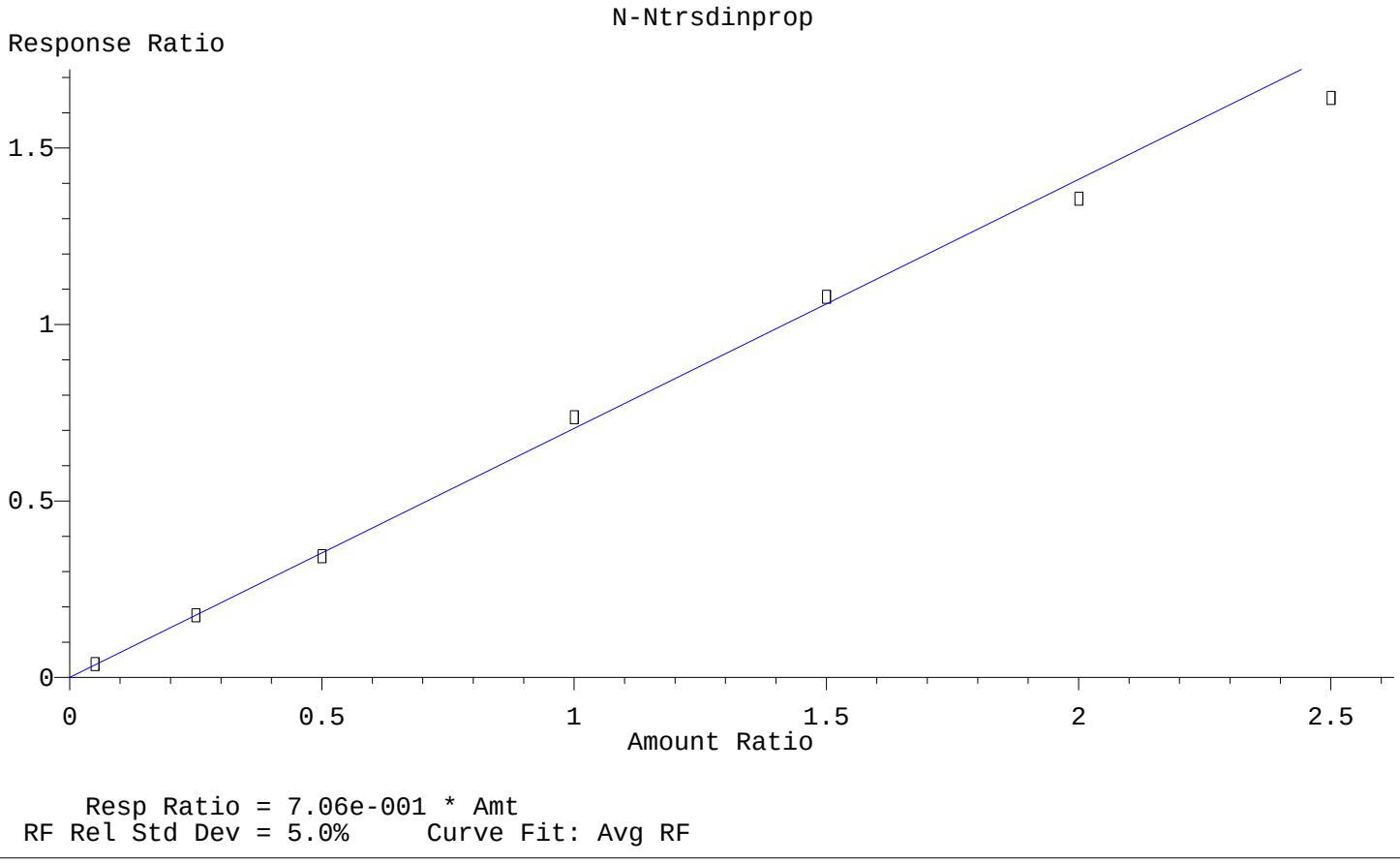
Resp Ratio = 5.21e-001 * Amt
RF Rel Std Dev = 6.8% Curve Fit: Avg RF



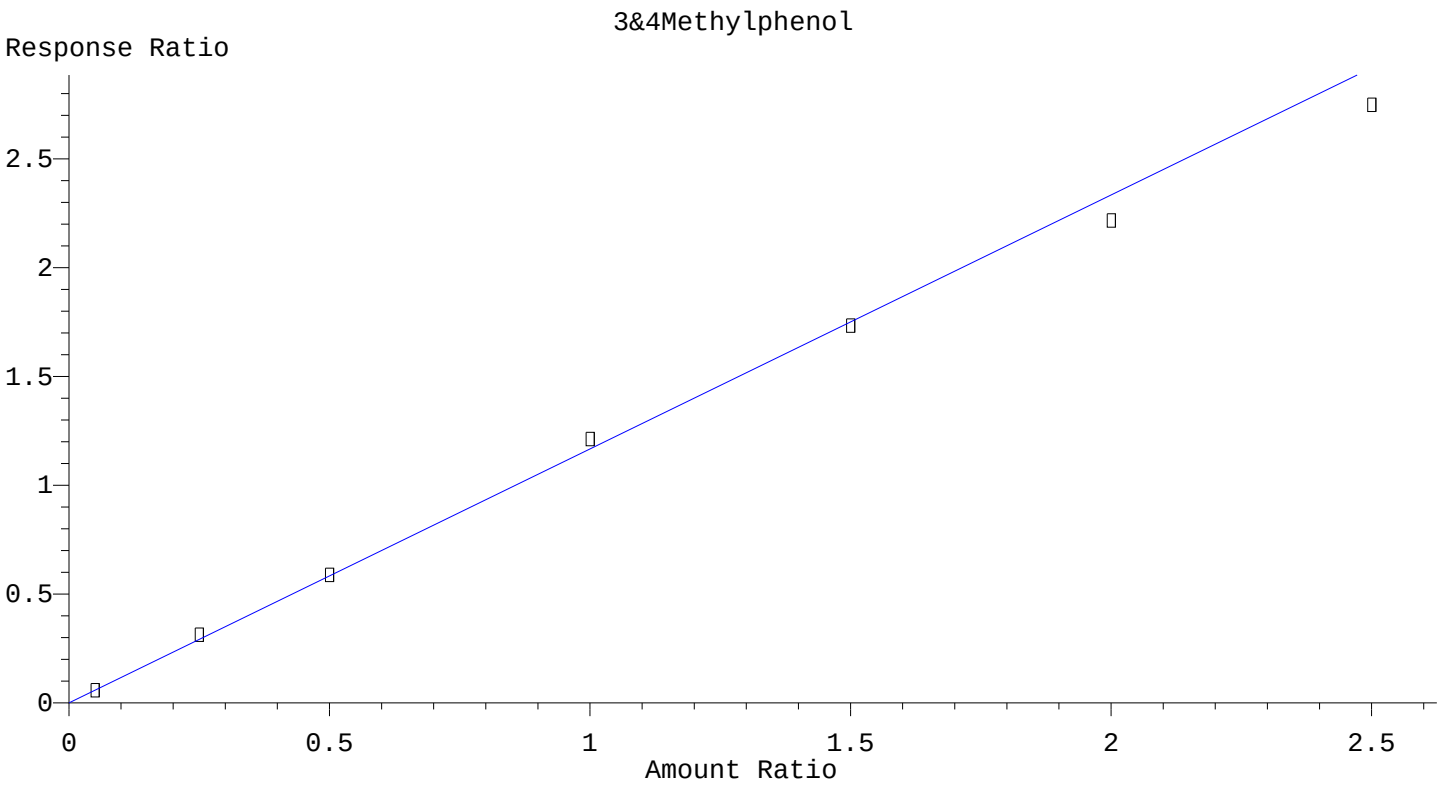
Resp Ratio = 1.56e+000 * Amt
RF Rel Std Dev = 6.9% Curve Fit: Avg RF



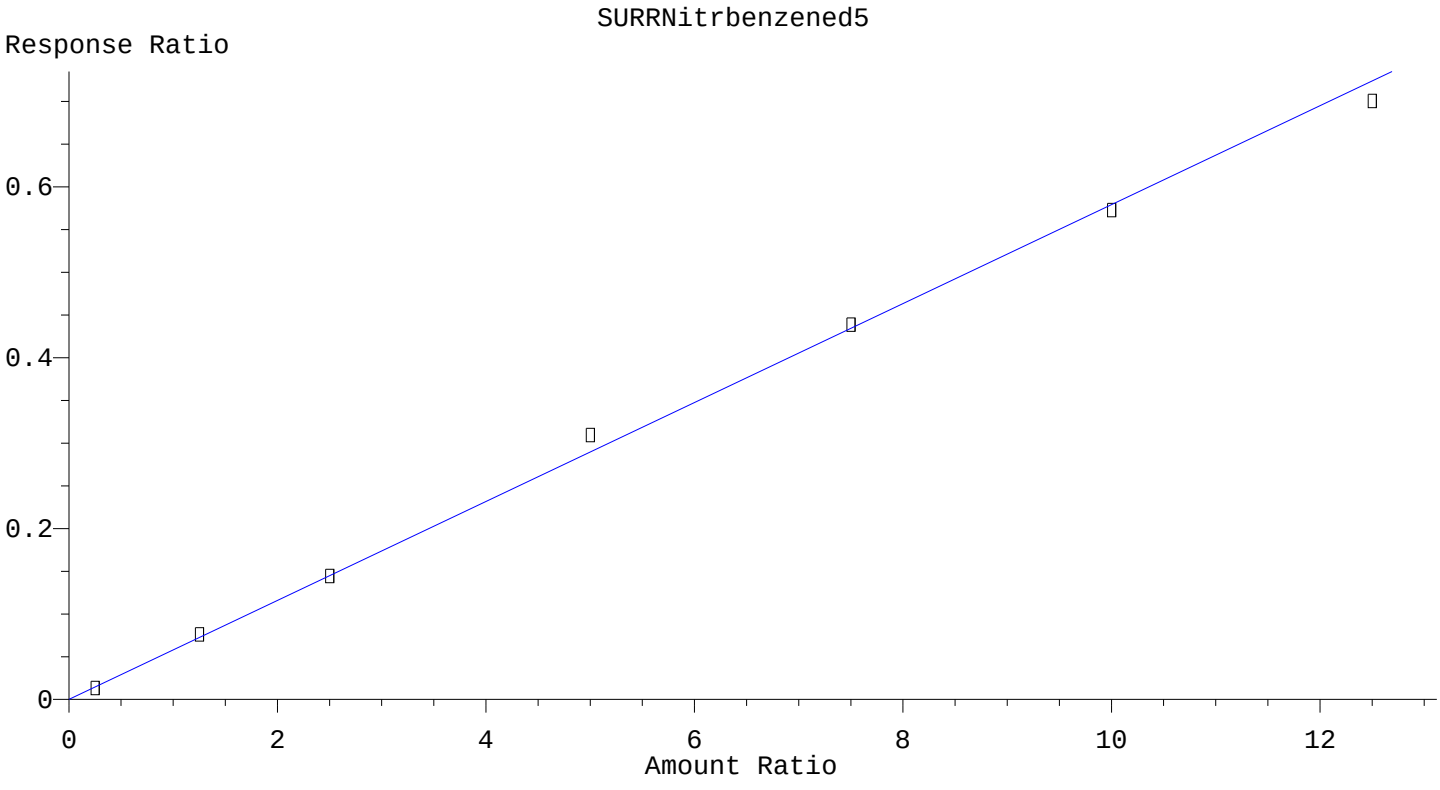
Resp Ratio = 6.05e-001 * Amt
RF Rel Std Dev = 10.9% Curve Fit: Avg RF



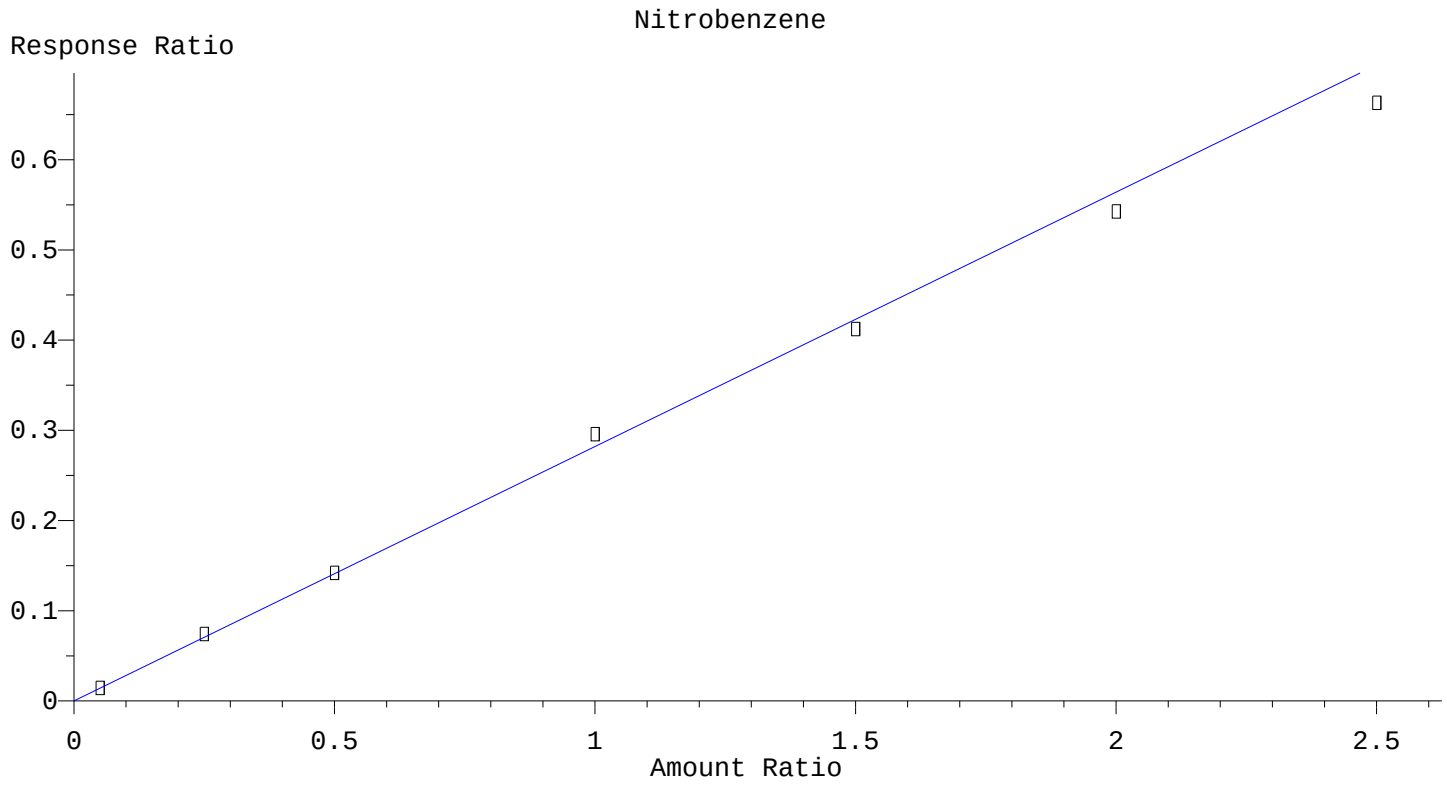
Resp Ratio = 7.06e-001 * Amt
RF Rel Std Dev = 5.0% Curve Fit: Avg RF



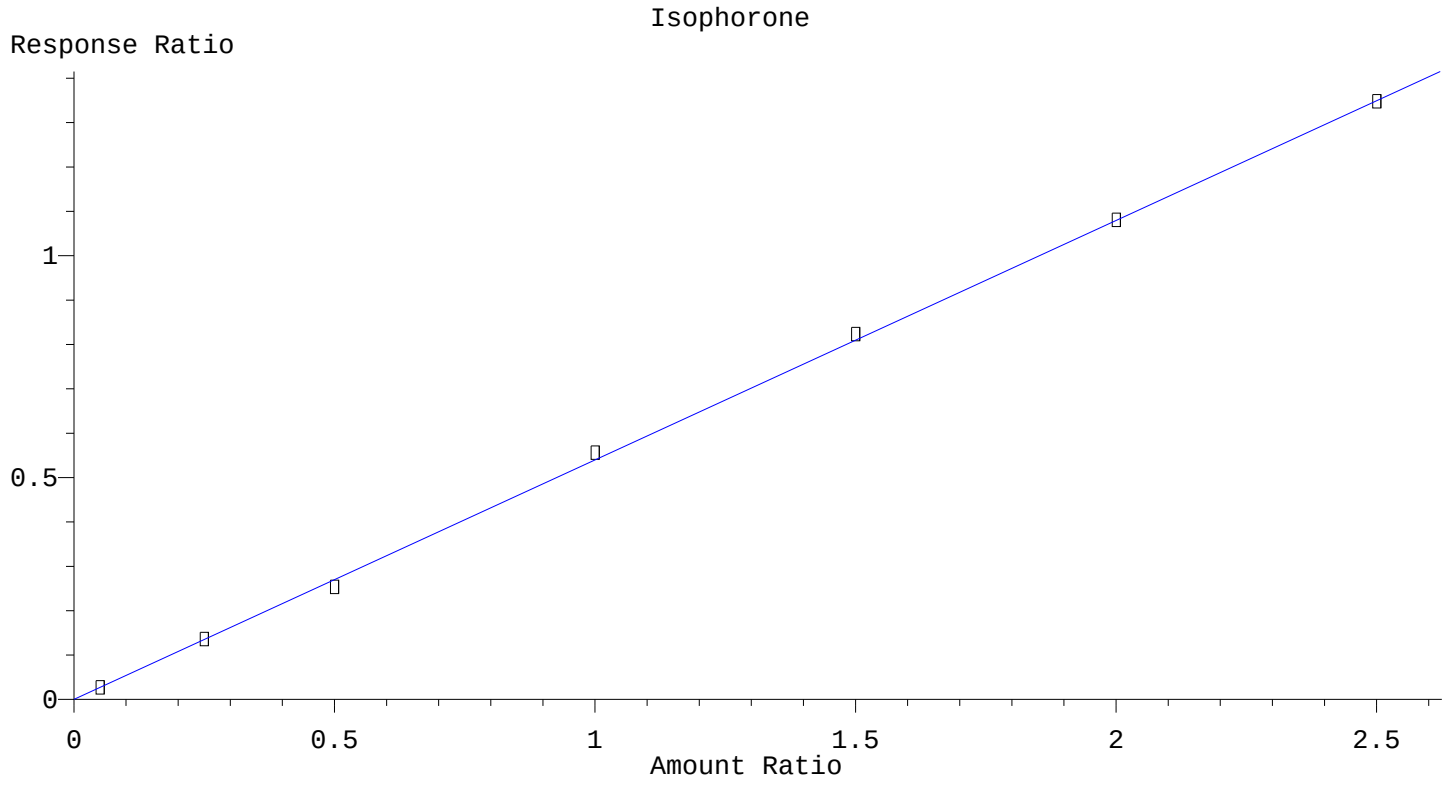
Resp Ratio = 1.17e+000 * Amt
RF Rel Std Dev = 4.6% Curve Fit: Avg RF



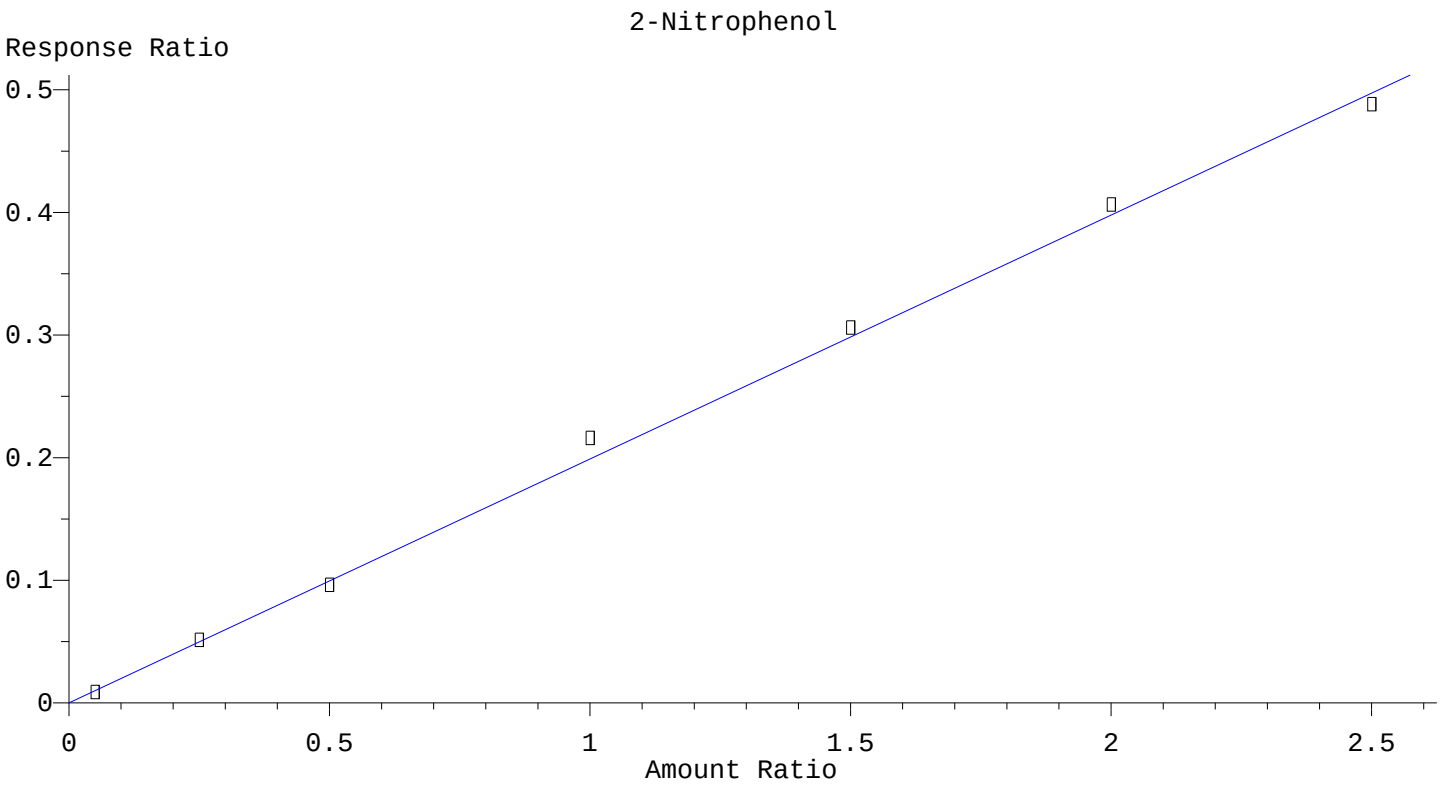
Resp Ratio = 5.80e-002 * Amt
RF Rel Std Dev = 4.9% Curve Fit: Avg RF



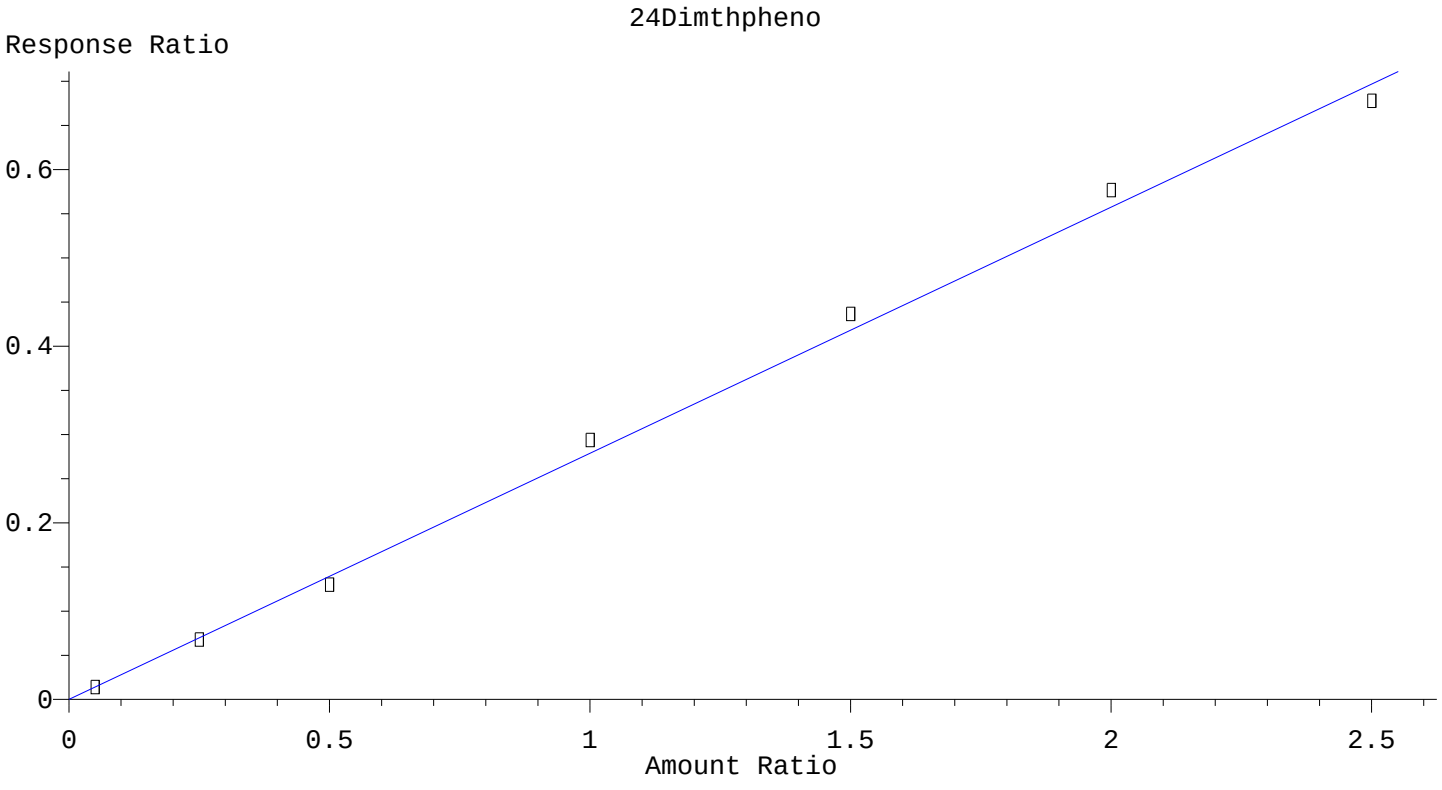
Resp Ratio = 2.82e-001 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF



Resp Ratio = 5.40e-001 * Amt
RF Rel Std Dev = 2.9% Curve Fit: Avg RF

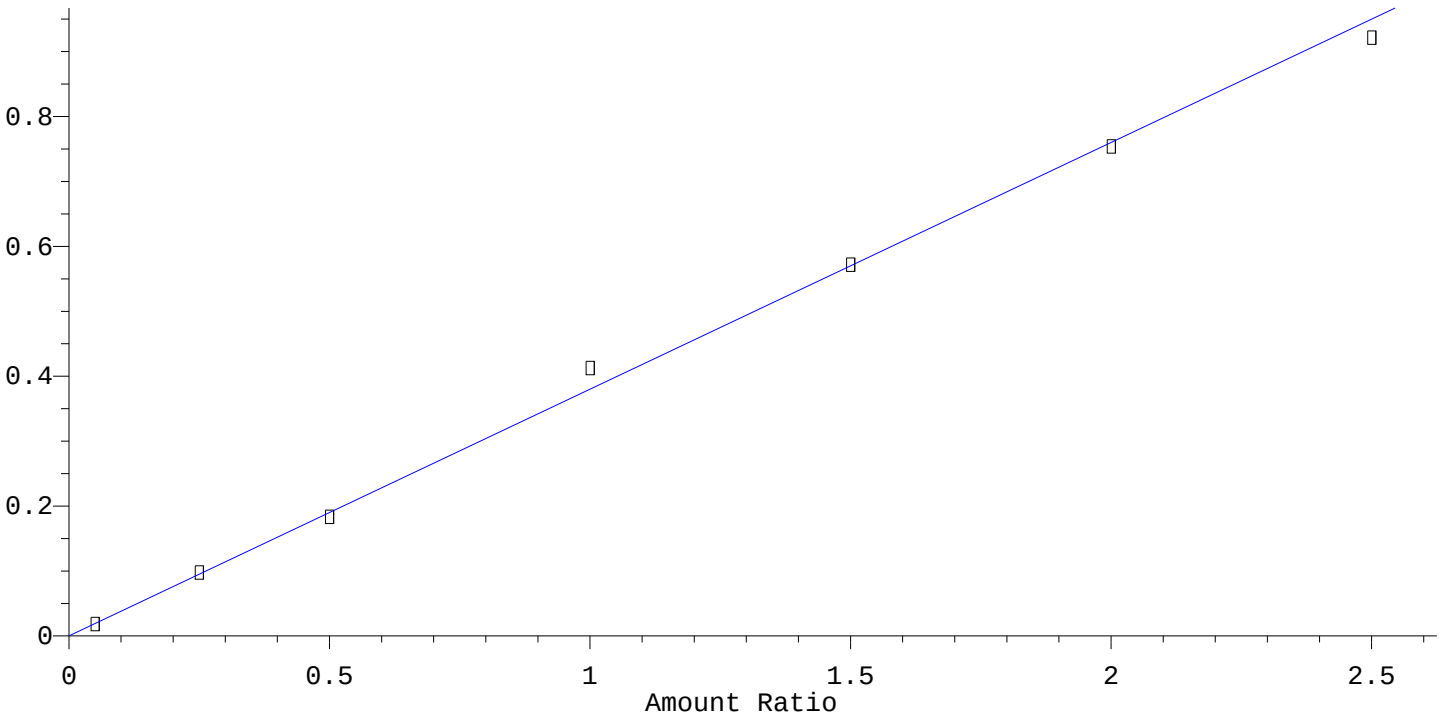


Resp Ratio = 1.99e-001 * Amt
RF Rel Std Dev = 6.2% Curve Fit: Avg RF



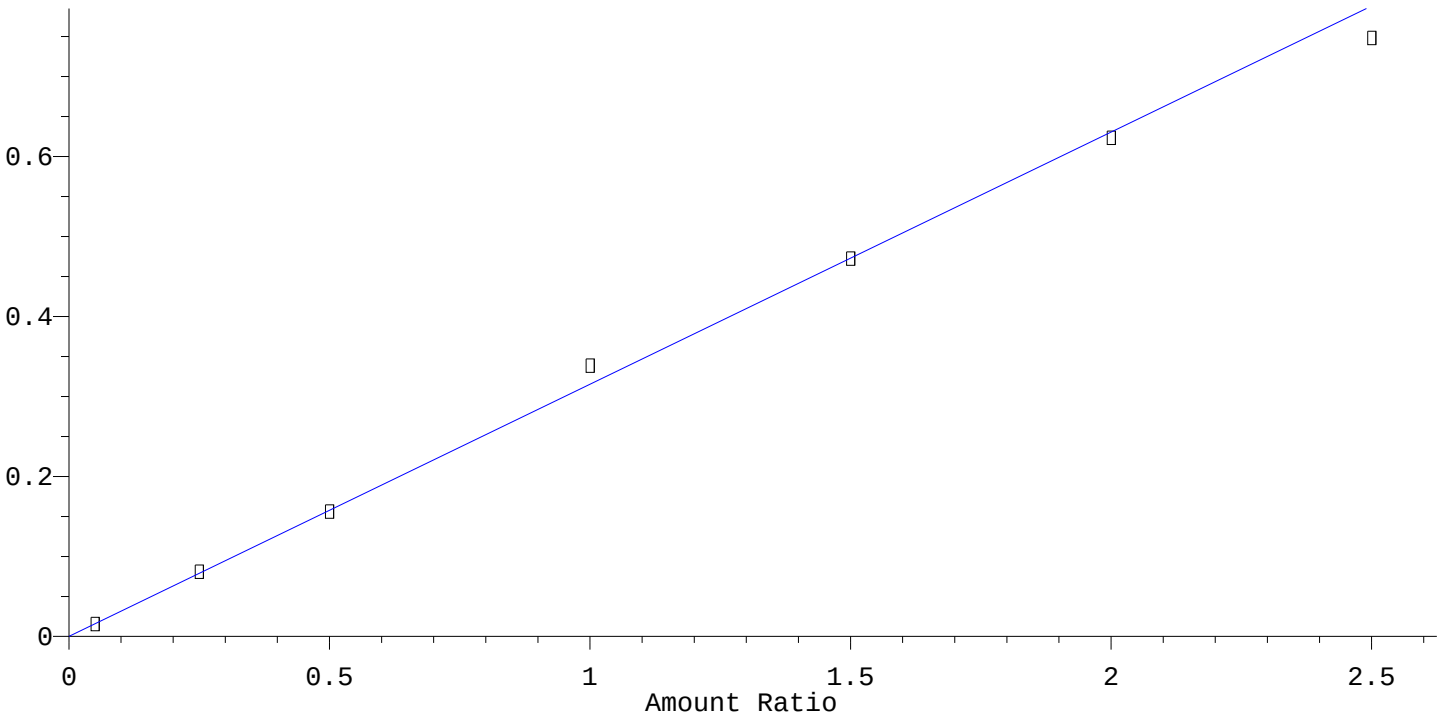
Resp Ratio = 2.79e-001 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF

bis2clethoxym

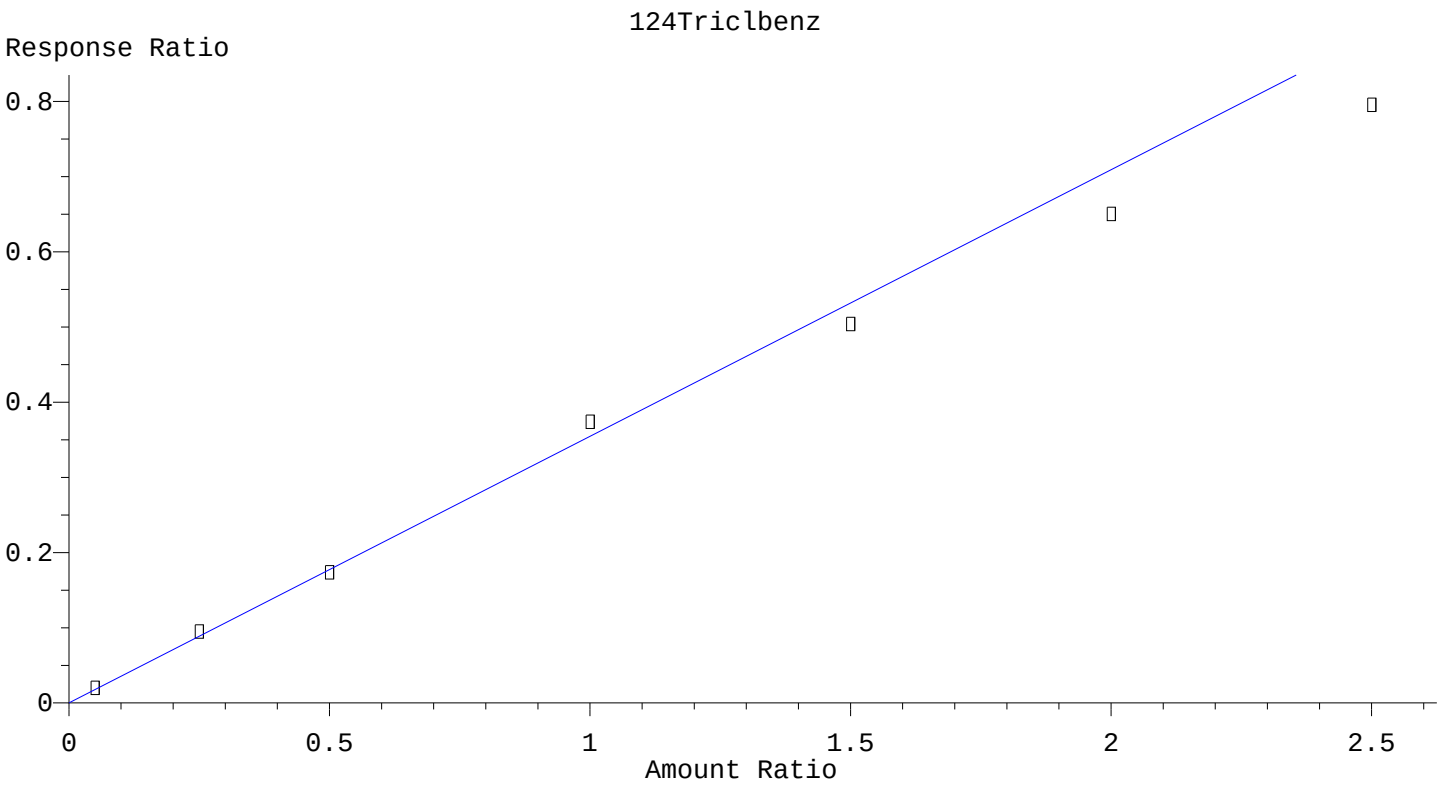


Resp Ratio = 3.80e-001 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF

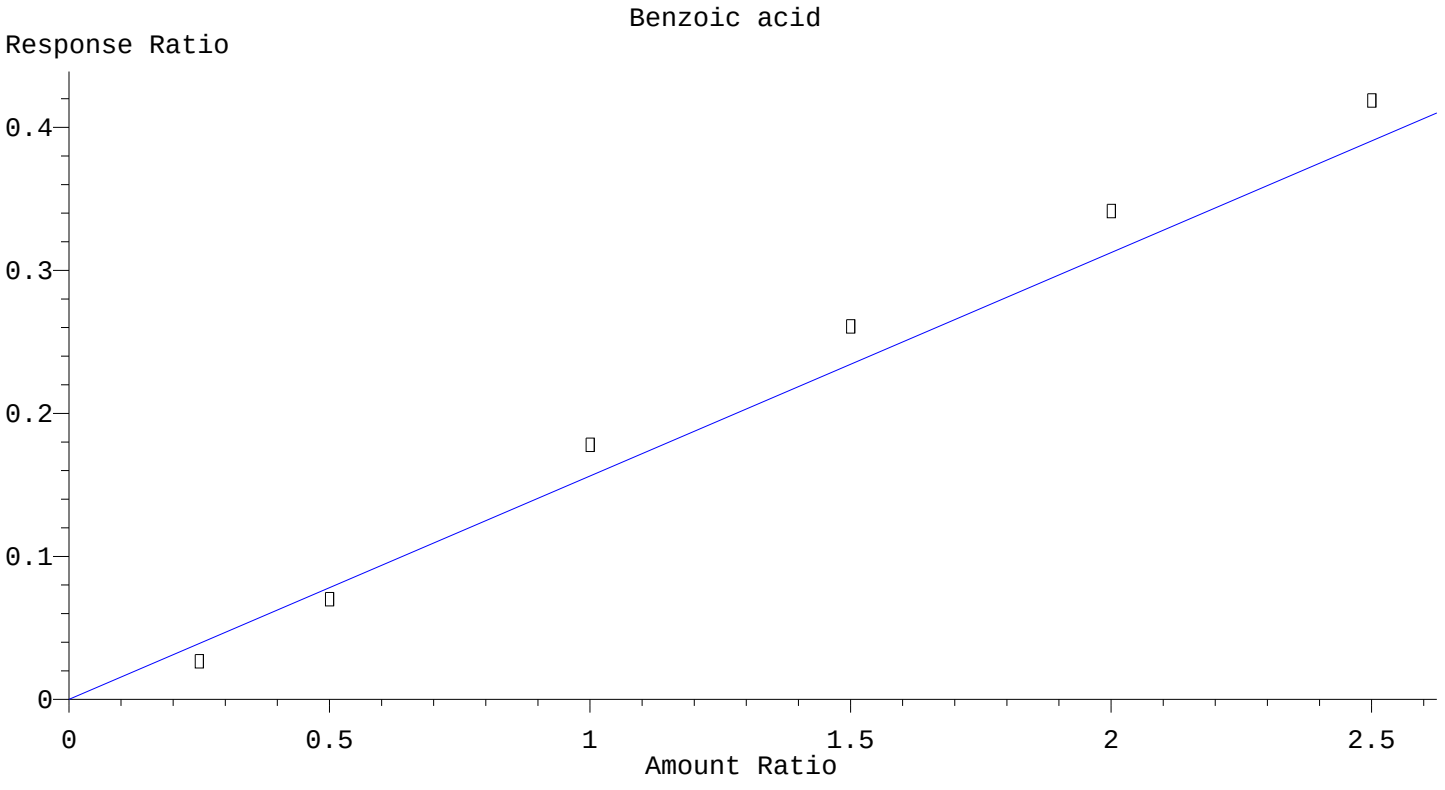
24Diclphenol



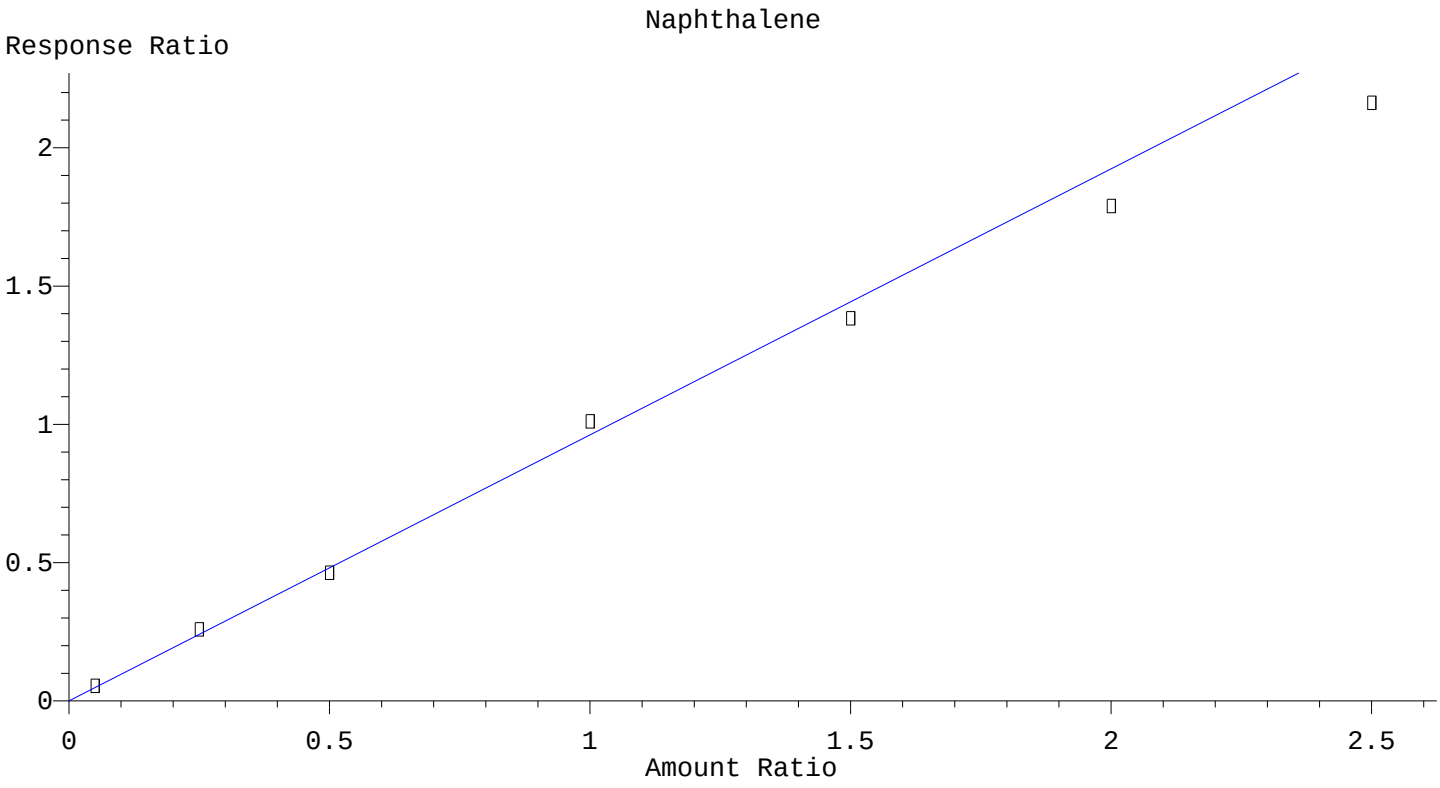
Resp Ratio = 3.16e-001 * Amt
RF Rel Std Dev = 4.0% Curve Fit: Avg RF



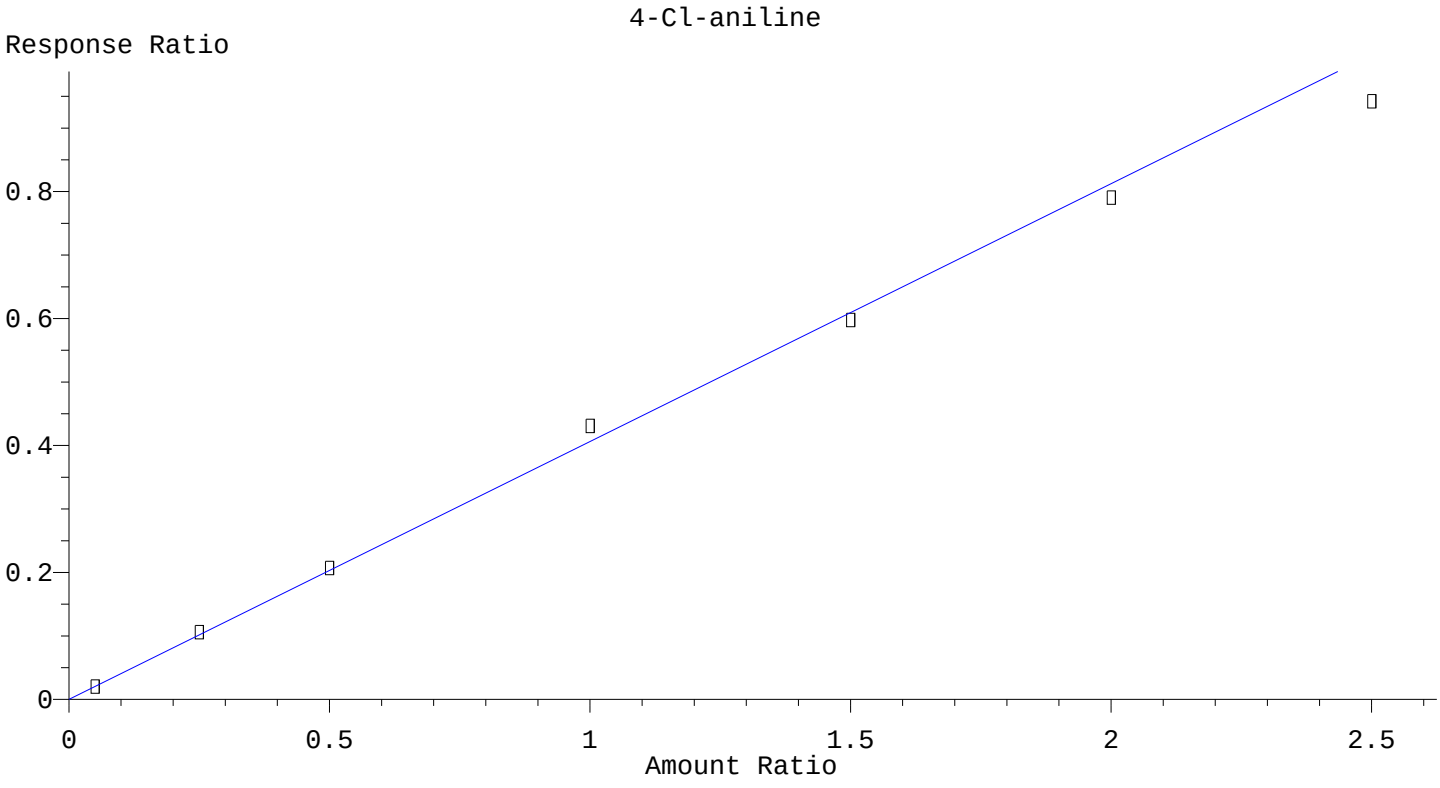
Resp Ratio = 3.55e-001 * Amt
RF Rel Std Dev = 8.8% Curve Fit: Avg RF



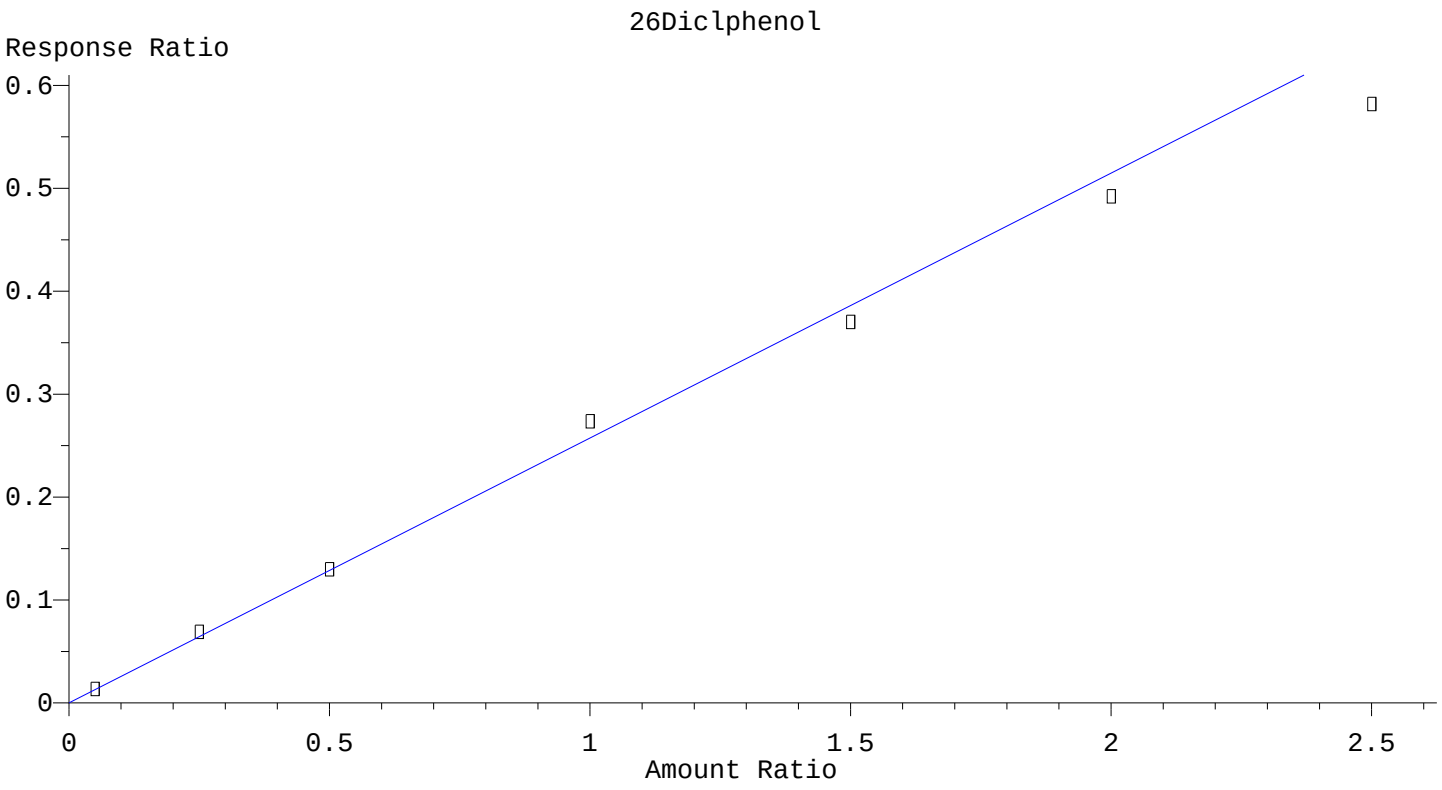
Resp Ratio = 1.56e-001 * Amt
RF Rel Std Dev = 17.7% Curve Fit: Avg RF



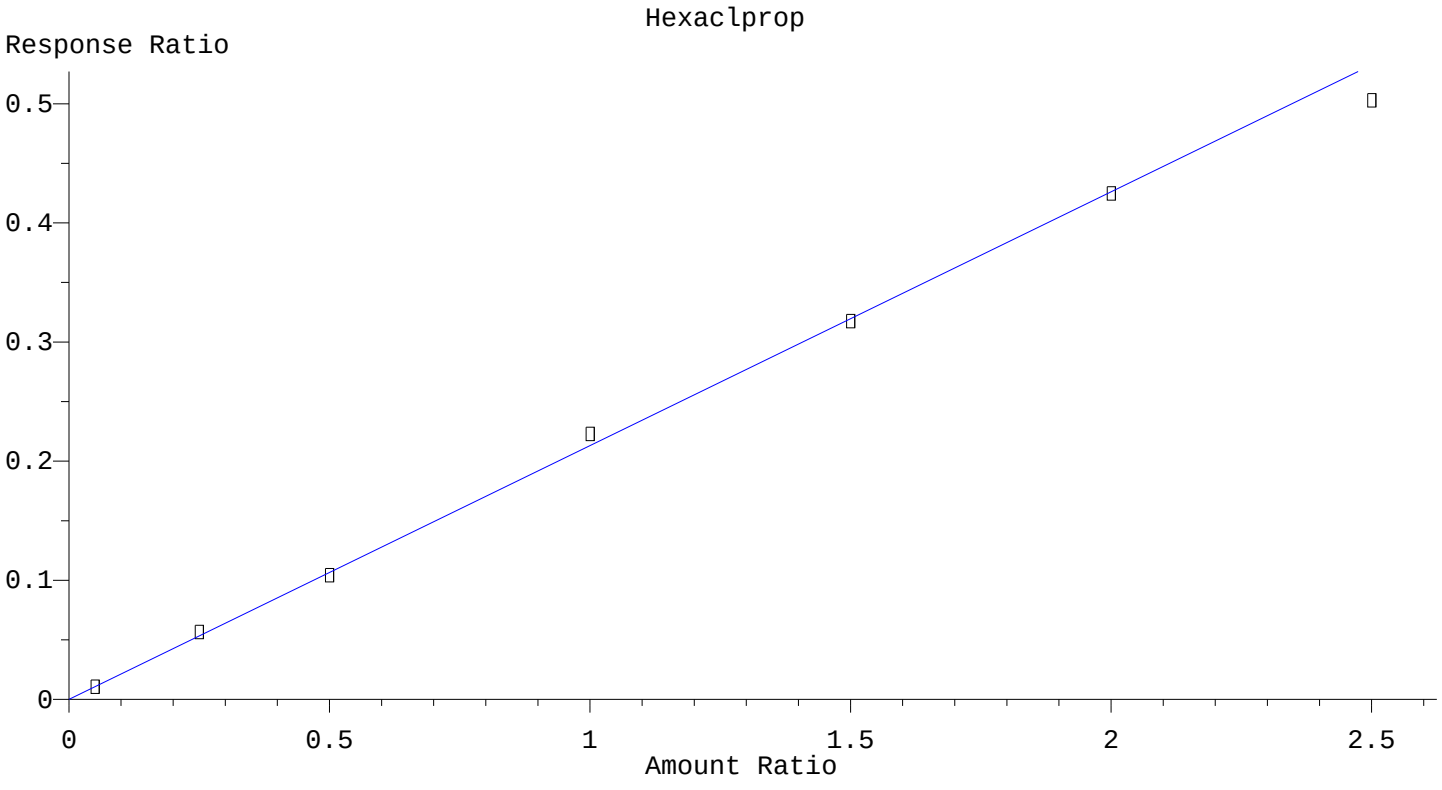
Resp Ratio = 9.62e-001 * Amt
RF Rel Std Dev = 8.4% Curve Fit: Avg RF



Resp Ratio = 4.06e-001 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF

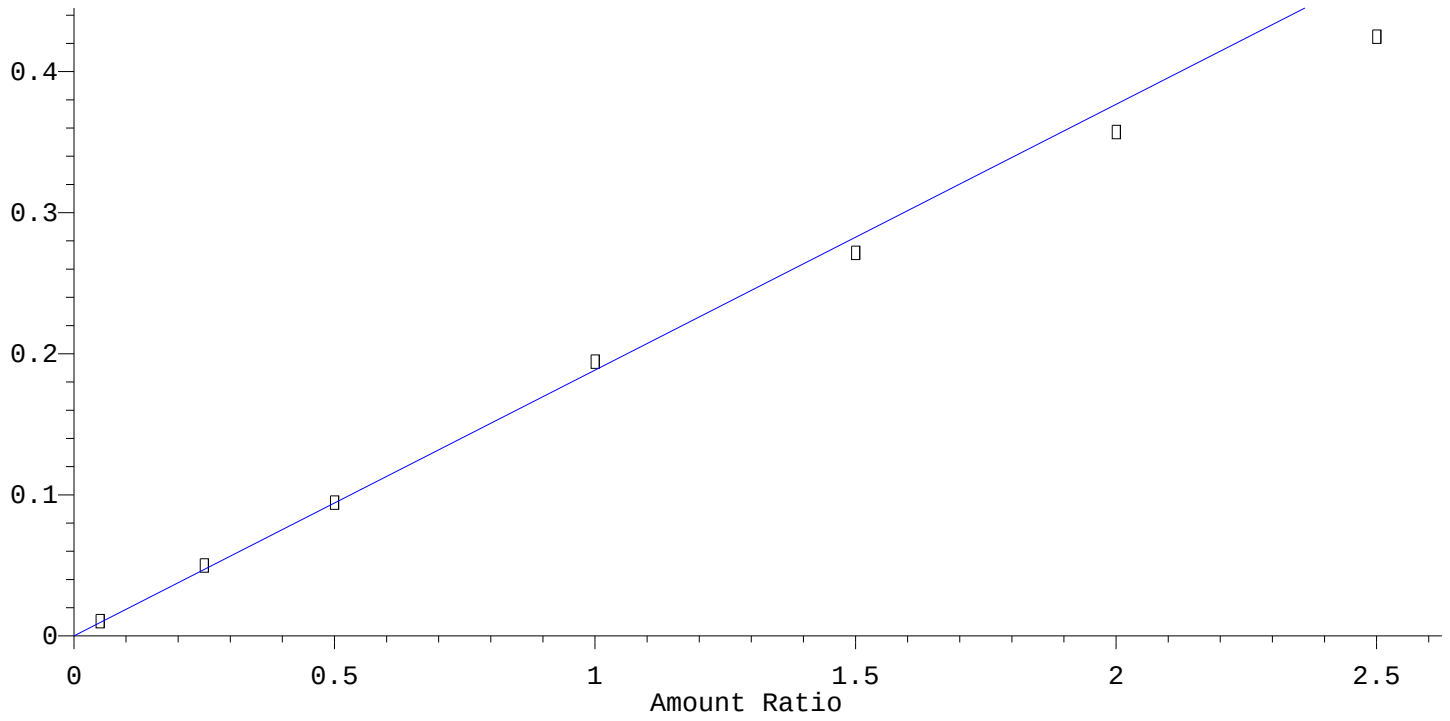


Resp Ratio = 2.58e-001 * Amt
RF Rel Std Dev = 6.4% Curve Fit: Avg RF



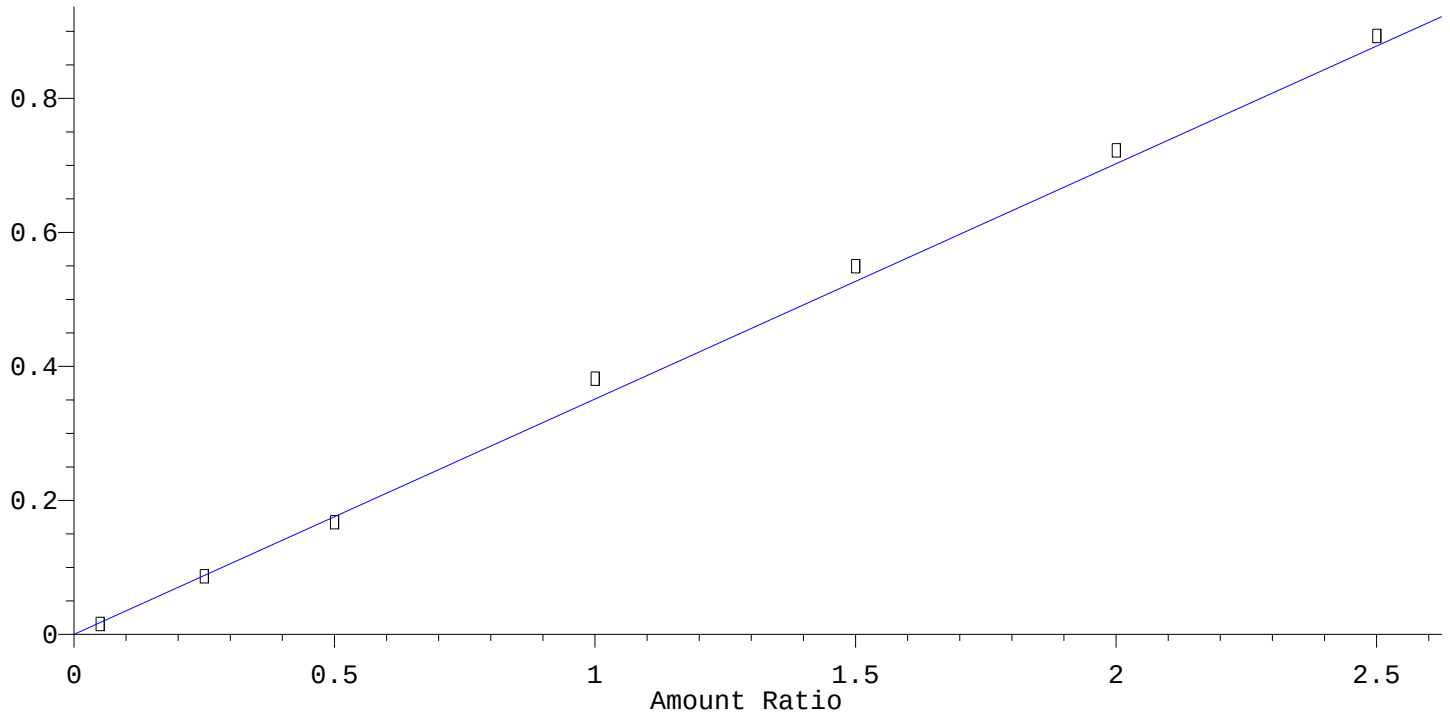
Resp Ratio = 2.13e-001 * Amt
RF Rel Std Dev = 4.0% Curve Fit: Avg RF

Hexaclbutdien

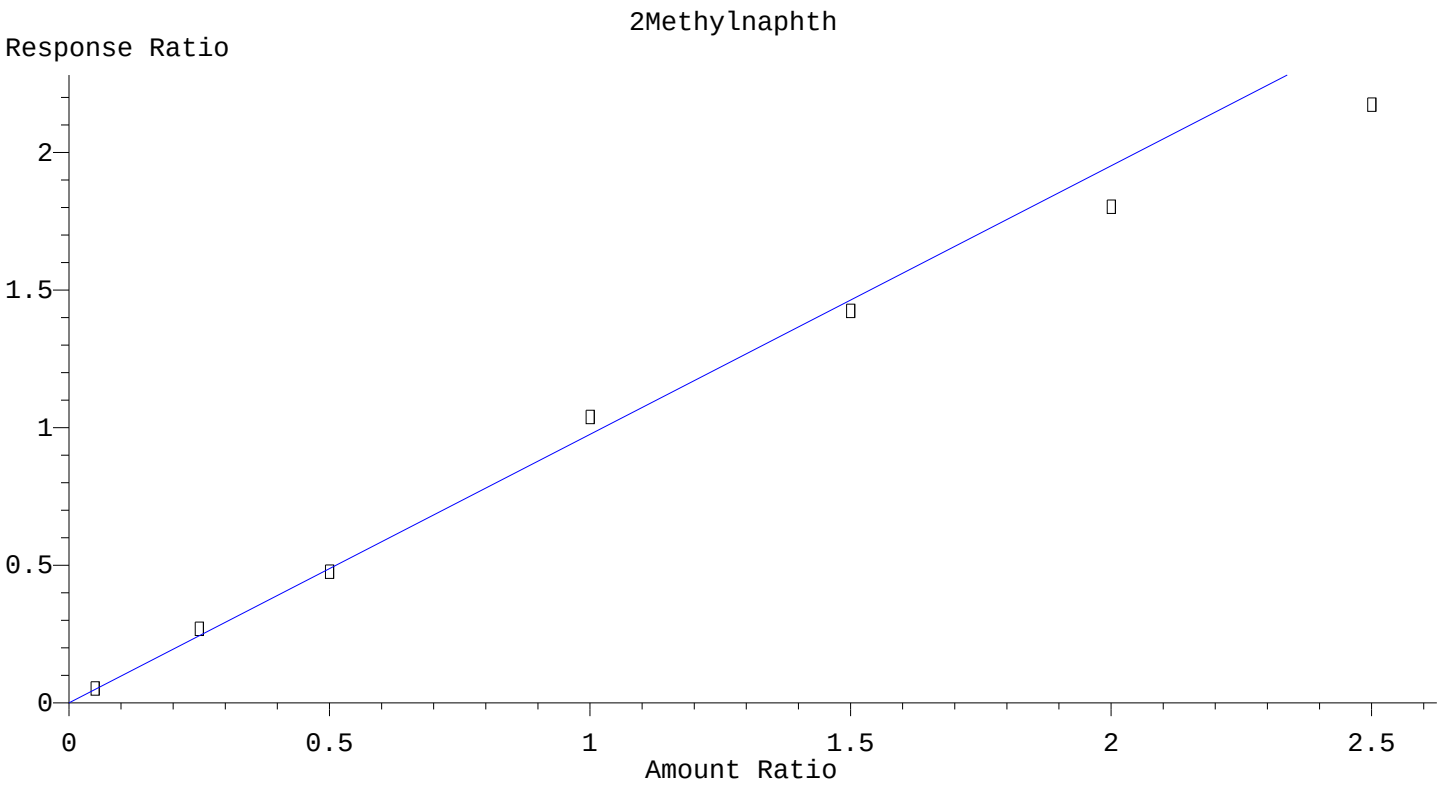


Resp Ratio = 1.89e-001 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF

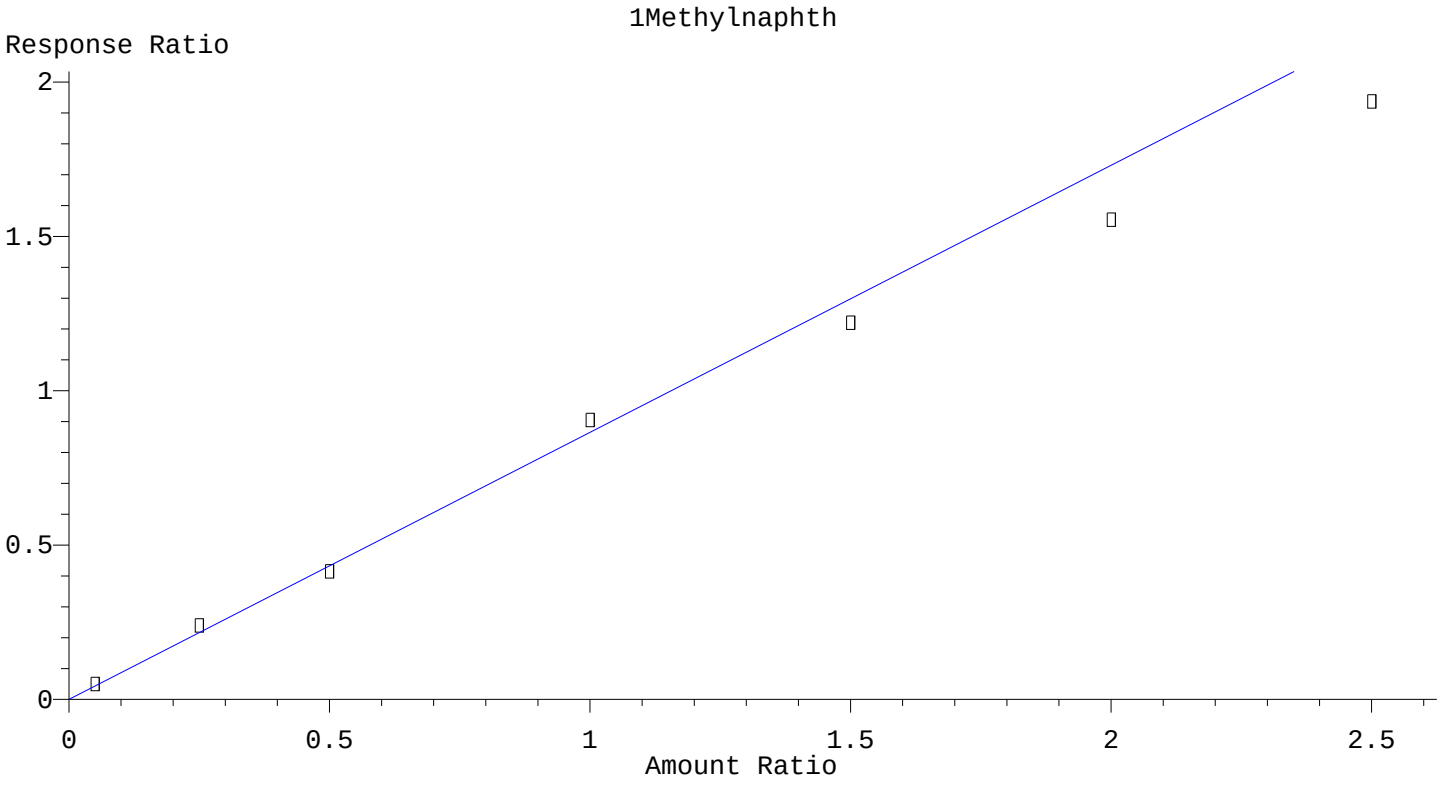
4Cl3methylphe



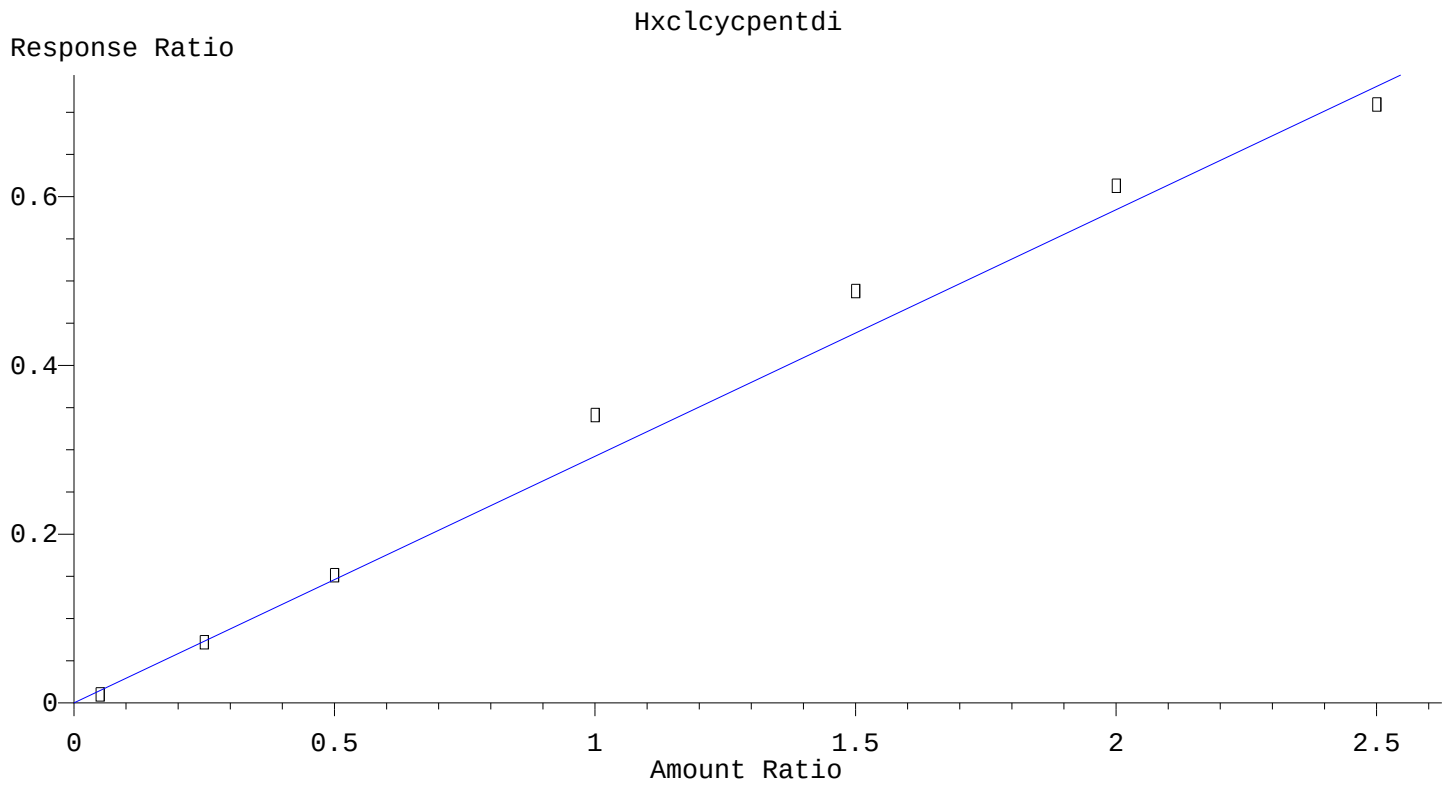
Resp Ratio = 3.51e-001 * Amt
RF Rel Std Dev = 6.6% Curve Fit: Avg RF



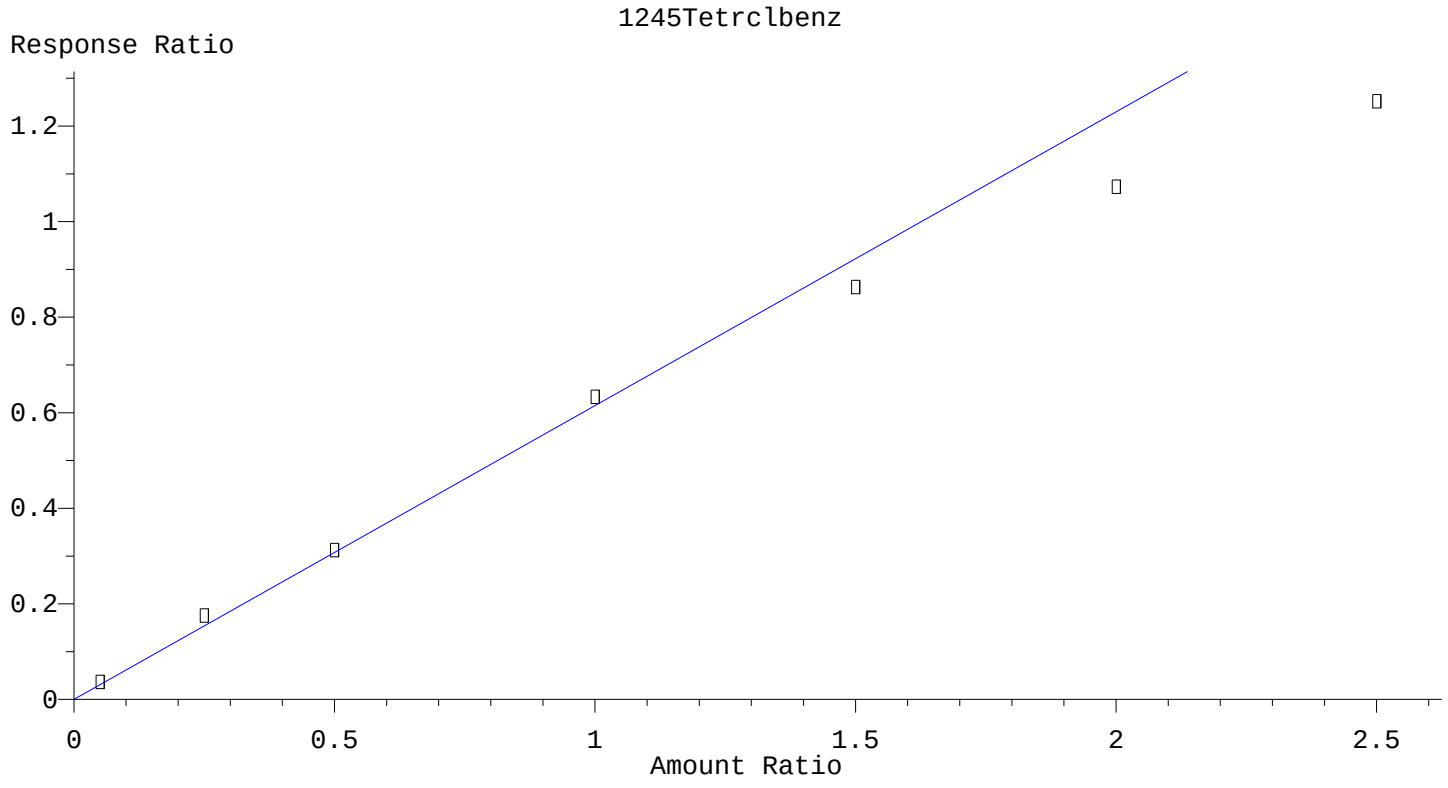
Resp Ratio = 9.76e-001 * Amt
RF Rel Std Dev = 8.0% Curve Fit: Avg RF



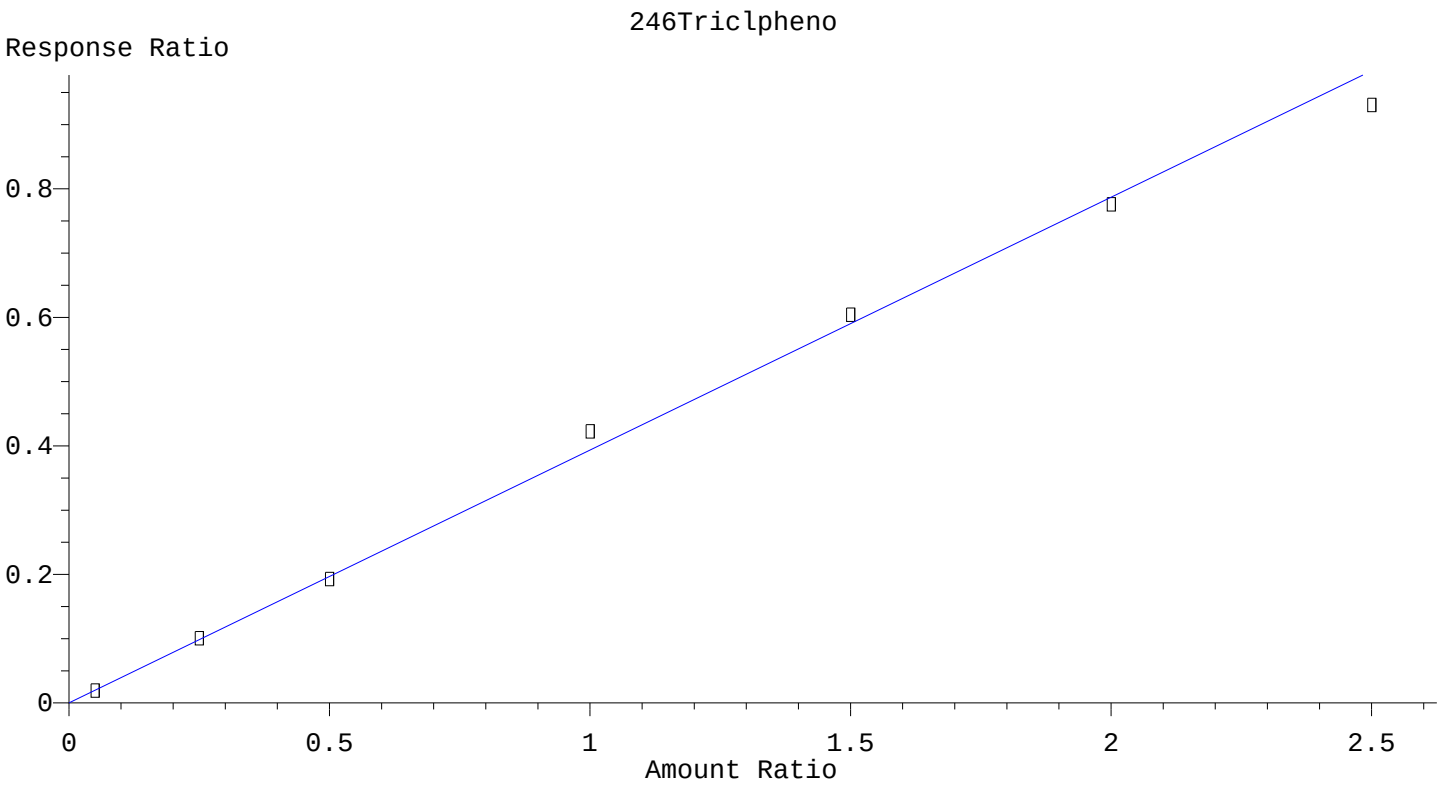
Resp Ratio = 8.65e-001 * Amt
RF Rel Std Dev = 10.3% Curve Fit: Avg RF



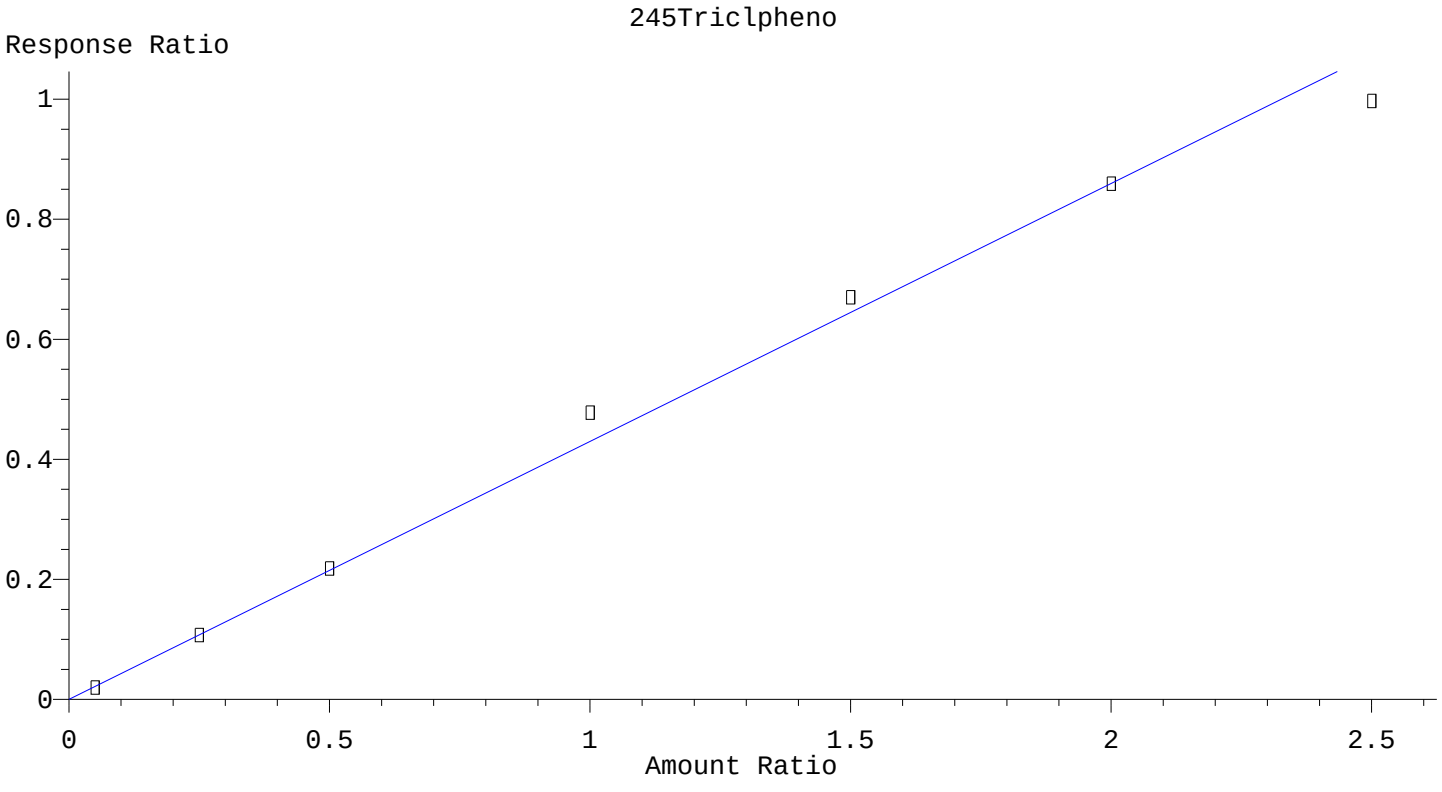
Resp Ratio = 2.92e-001 * Amt
RF Rel Std Dev = 15.5% Curve Fit: Avg RF



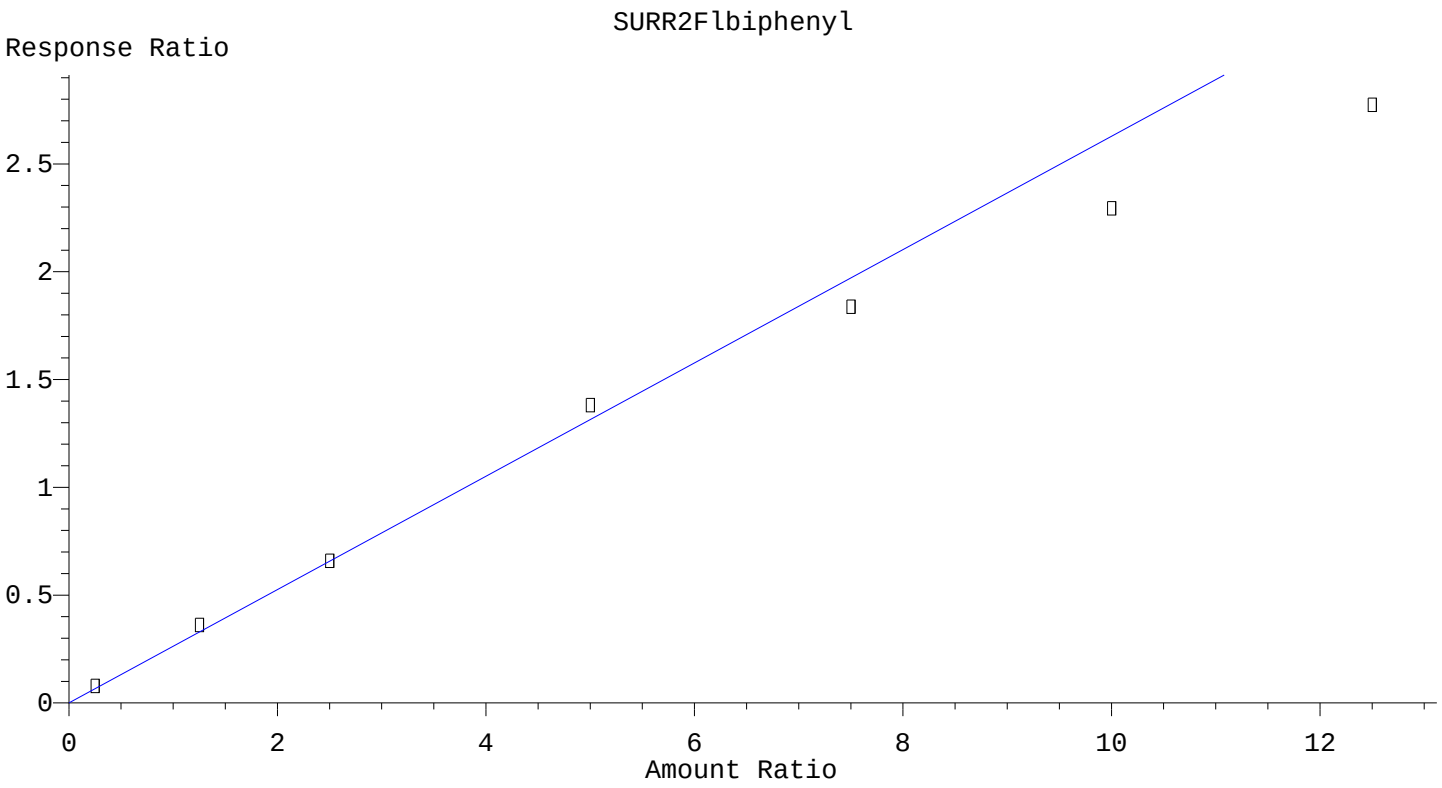
Resp Ratio = 6.15e-001 * Amt
RF Rel Std Dev = 13.7% Curve Fit: Avg RF



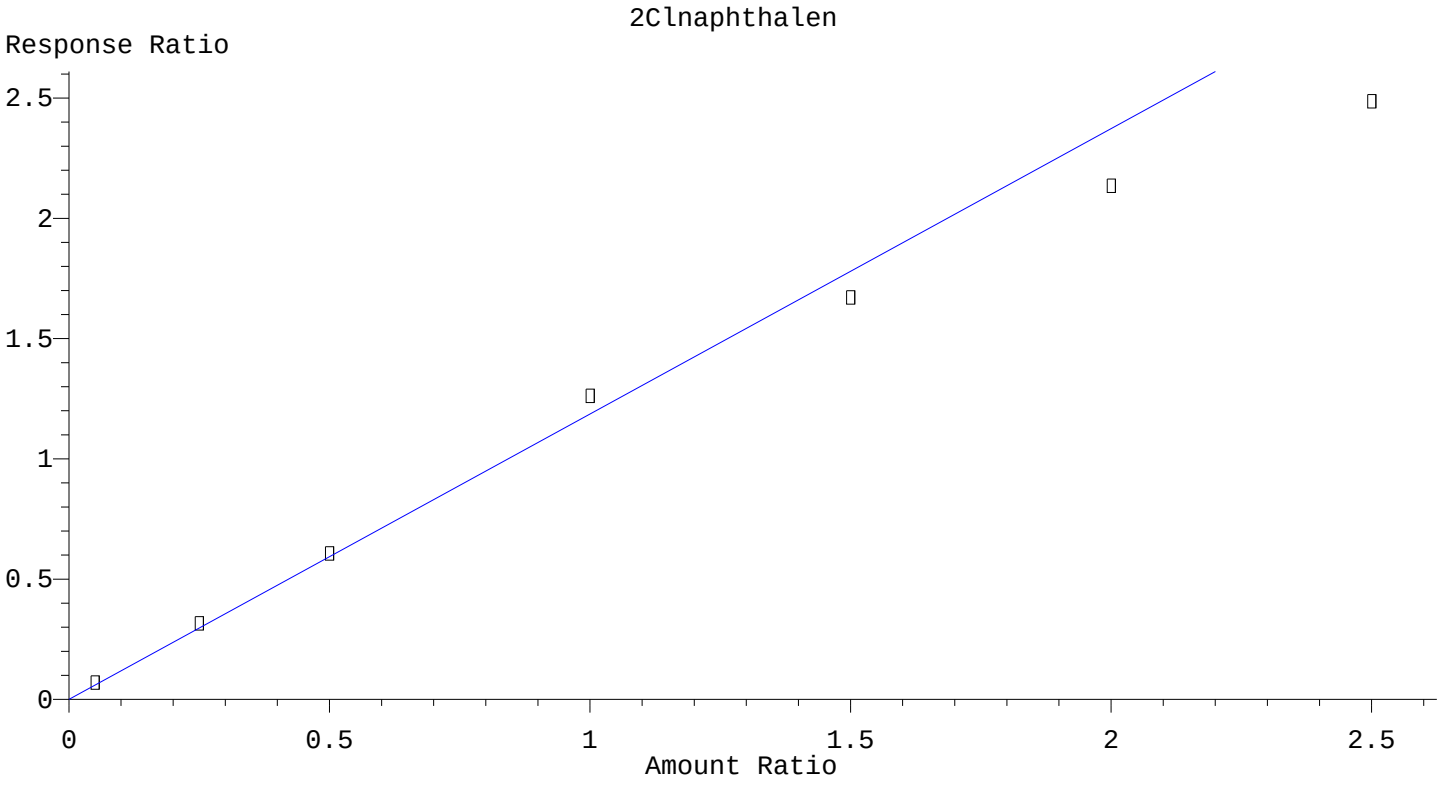
Resp Ratio = 3.93e-001 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF



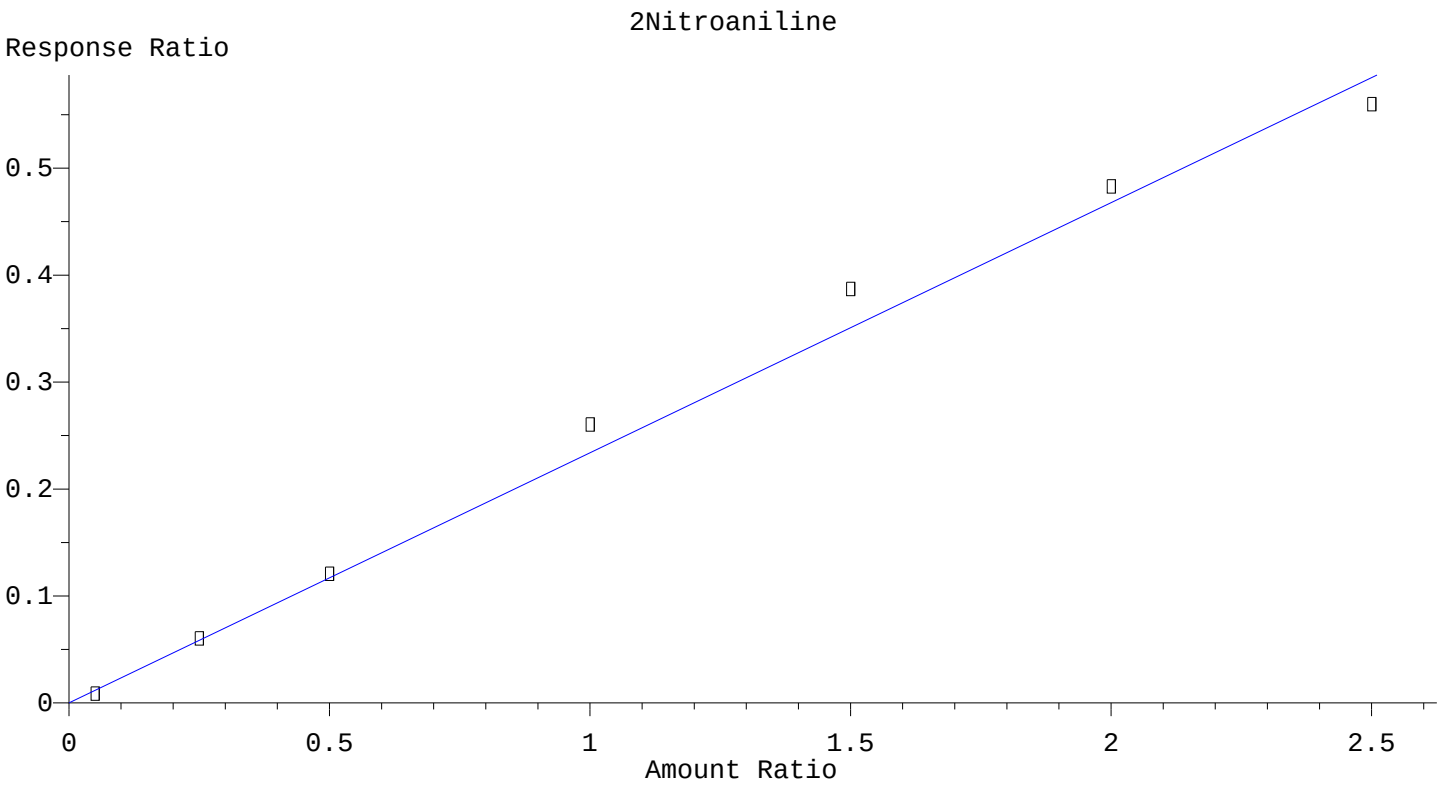
Resp Ratio = 4.30e-001 * Amt
RF Rel Std Dev = 6.6% Curve Fit: Avg RF



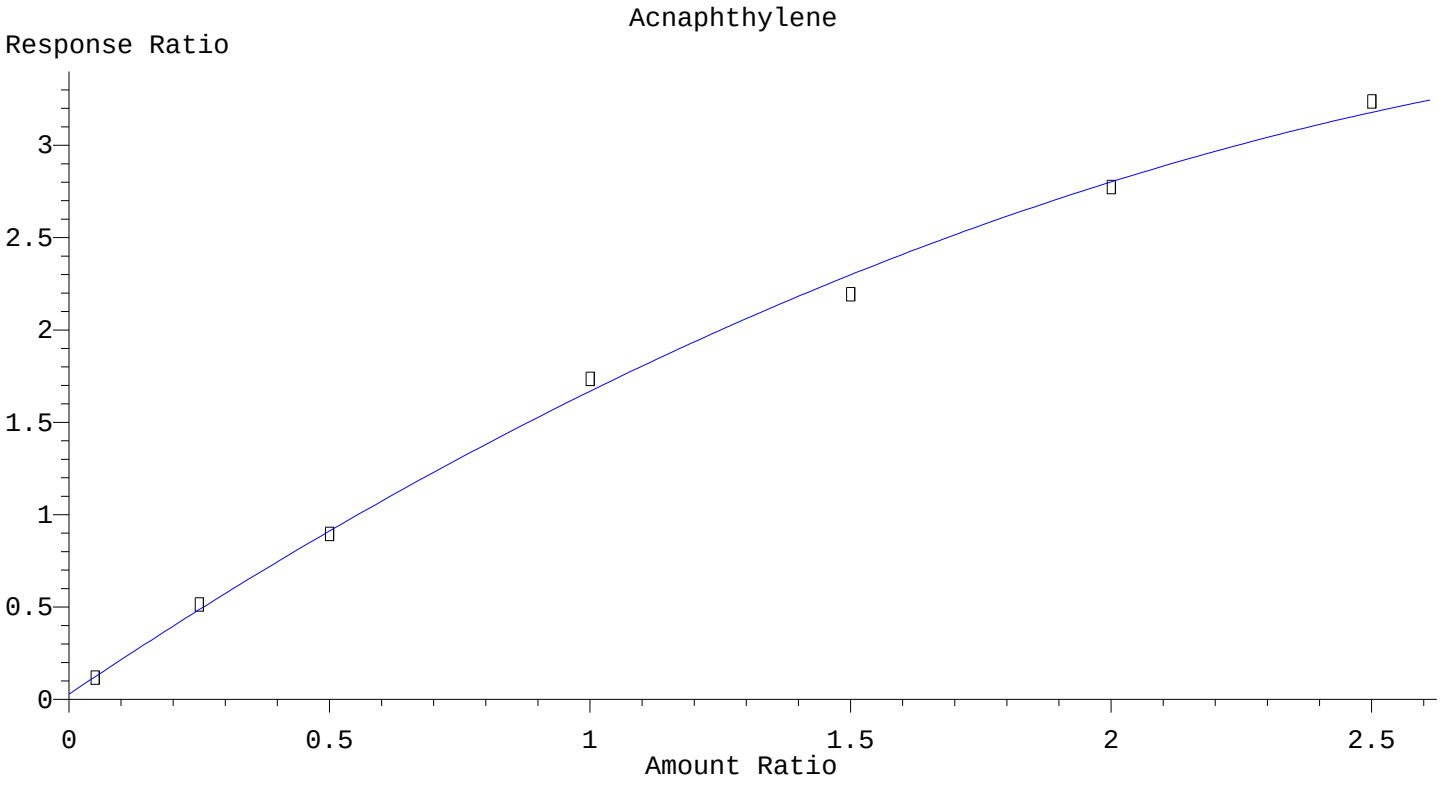
Resp Ratio = 2.63e-001 * Amt
RF Rel Std Dev = 12.7% Curve Fit: Avg RF



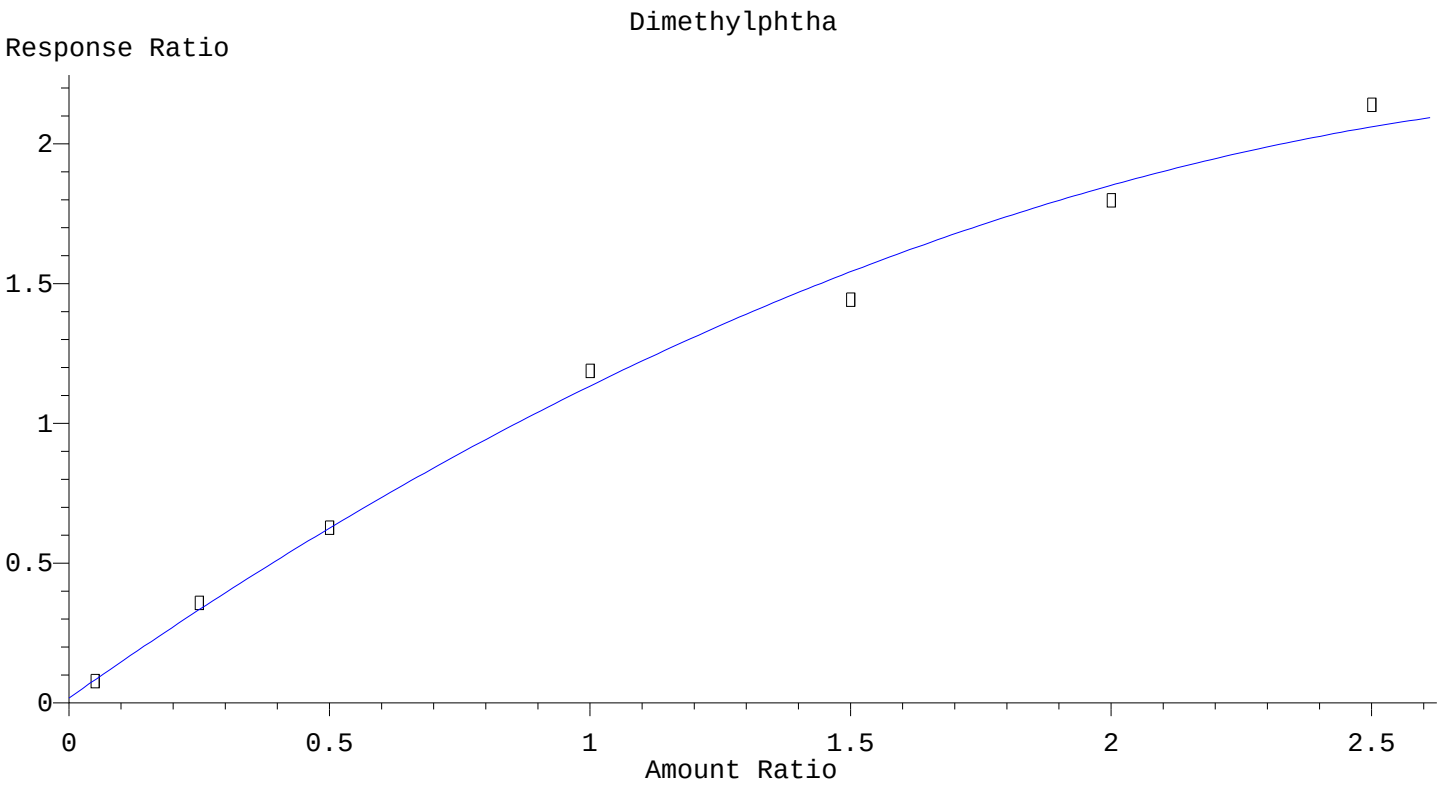
Resp Ratio = 1.19e+000 * Amt
RF Rel Std Dev = 11.5% Curve Fit: Avg RF



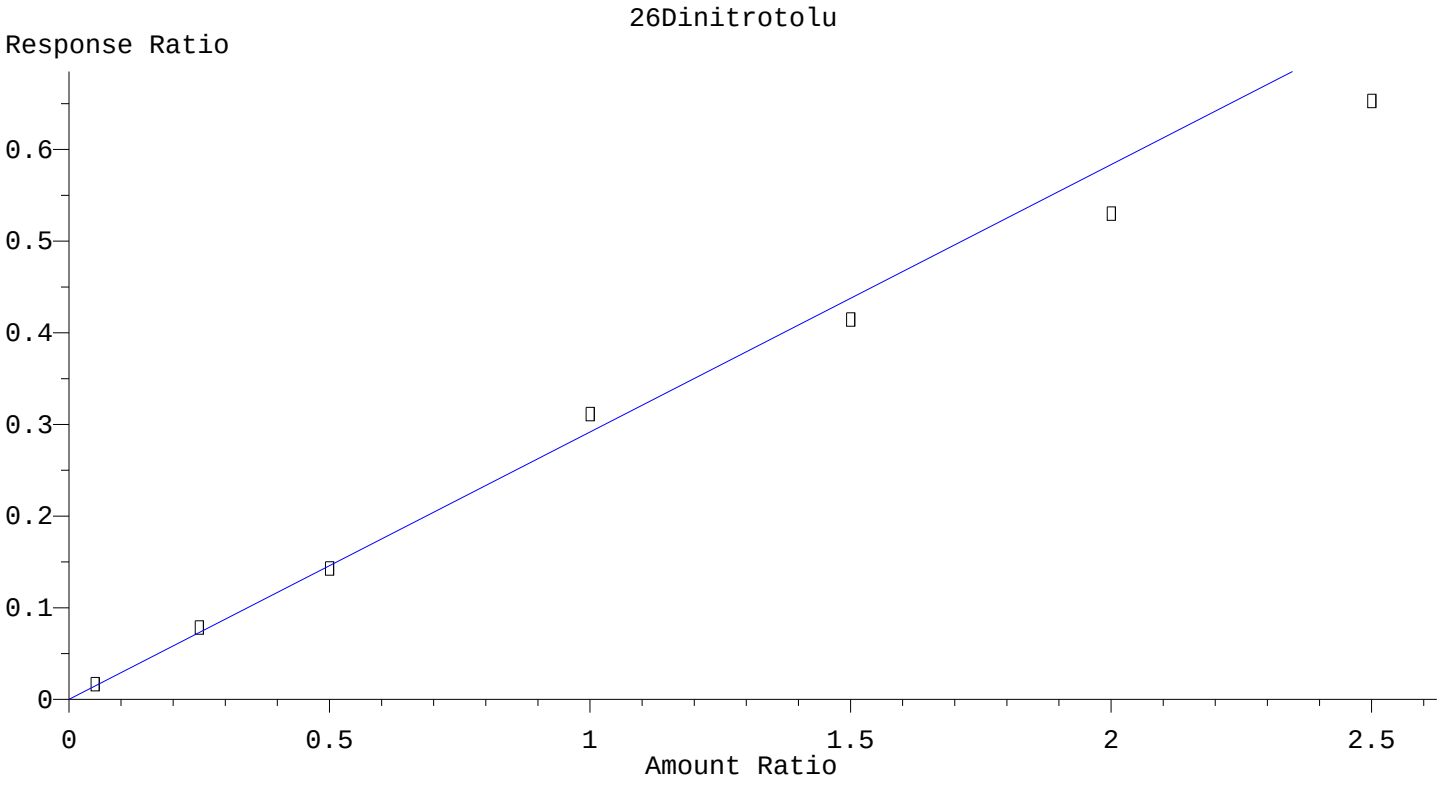
Resp Ratio = 2.34e-001 * Amt
RF Rel Std Dev = 12.6% Curve Fit: Avg RF



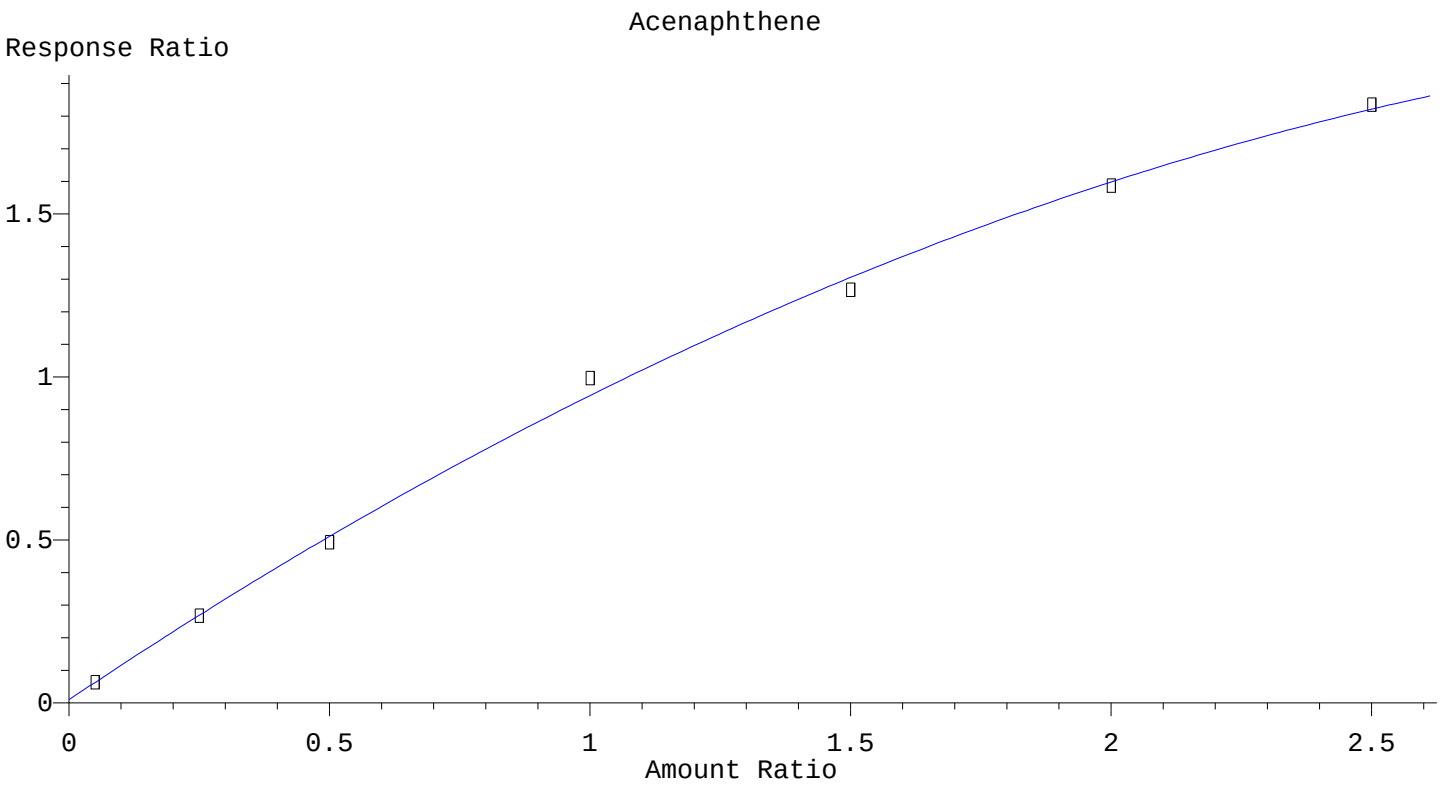
R = -2.53e-001 A*A + 1.89e+000 A + 2.82e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



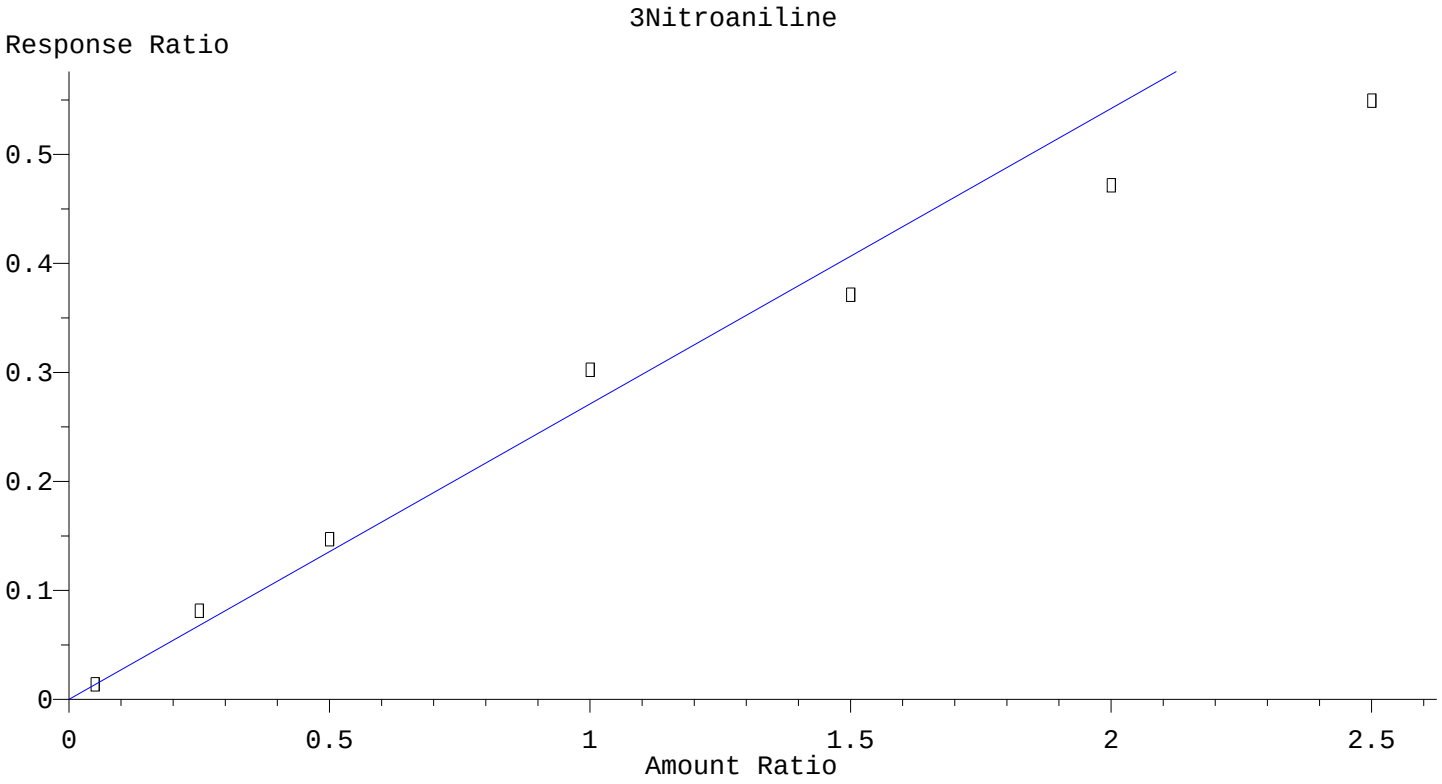
R = -1.99e-001 A*A + 1.32e+000 A + 1.70e-002
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a)



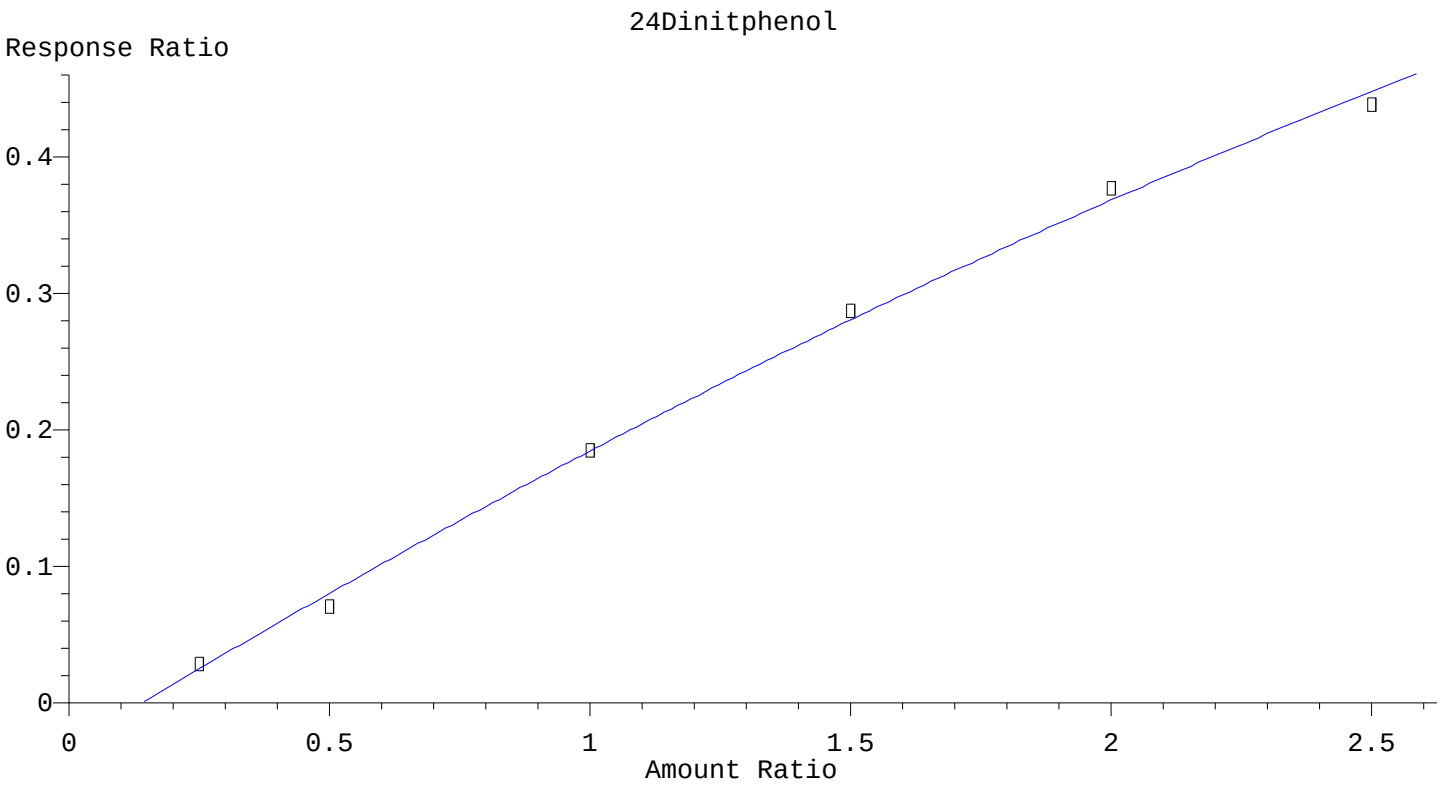
Resp Ratio = 2.92e-001 * Amt
RF Rel Std Dev = 9.2% Curve Fit: Avg RF



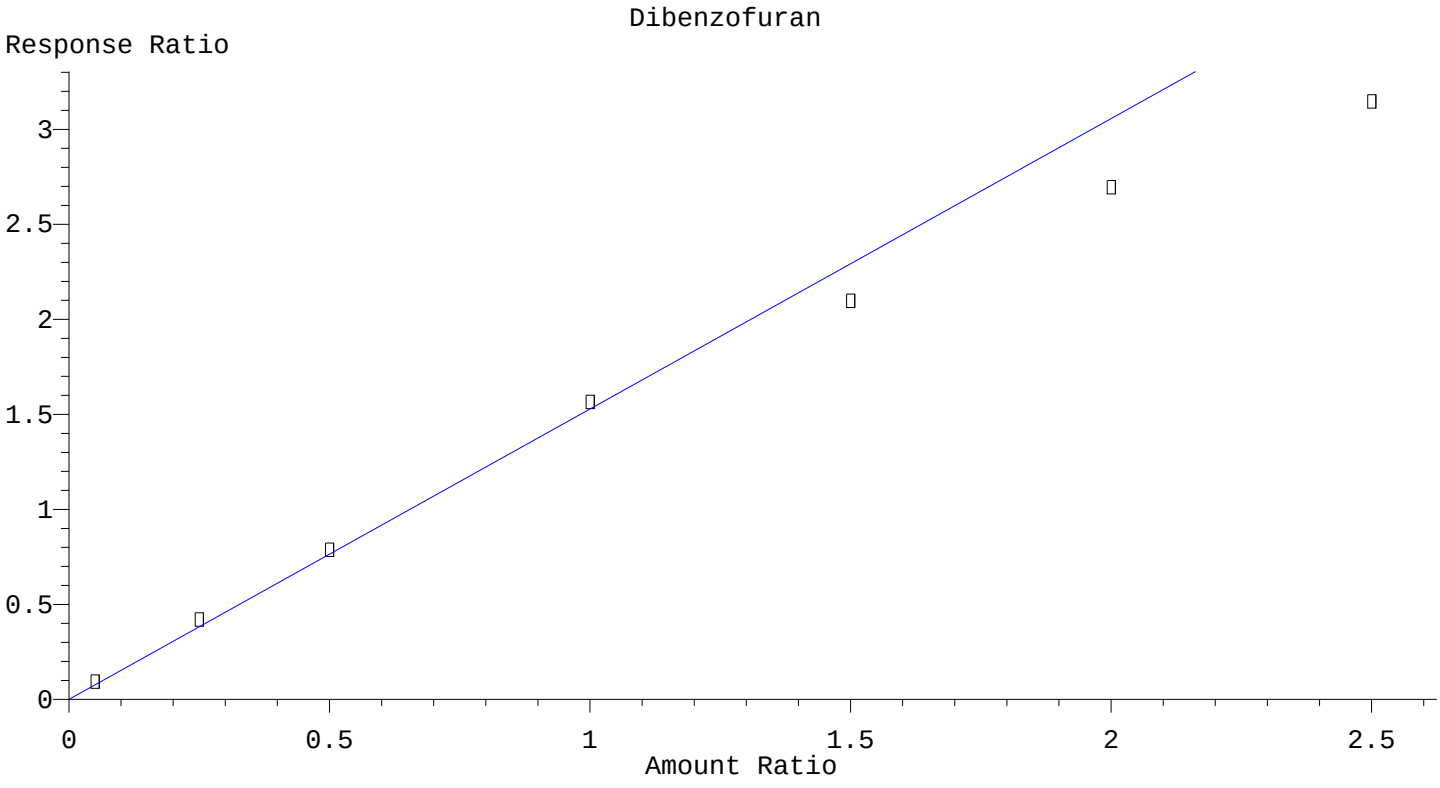
R = -1.39e-001 A*A + 1.07e+000 A + 9.54e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



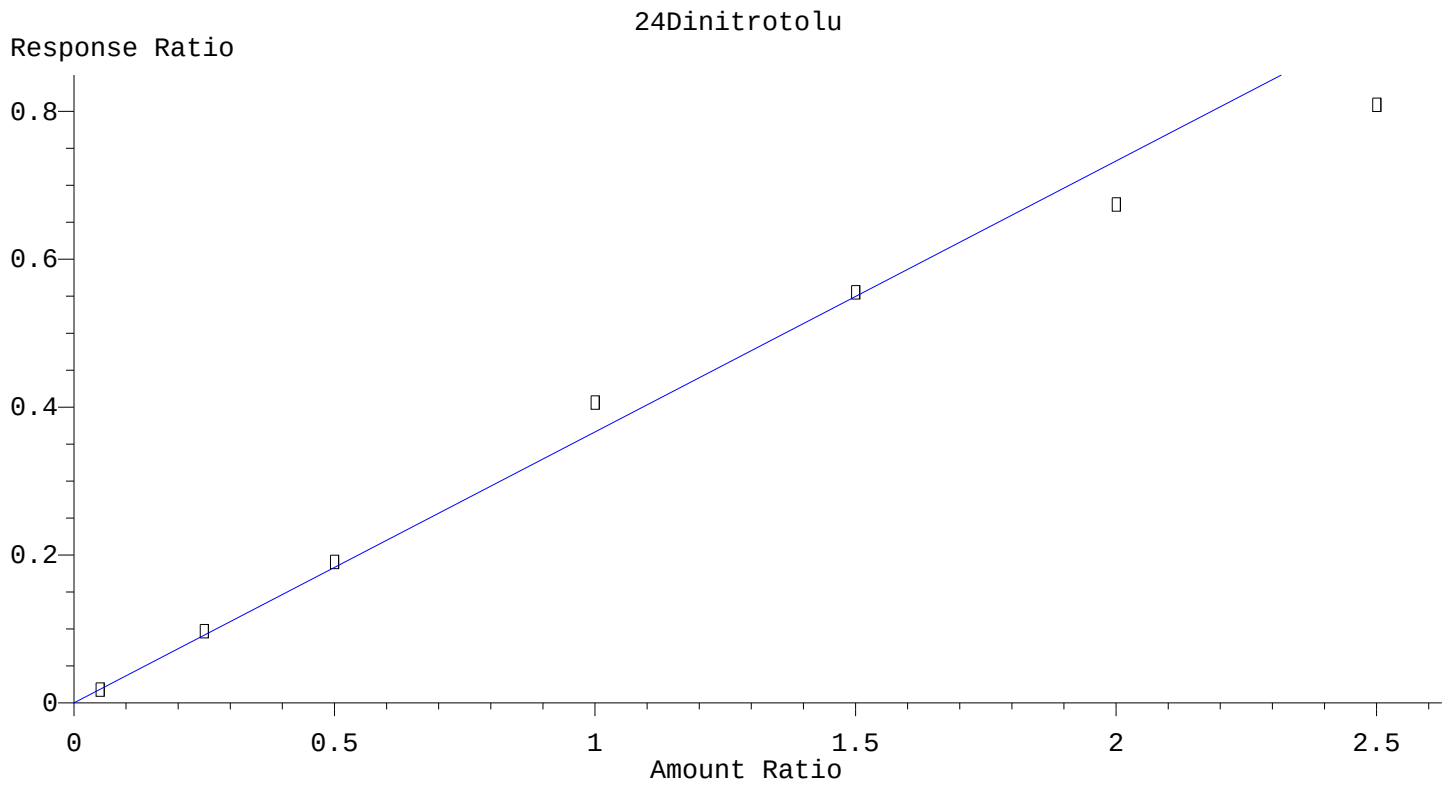
Resp Ratio = 2.71e-001 * Amt
RF Rel Std Dev = 14.2% Curve Fit: Avg RF



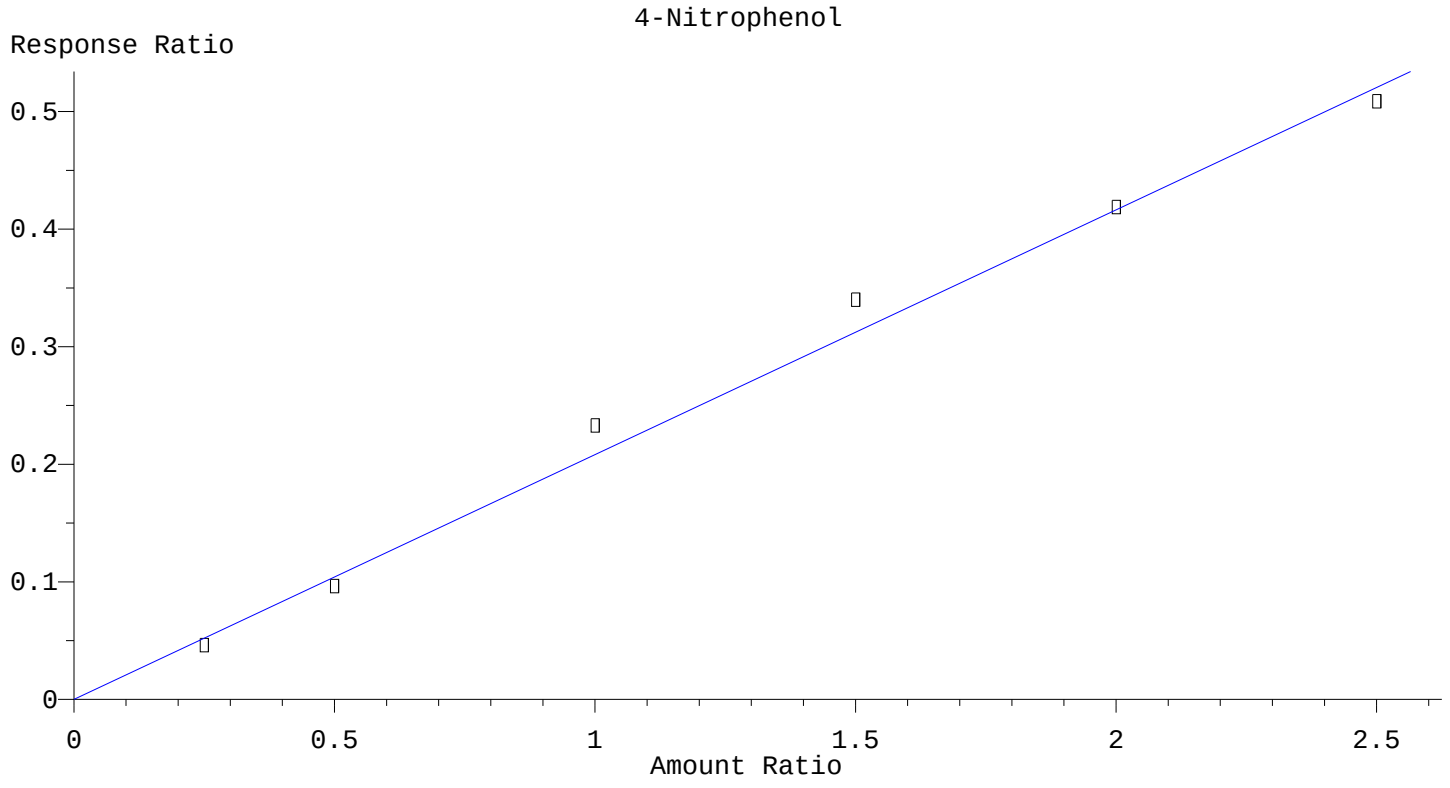
R = -1.66e-002 A*A + 2.34e-001 A - 3.24e-002
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)



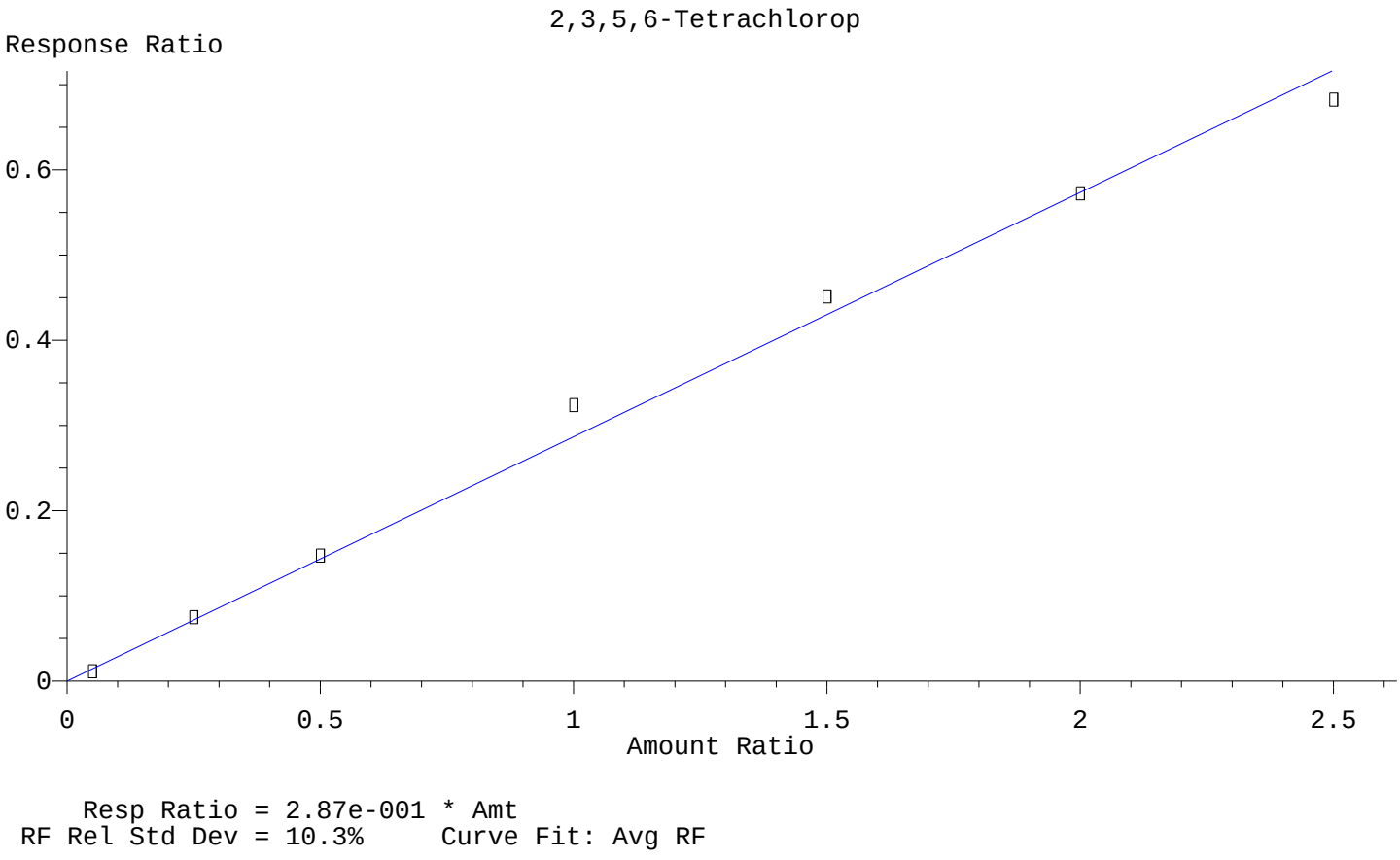
Resp Ratio = 1.53e+000 * Amt
RF Rel Std Dev = 13.8% Curve Fit: Avg RF



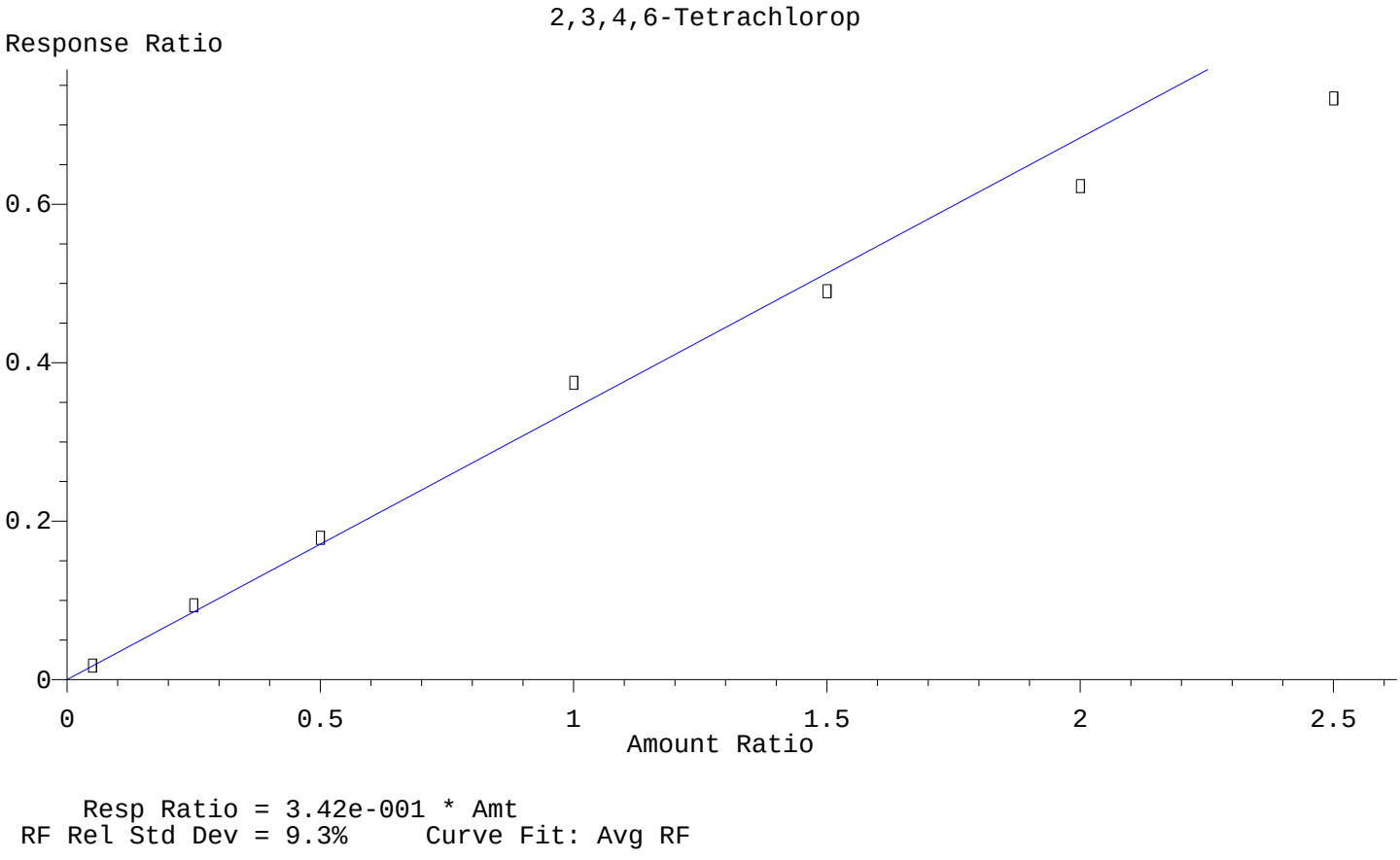
Resp Ratio = 3.66e-001 * Amt
RF Rel Std Dev = 7.9% Curve Fit: Avg RF



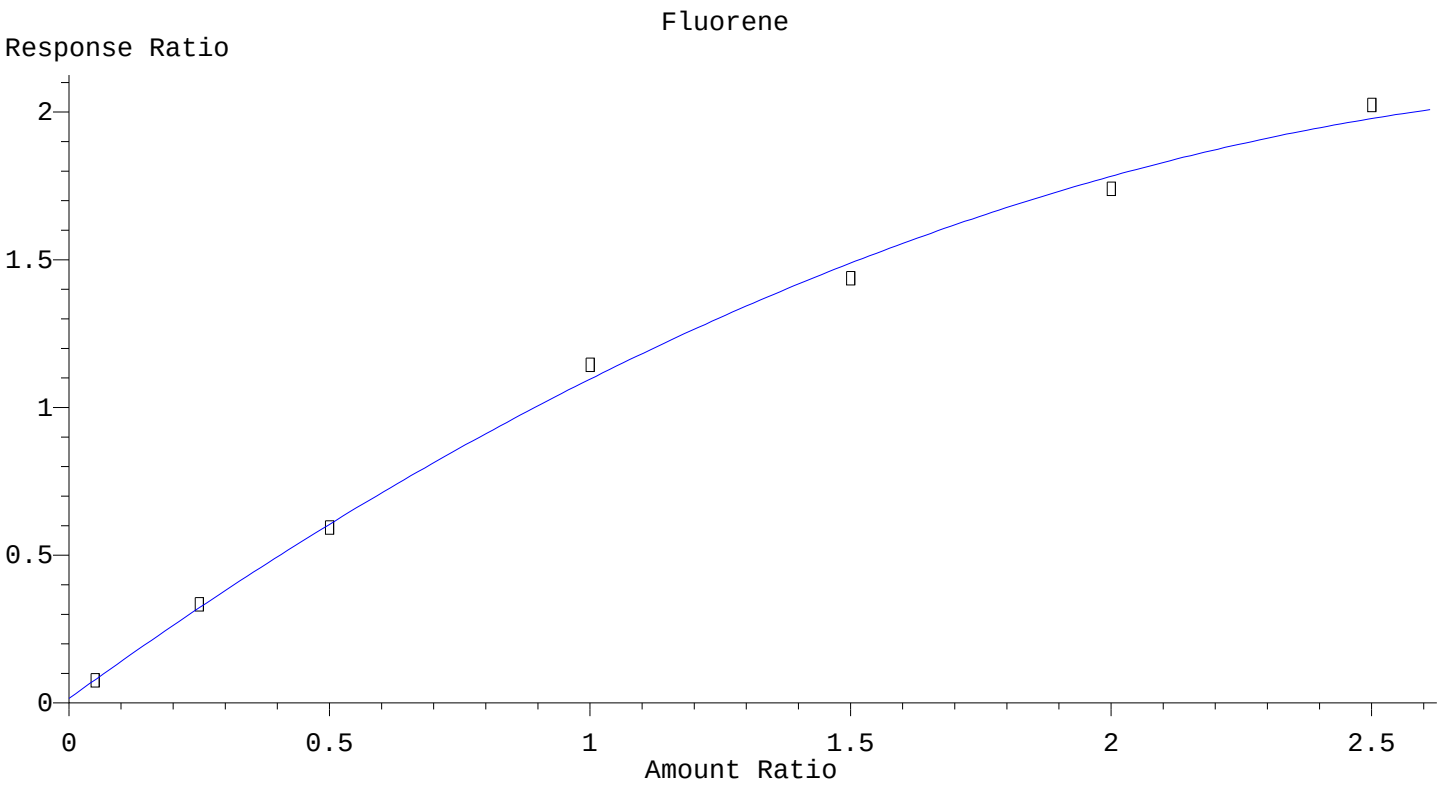
Resp Ratio = 2.08e-001 * Amt
RF Rel Std Dev = 9.1% Curve Fit: Avg RF



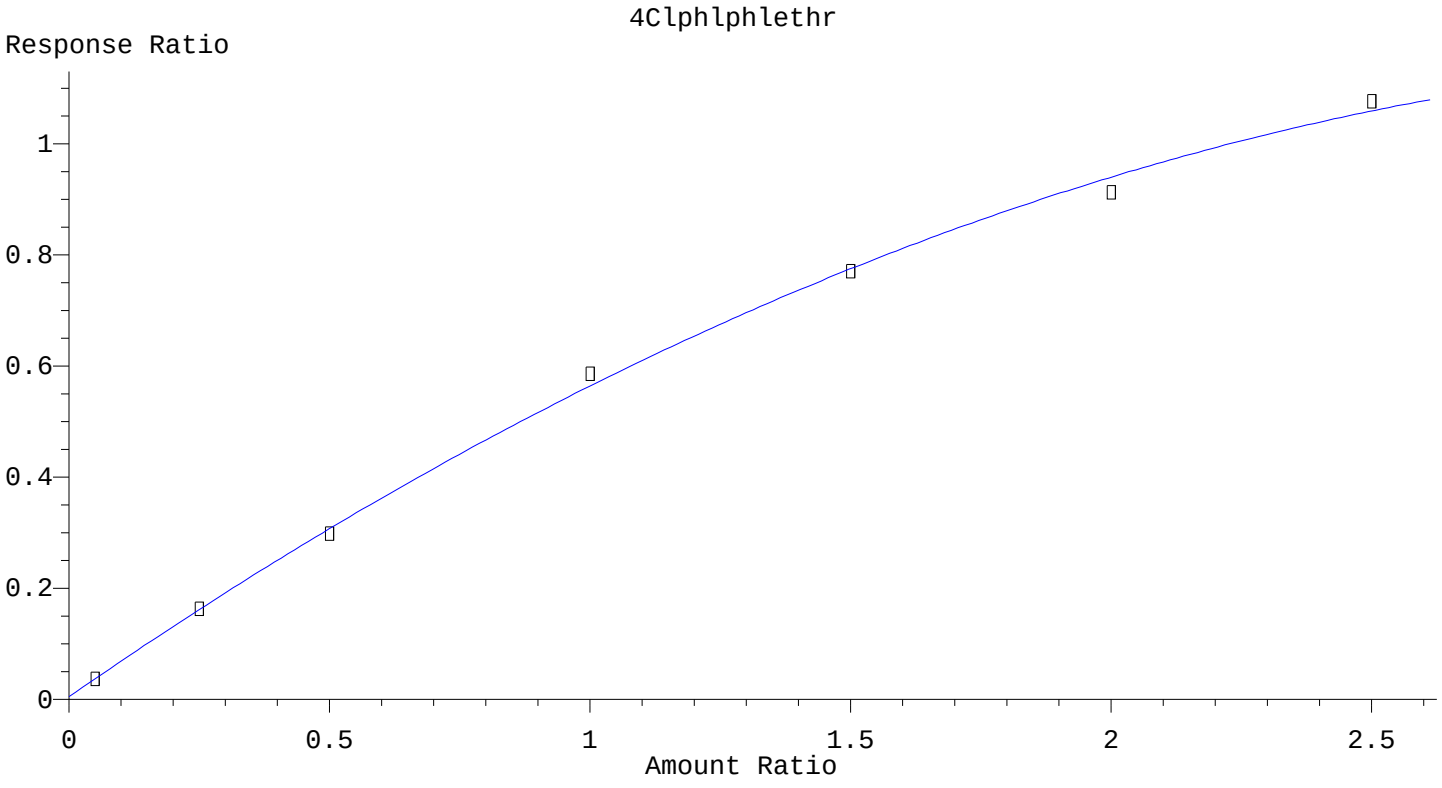
Resp Ratio = 2.87e-001 * Amt
RF Rel Std Dev = 10.3% Curve Fit: Avg RF



Resp Ratio = 3.42e-001 * Amt
RF Rel Std Dev = 9.3% Curve Fit: Avg RF

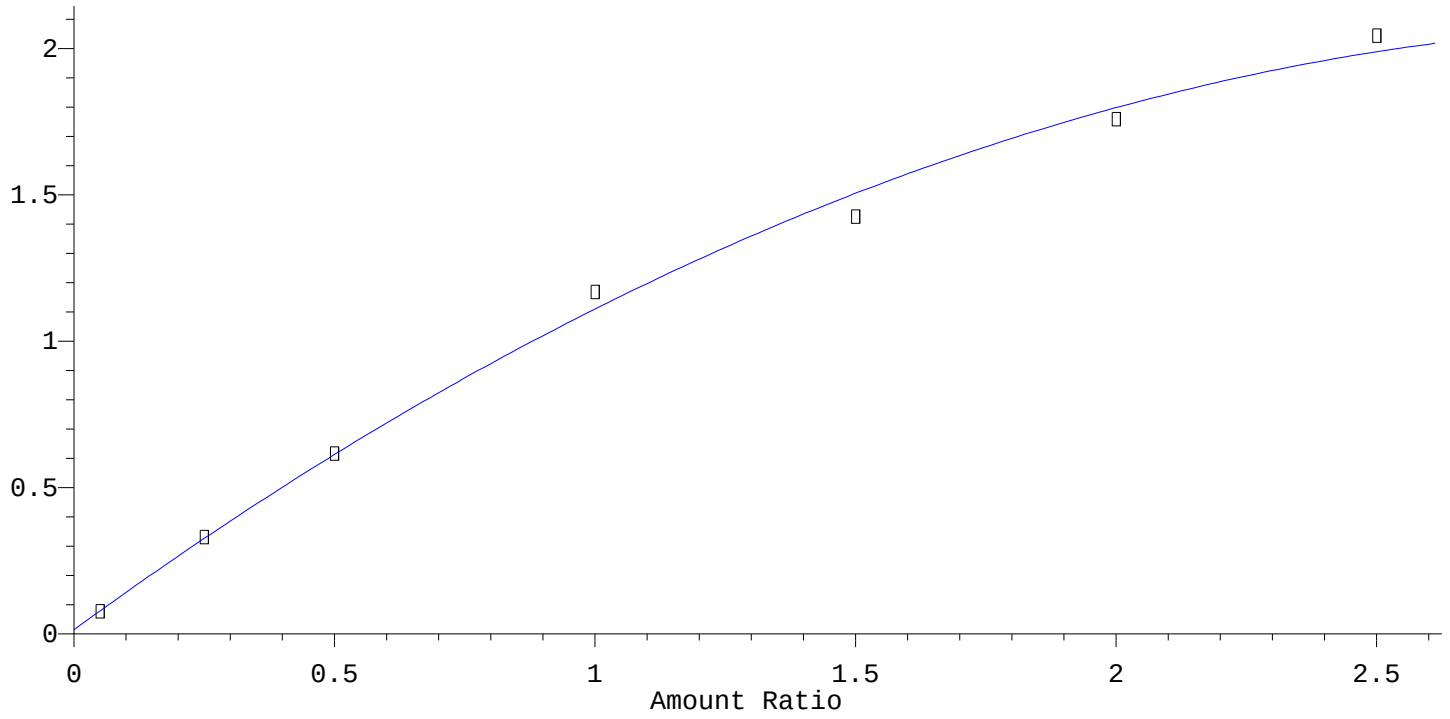


R = -1.97e-001 A*A + 1.28e+000 A + 1.47e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



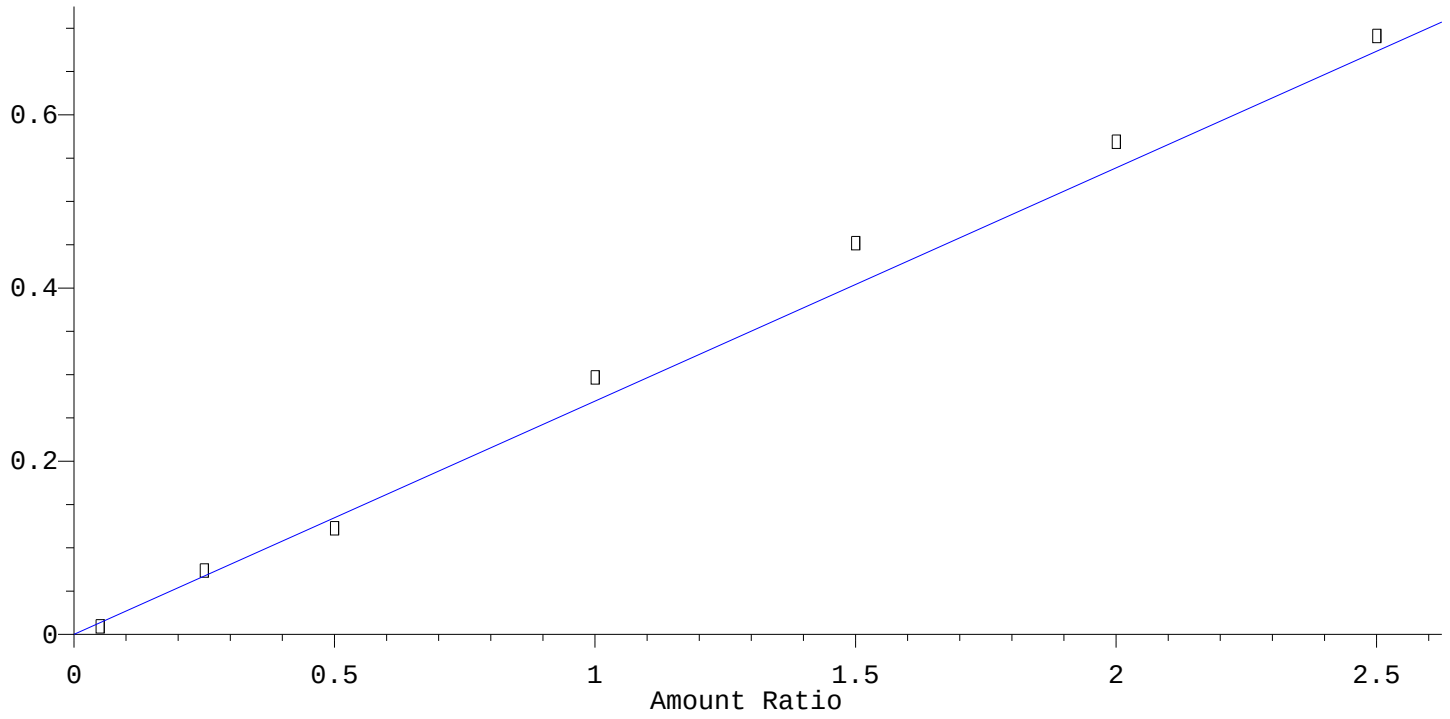
R = -9.18e-002 A*A + 6.51e-001 A + 4.56e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

Diethylphthal

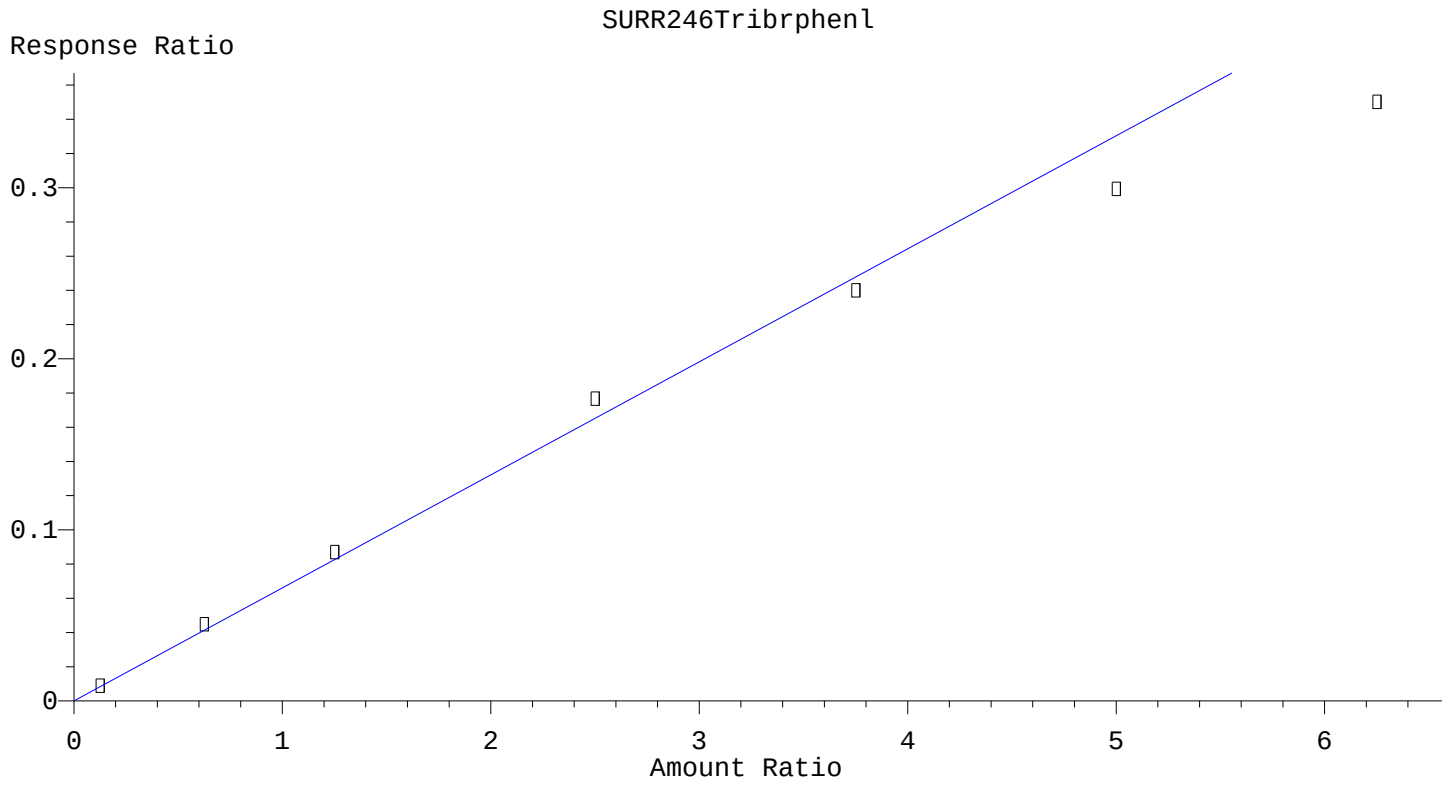


R = -2.04e-001 A*A + 1.30e+000 A + 1.41e-002
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)

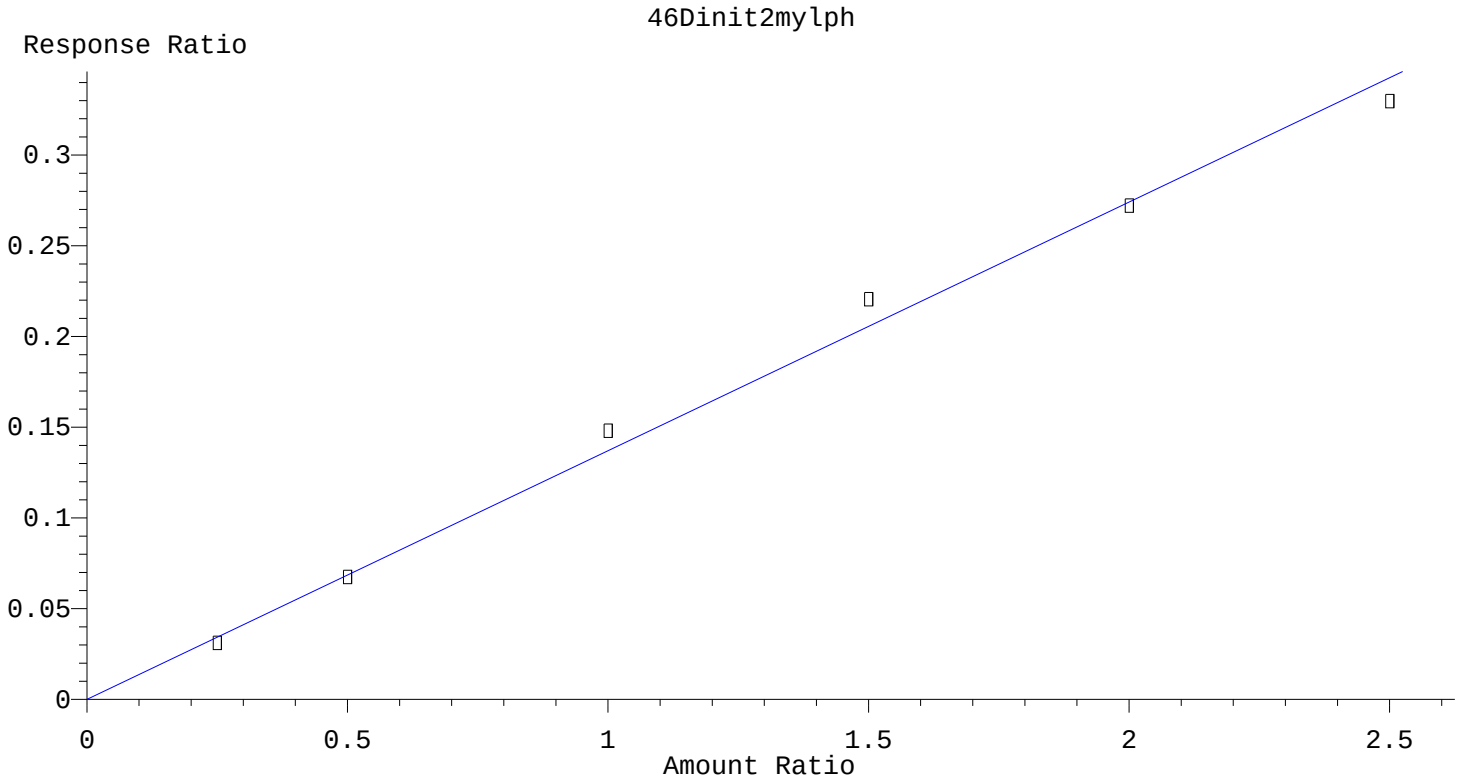
4Nitroaniline



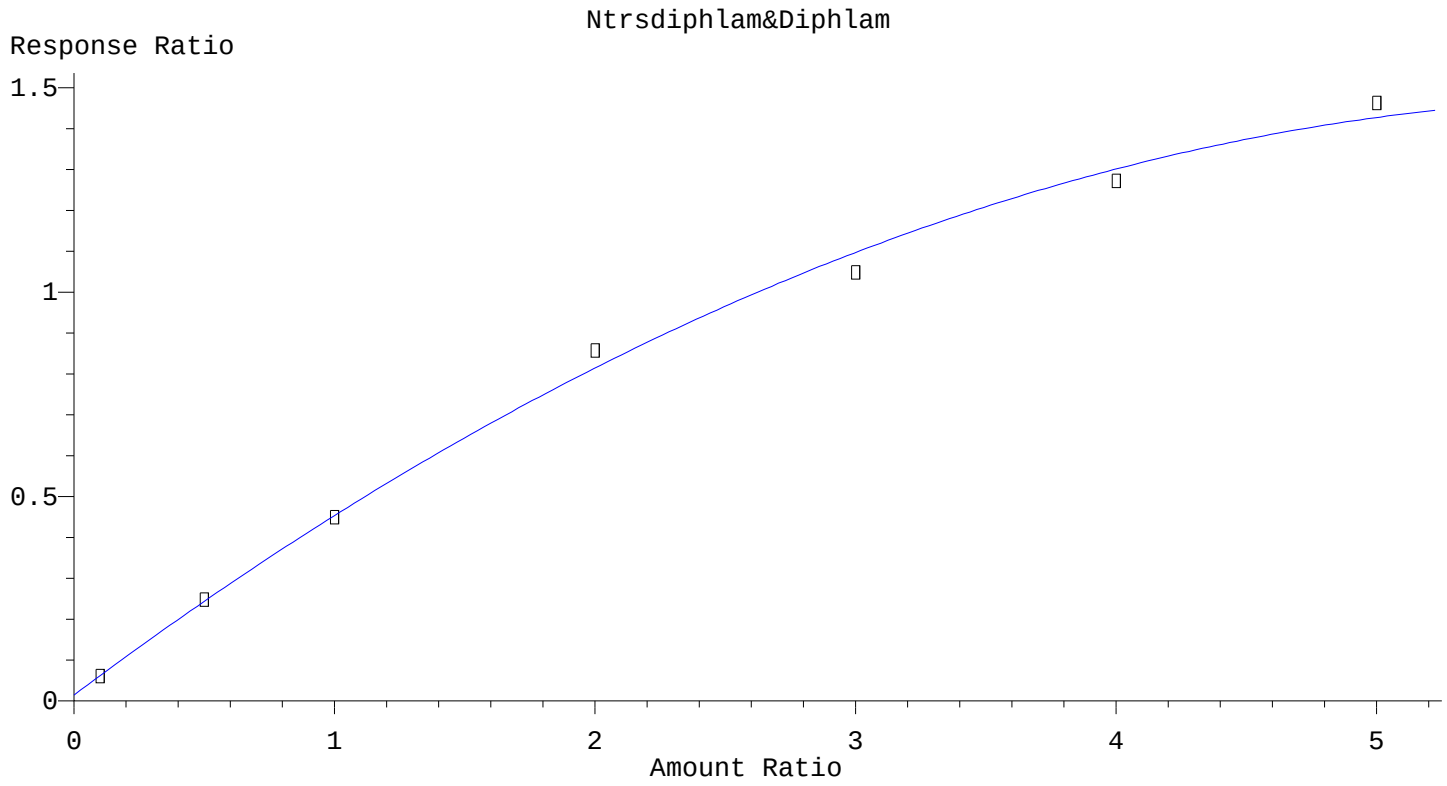
Resp Ratio = 2.69e-001 * Amt
RF Rel Std Dev = 15.3% Curve Fit: Avg RF



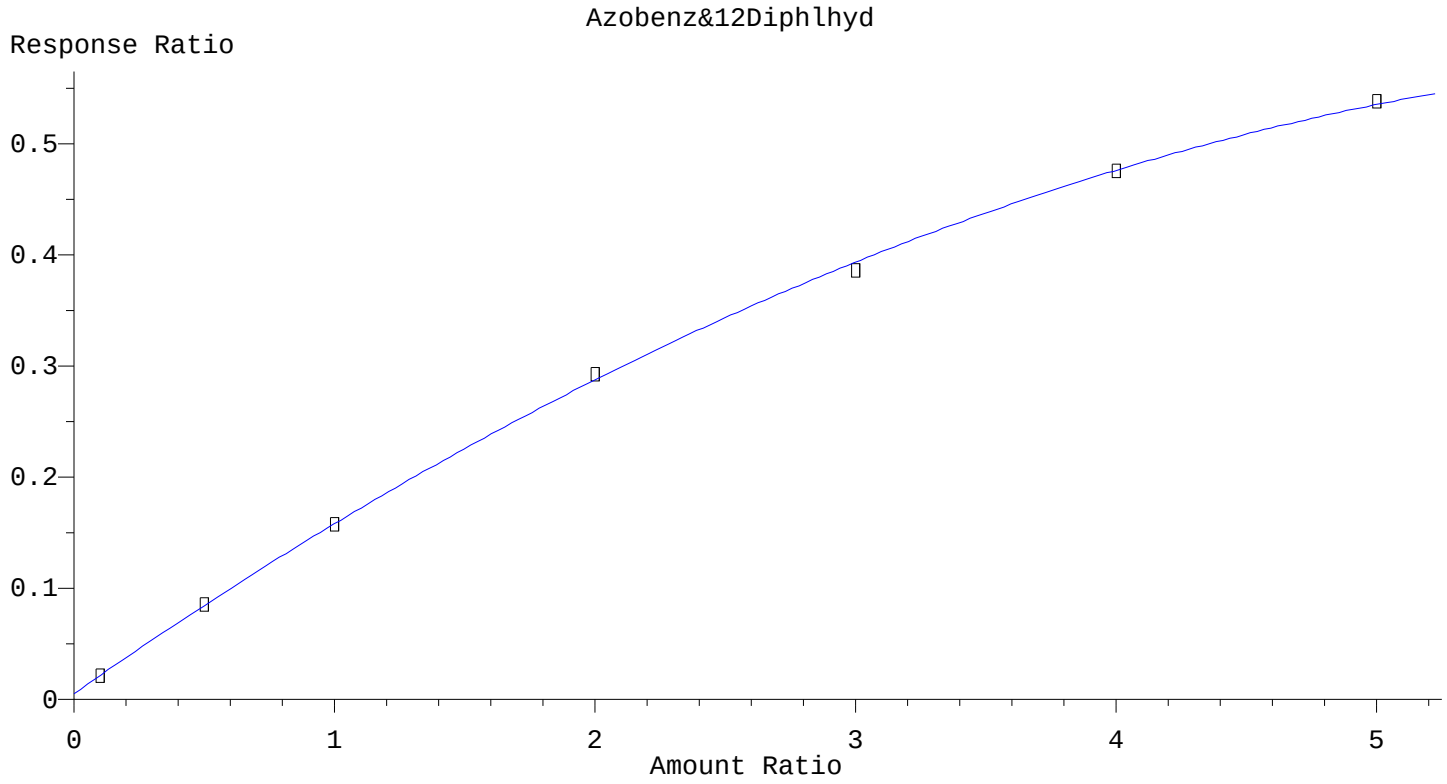
Resp Ratio = 6.62e-002 * Amt
RF Rel Std Dev = 9.5% Curve Fit: Avg RF



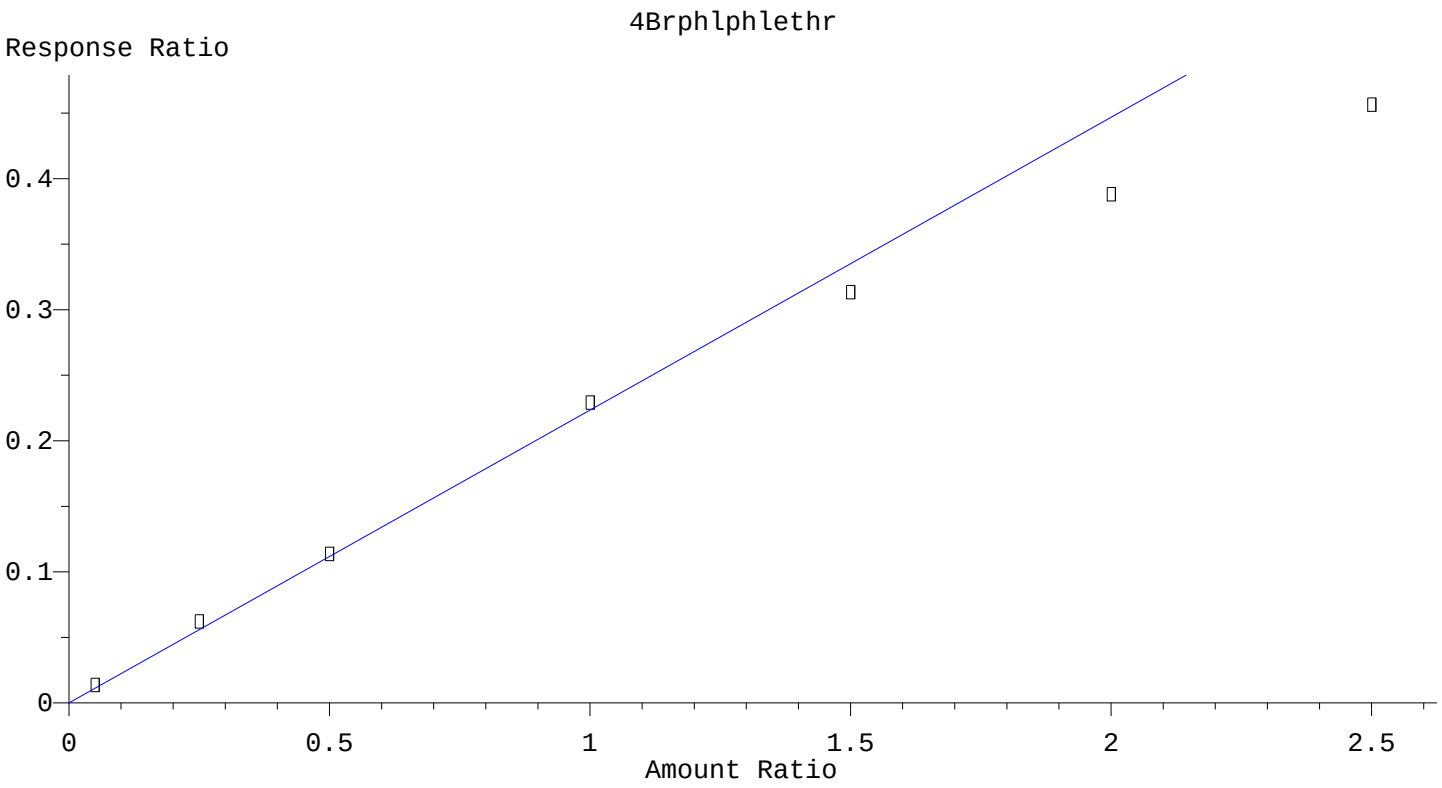
Resp Ratio = 1.37e-001 * Amt
RF Rel Std Dev = 6.6% Curve Fit: Avg RF



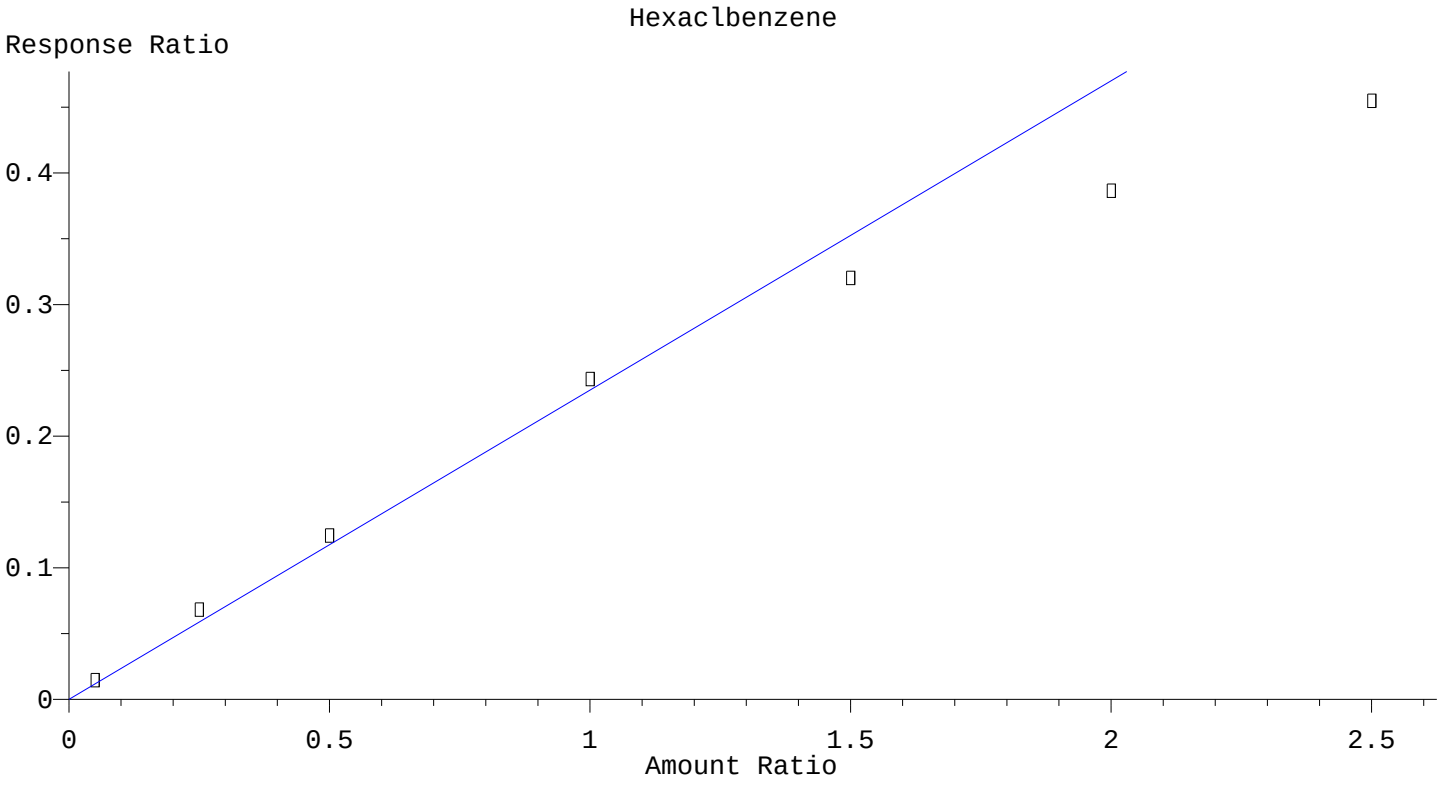
R = -3.92e-002 A*A + 4.79e-001 A + 1.41e-002
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)



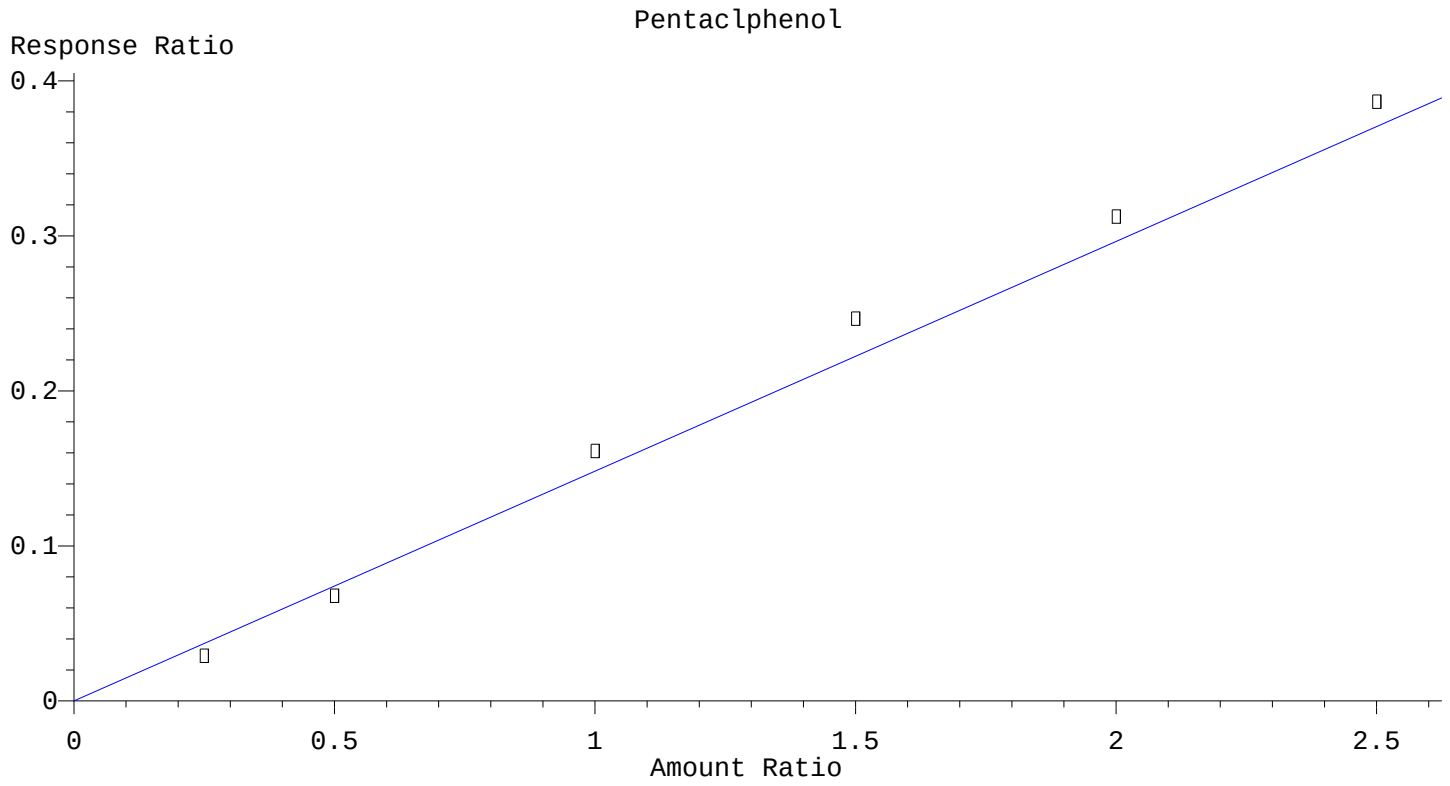
R = -1.17e-002 A*A + 1.65e-001 A + 5.16e-003
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)



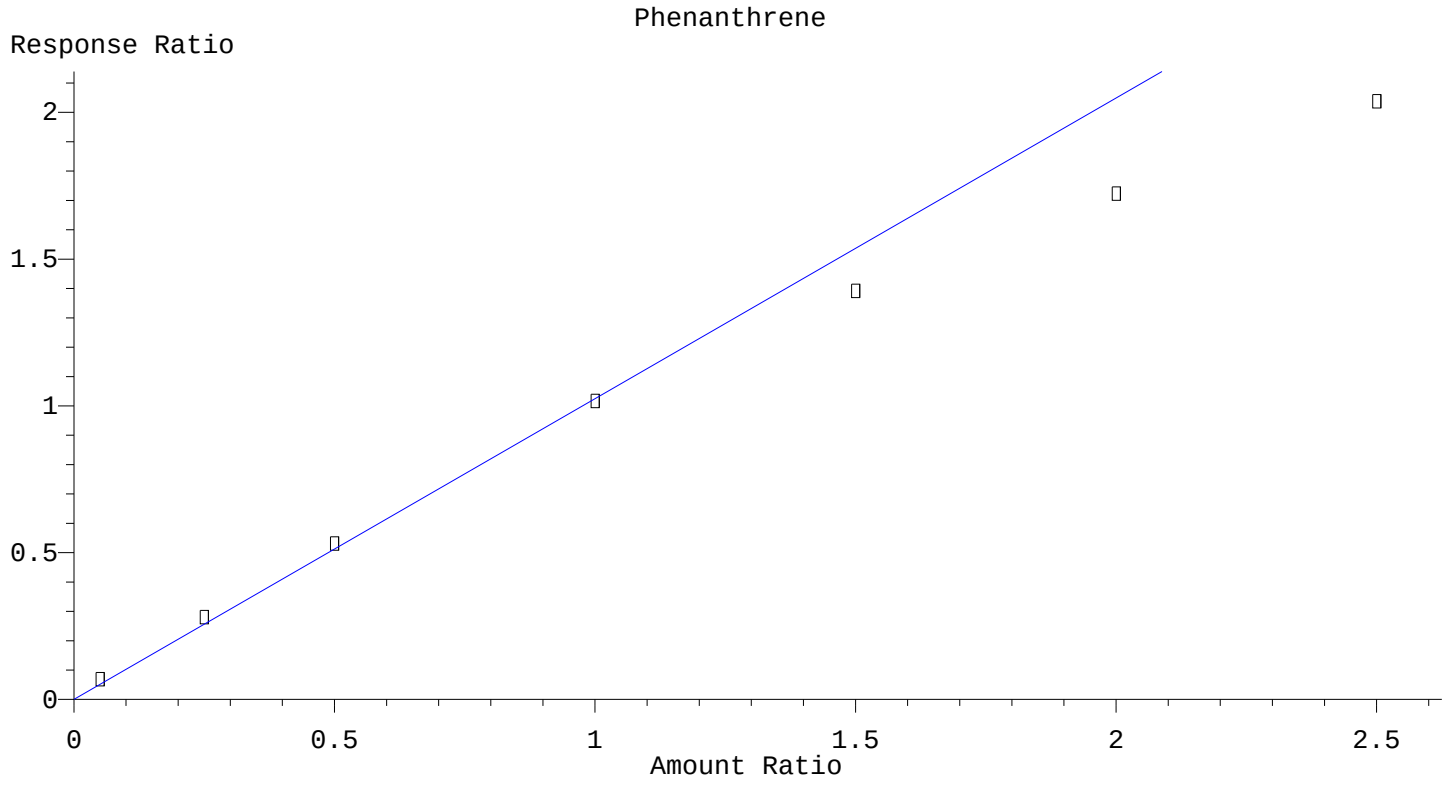
Resp Ratio = 2.23e-001 * Amt
RF Rel Std Dev = 14.1% Curve Fit: Avg RF



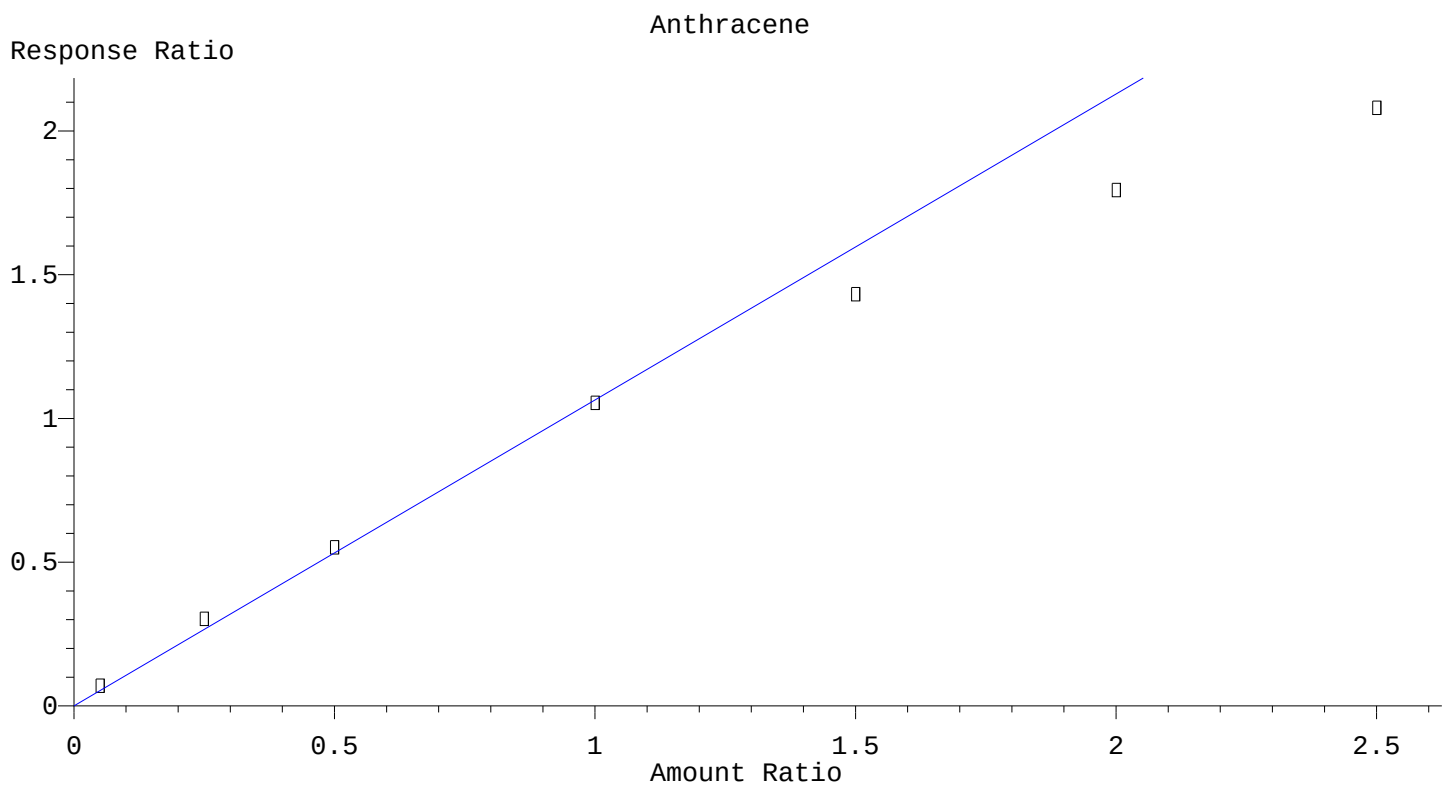
Resp Ratio = 2.35e-001 * Amt
RF Rel Std Dev = 17.4% Curve Fit: Avg RF



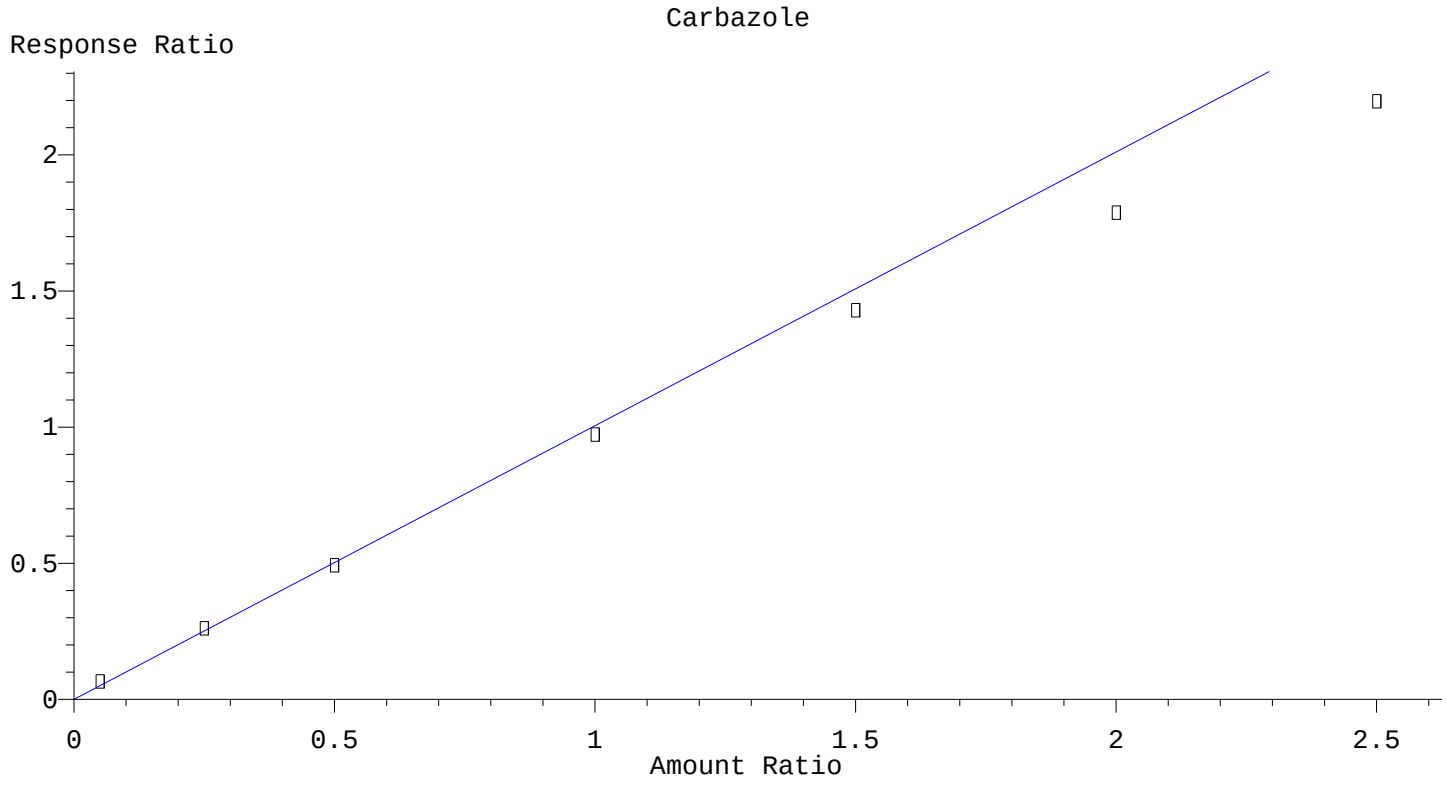
Resp Ratio = 1.48e-001 * Amt
RF Rel Std Dev = 12.5% Curve Fit: Avg RF



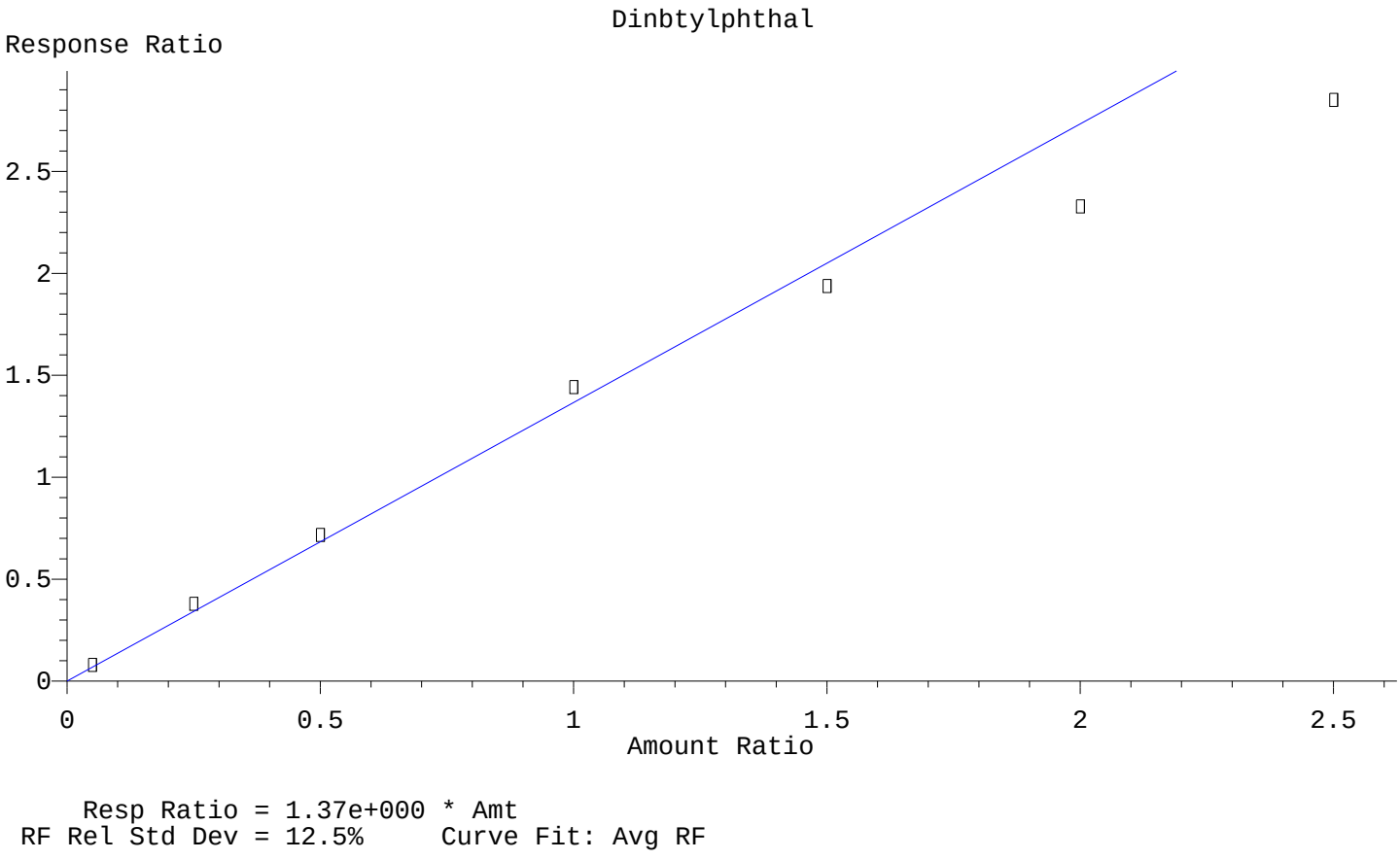
Resp Ratio = 1.02e+000 * Amt
RF Rel Std Dev = 18.2% Curve Fit: Avg RF



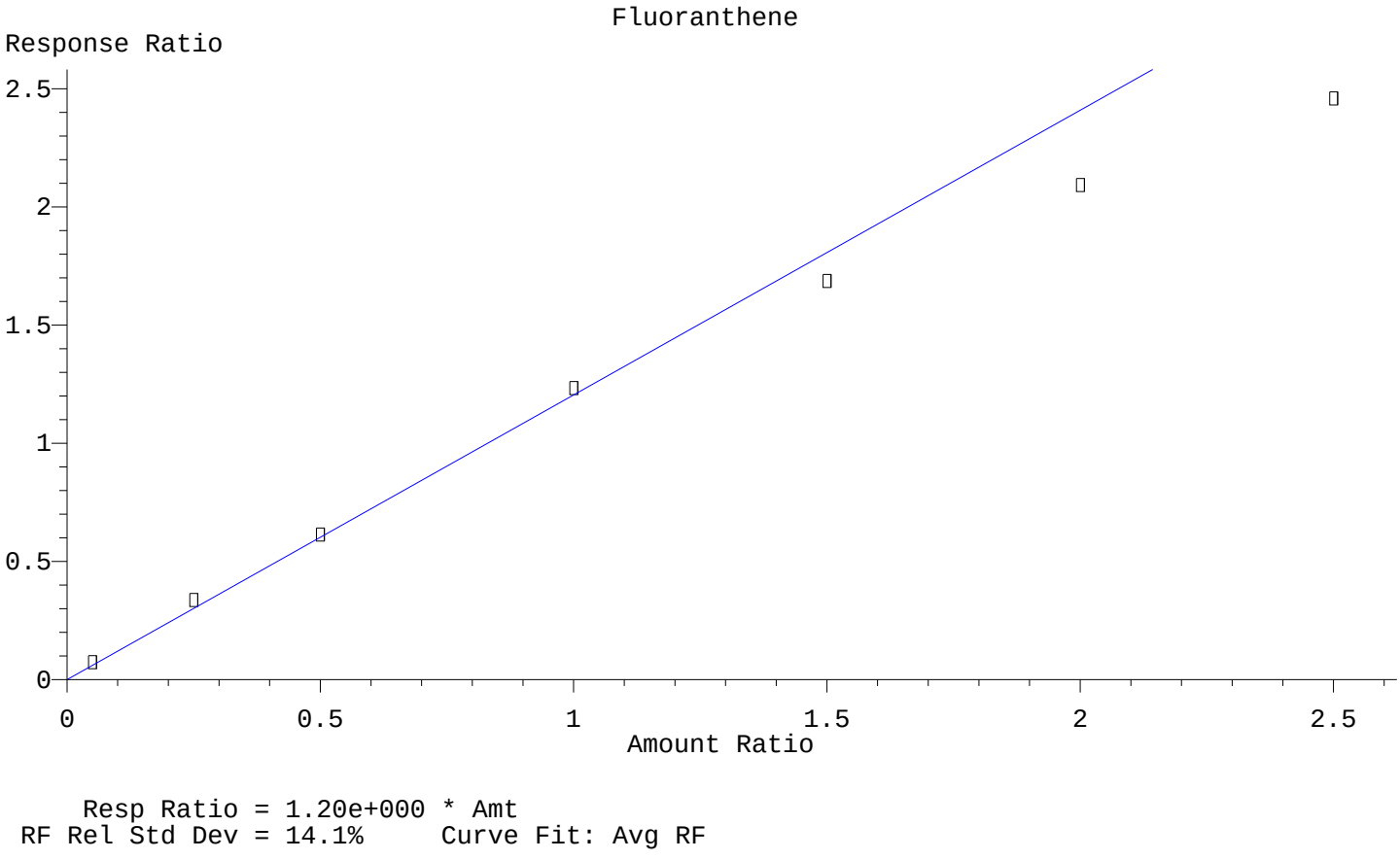
Resp Ratio = 1.06e+000 * Amt
RF Rel Std Dev = 18.3% Curve Fit: Avg RF



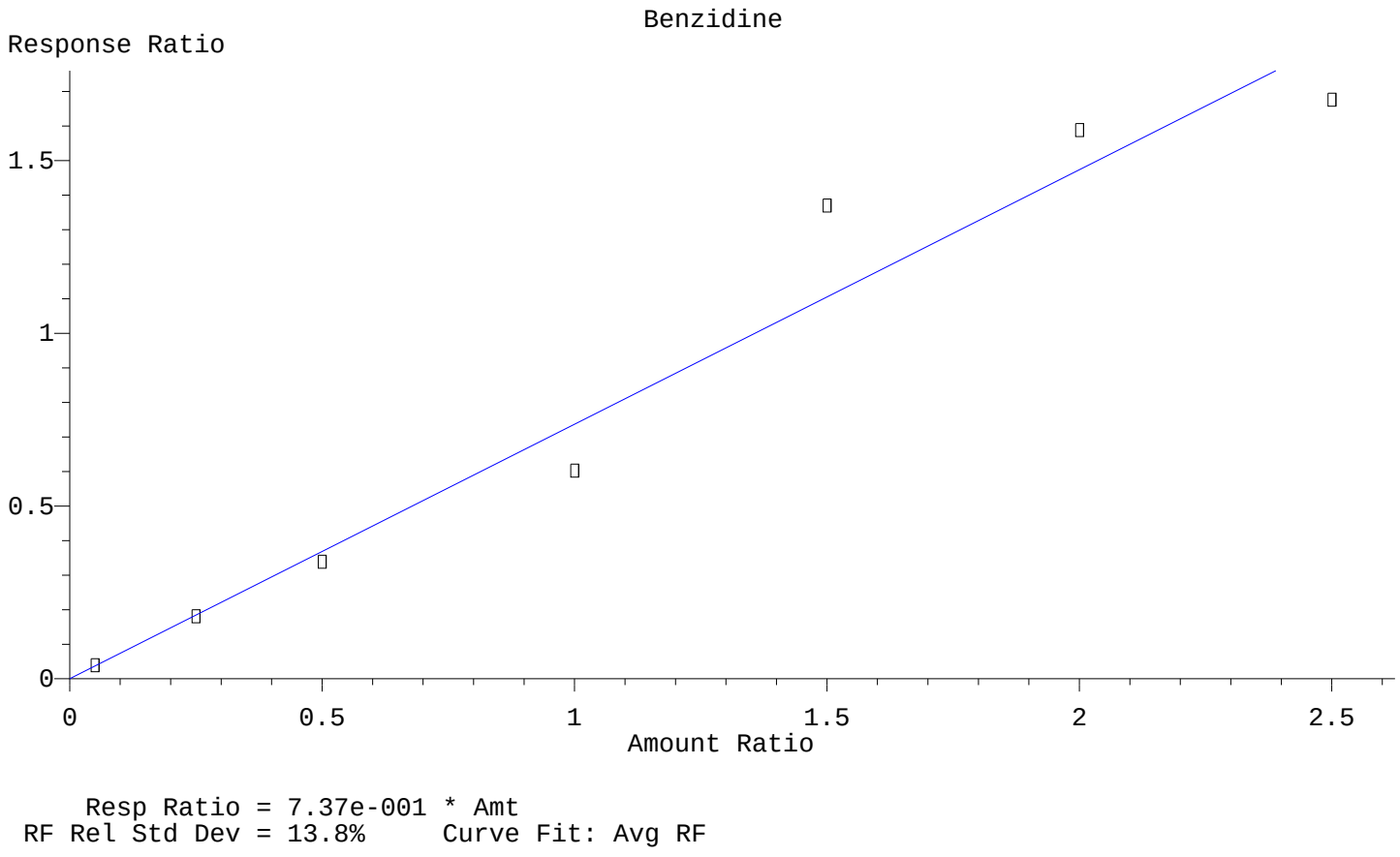
Resp Ratio = 1.01e+000 * Amt
RF Rel Std Dev = 14.5% Curve Fit: Avg RF



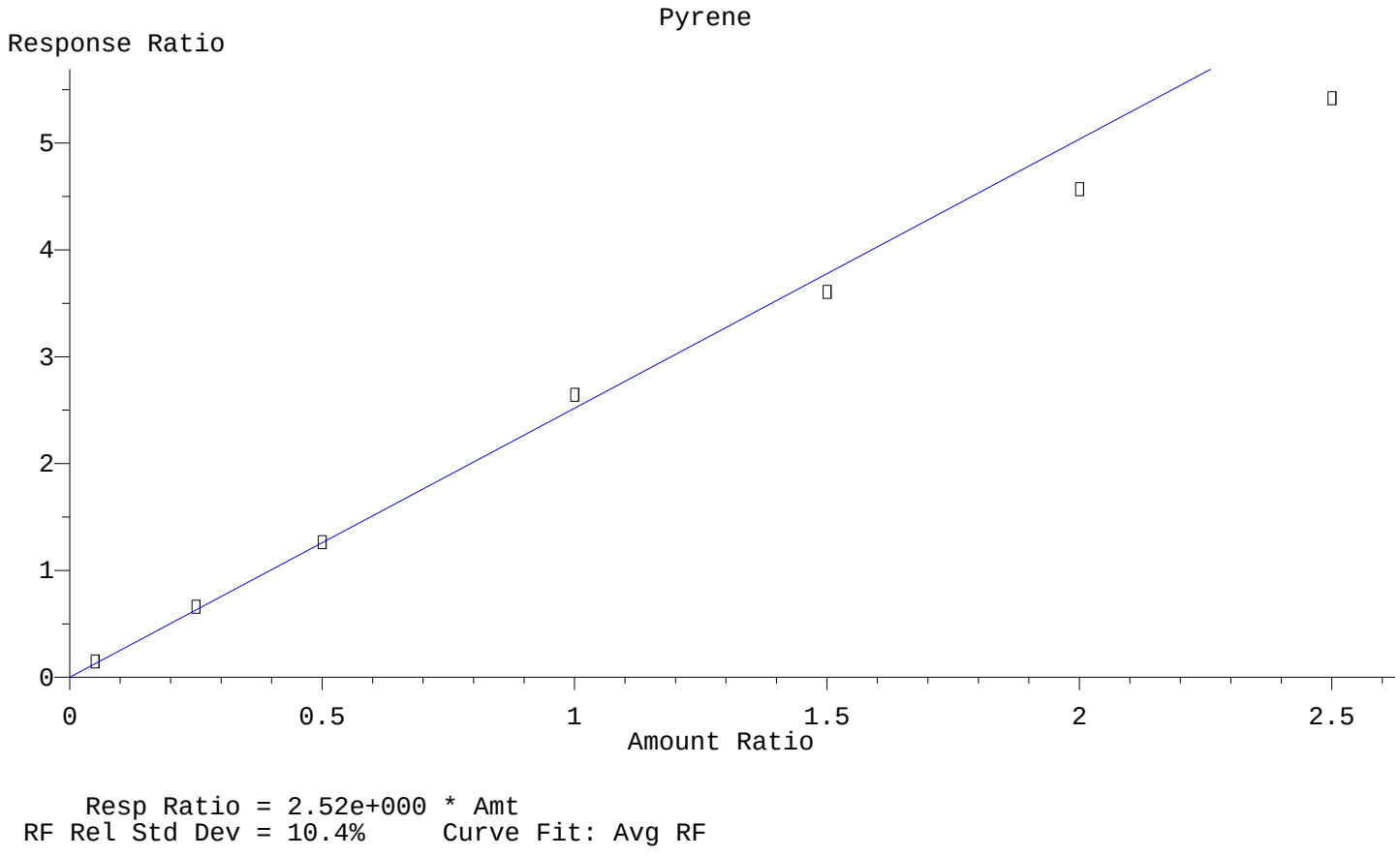
Resp Ratio = 1.37e+000 * Amt
RF Rel Std Dev = 12.5% Curve Fit: Avg RF



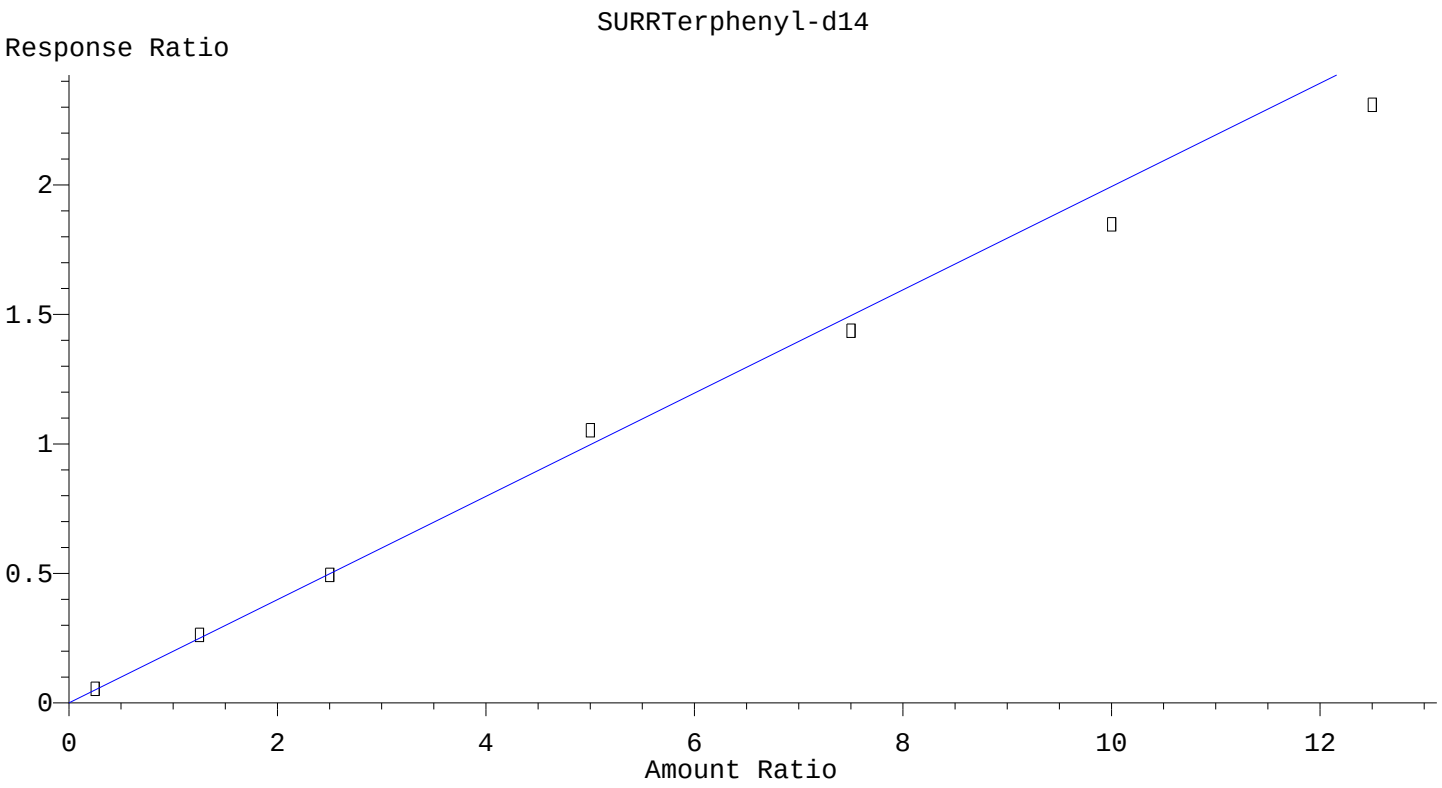
Resp Ratio = 1.20e+000 * Amt
RF Rel Std Dev = 14.1% Curve Fit: Avg RF



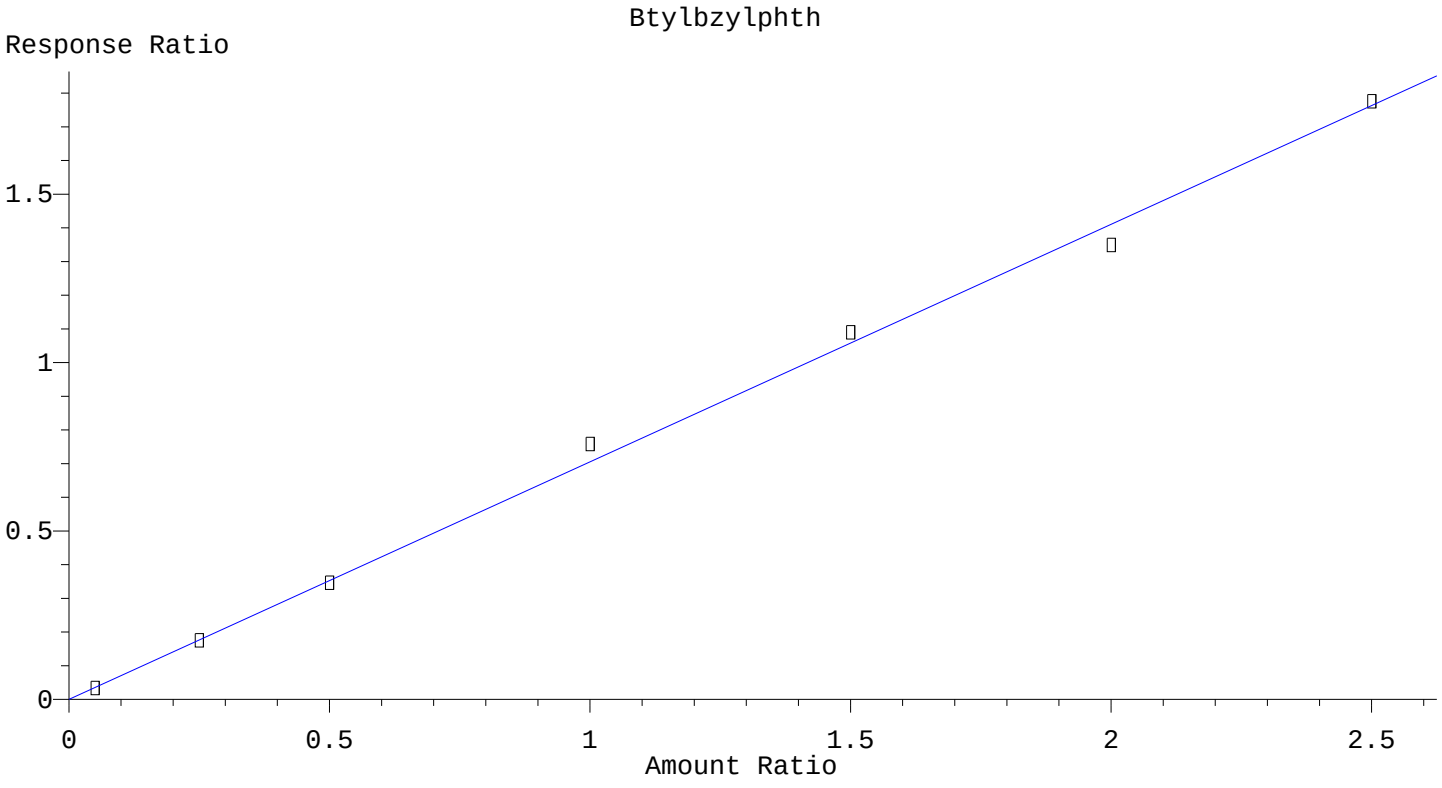
Resp Ratio = 7.37e-001 * Amt
RF Rel Std Dev = 13.8% Curve Fit: Avg RF



Resp Ratio = 2.52e+000 * Amt
RF Rel Std Dev = 10.4% Curve Fit: Avg RF

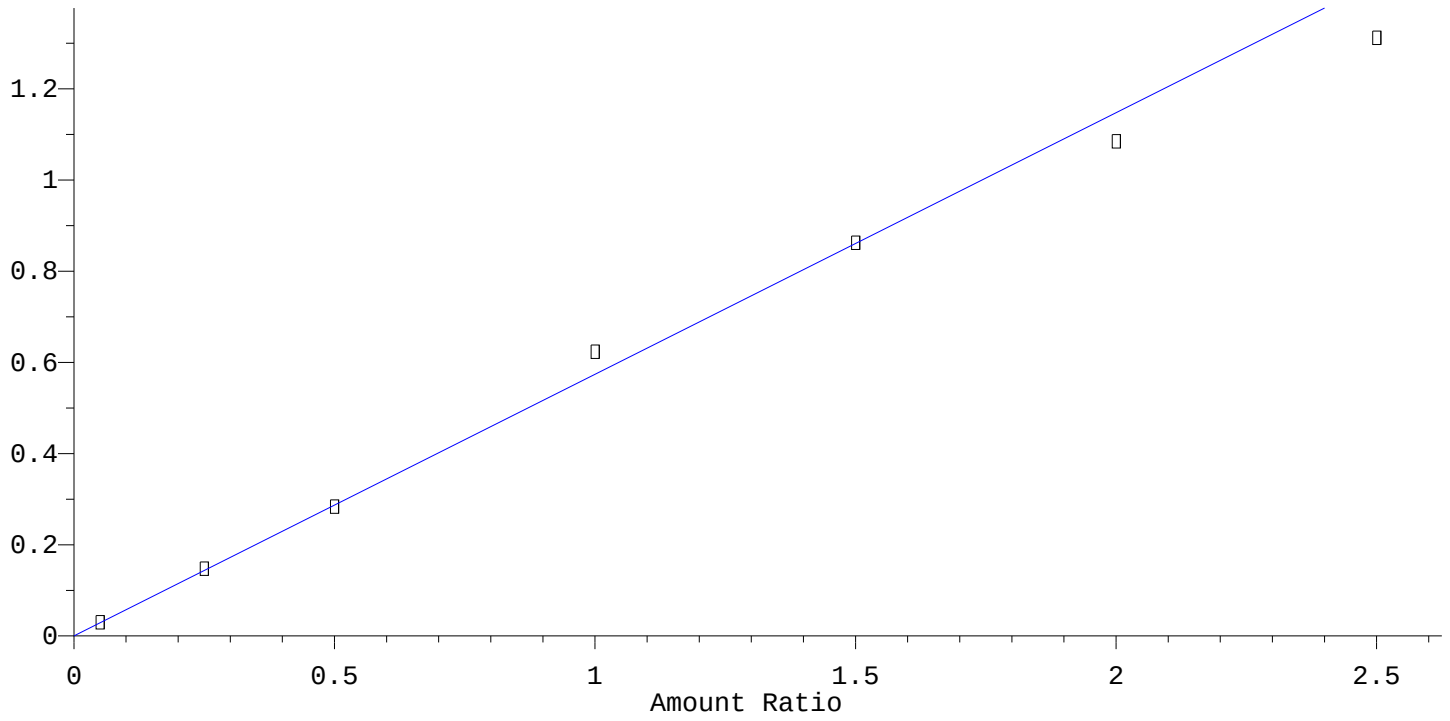


Resp Ratio = 1.99e-001 * Amt
RF Rel Std Dev = 6.6% Curve Fit: Avg RF



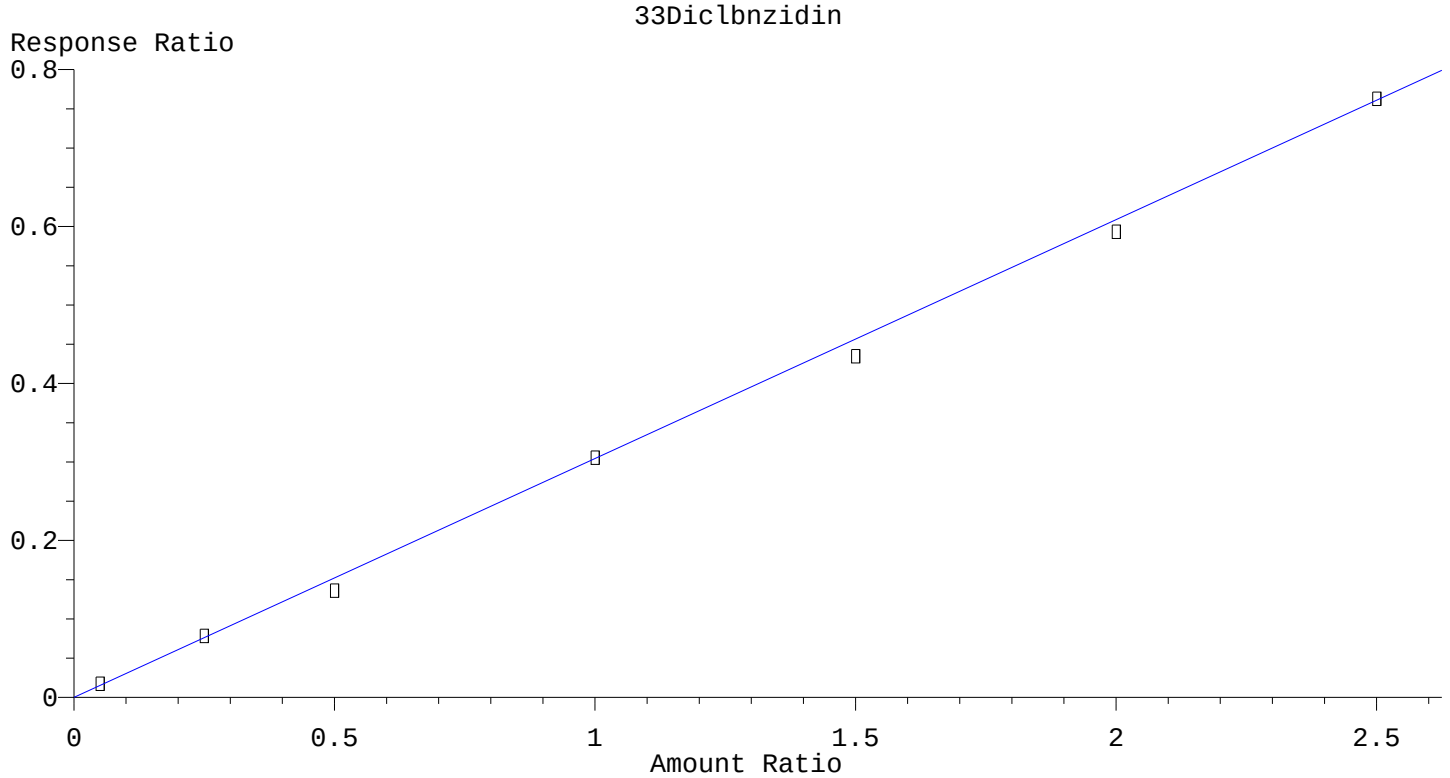
Resp Ratio = 7.05e-001 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF

bis2Ethlhxlad



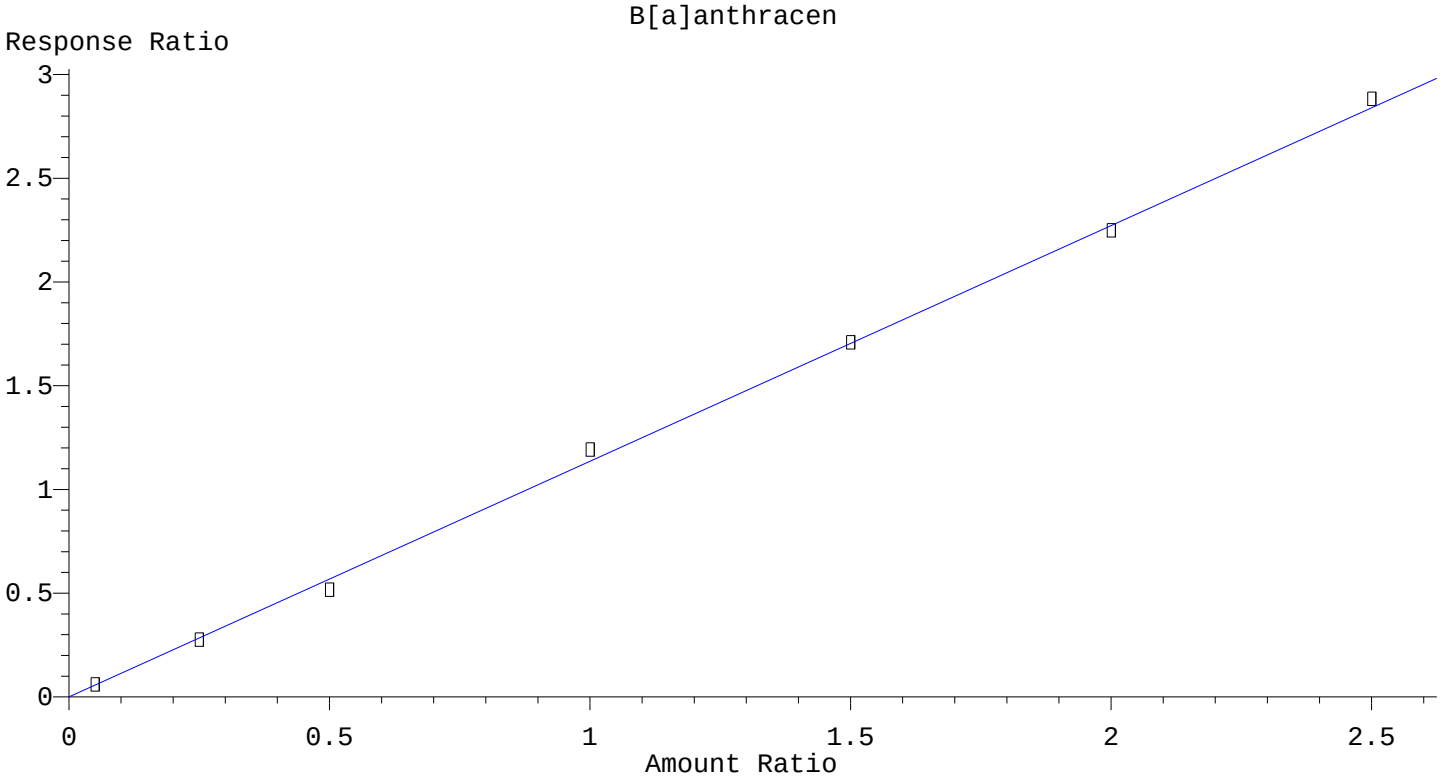
Resp Ratio = 5.74e-001 * Amt
RF Rel Std Dev = 5.8% Curve Fit: Avg RF

33Diclbnzidin



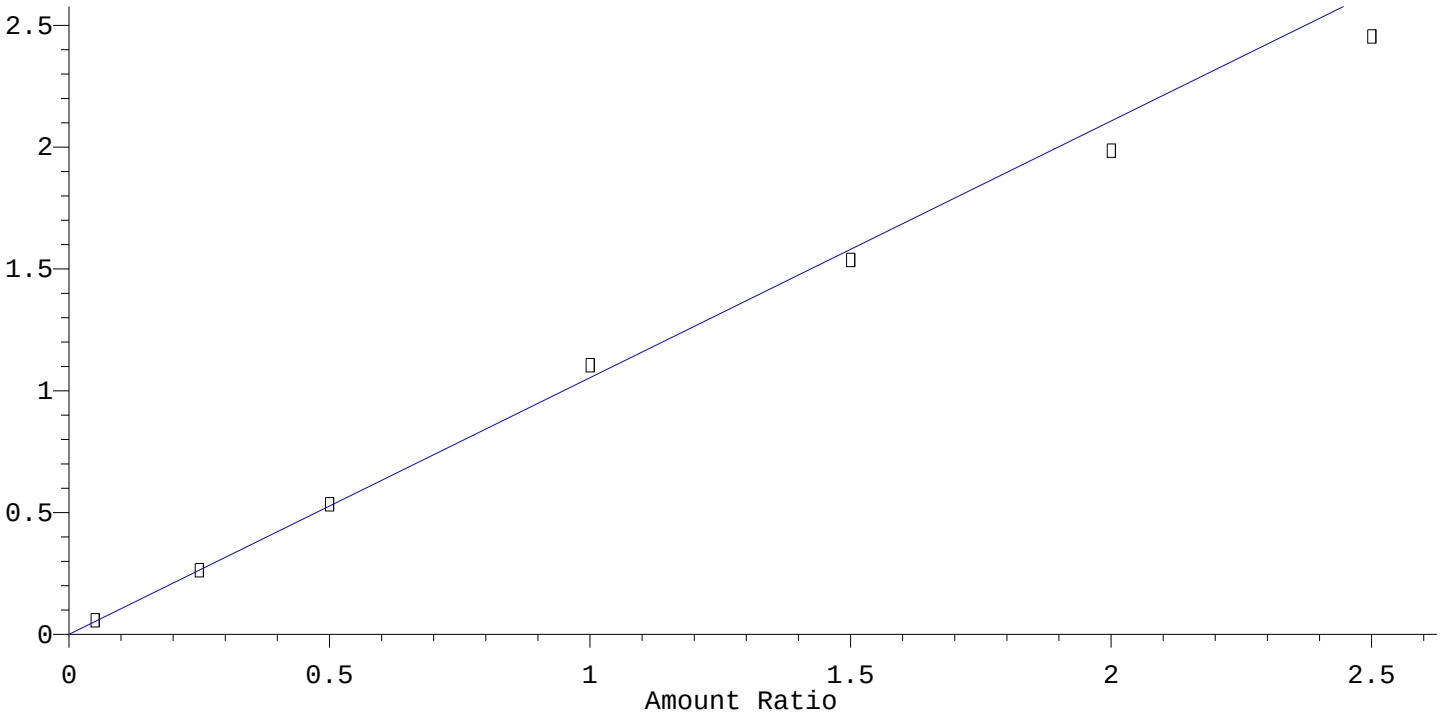
Resp Ratio = 3.04e-001 * Amt
RF Rel Std Dev = 7.7% Curve Fit: Avg RF

B[a]anthracen

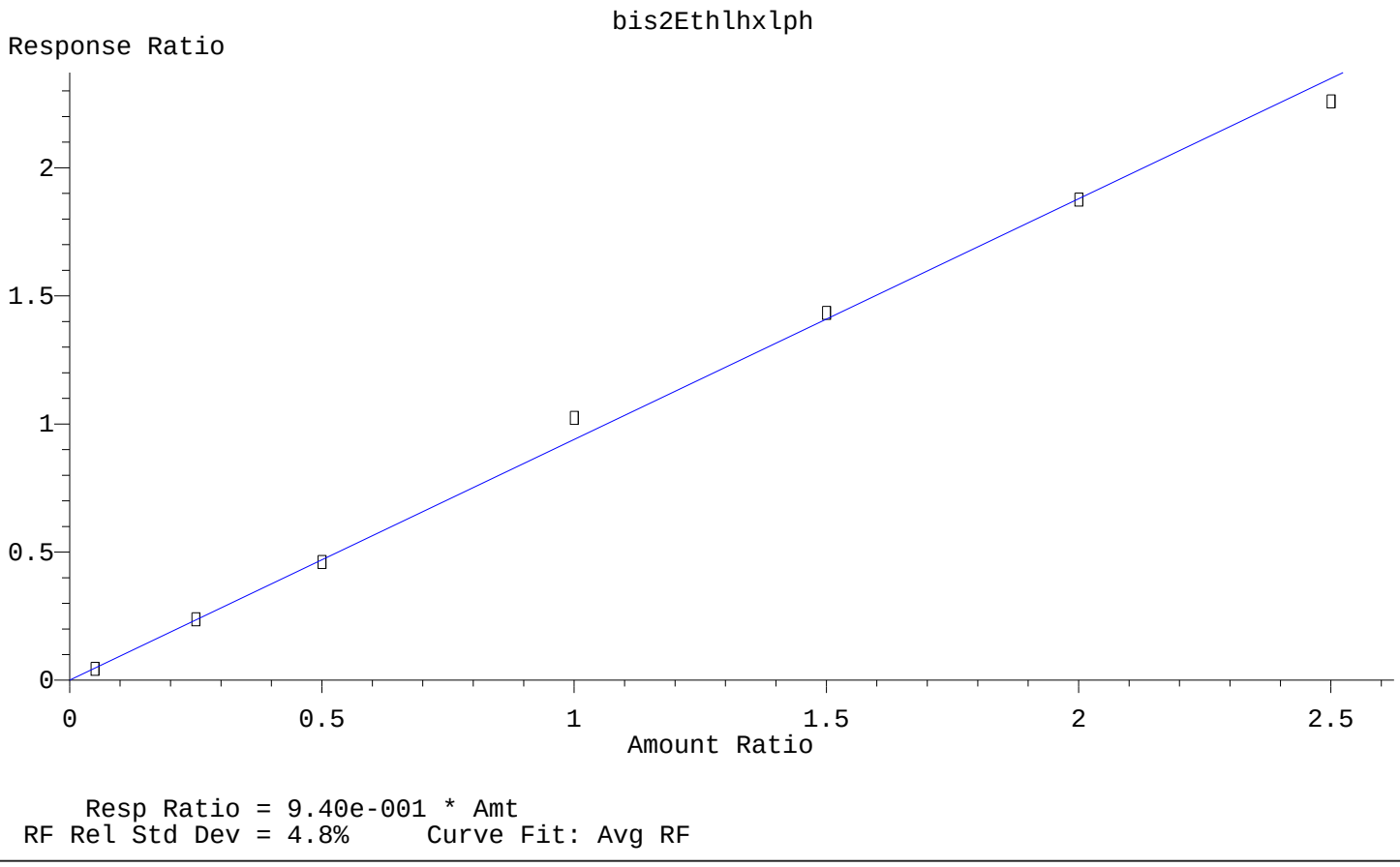


Resp Ratio = 1.14e+000 * Amt
RF Rel Std Dev = 5.0% Curve Fit: Avg RF

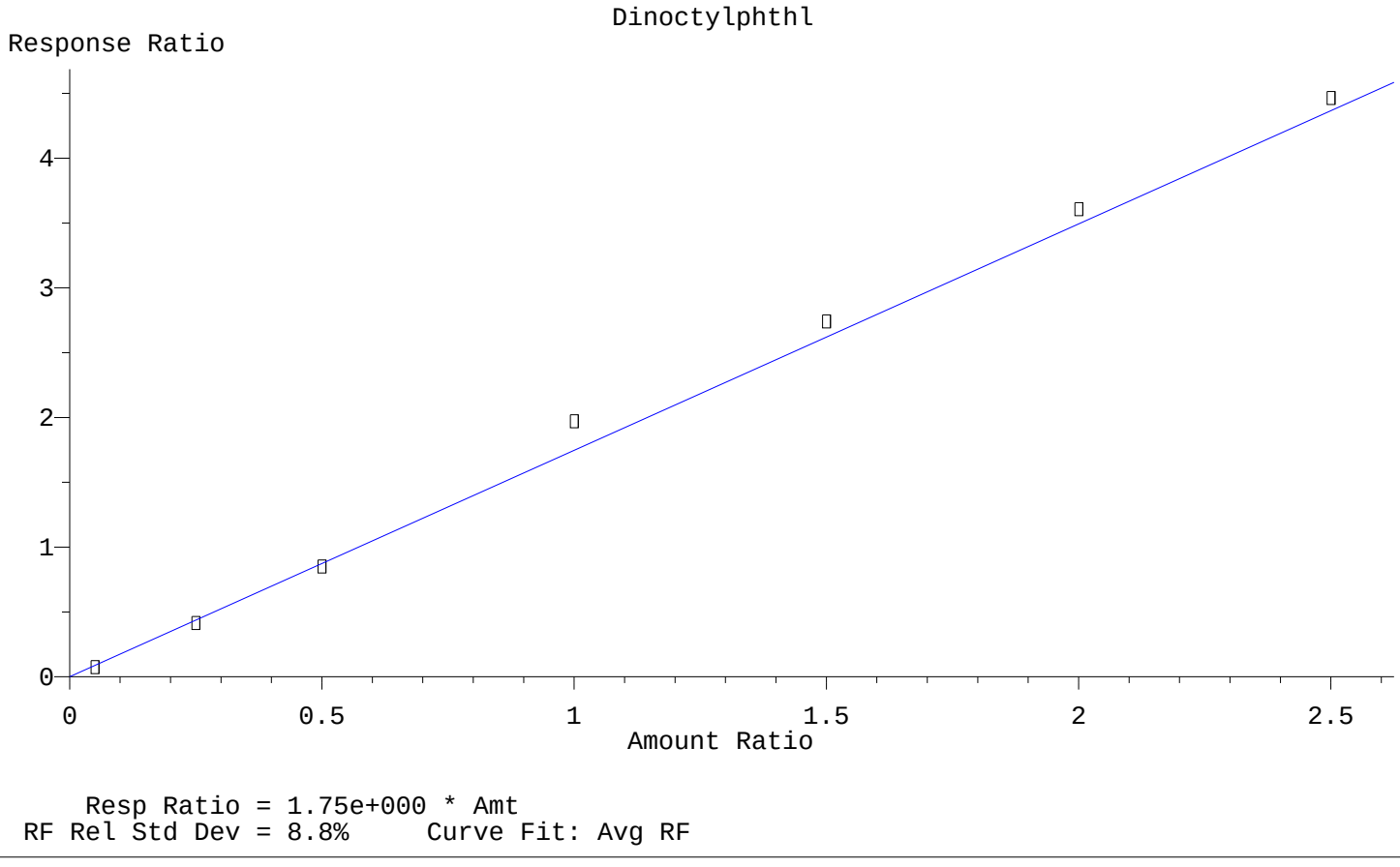
Chrysene



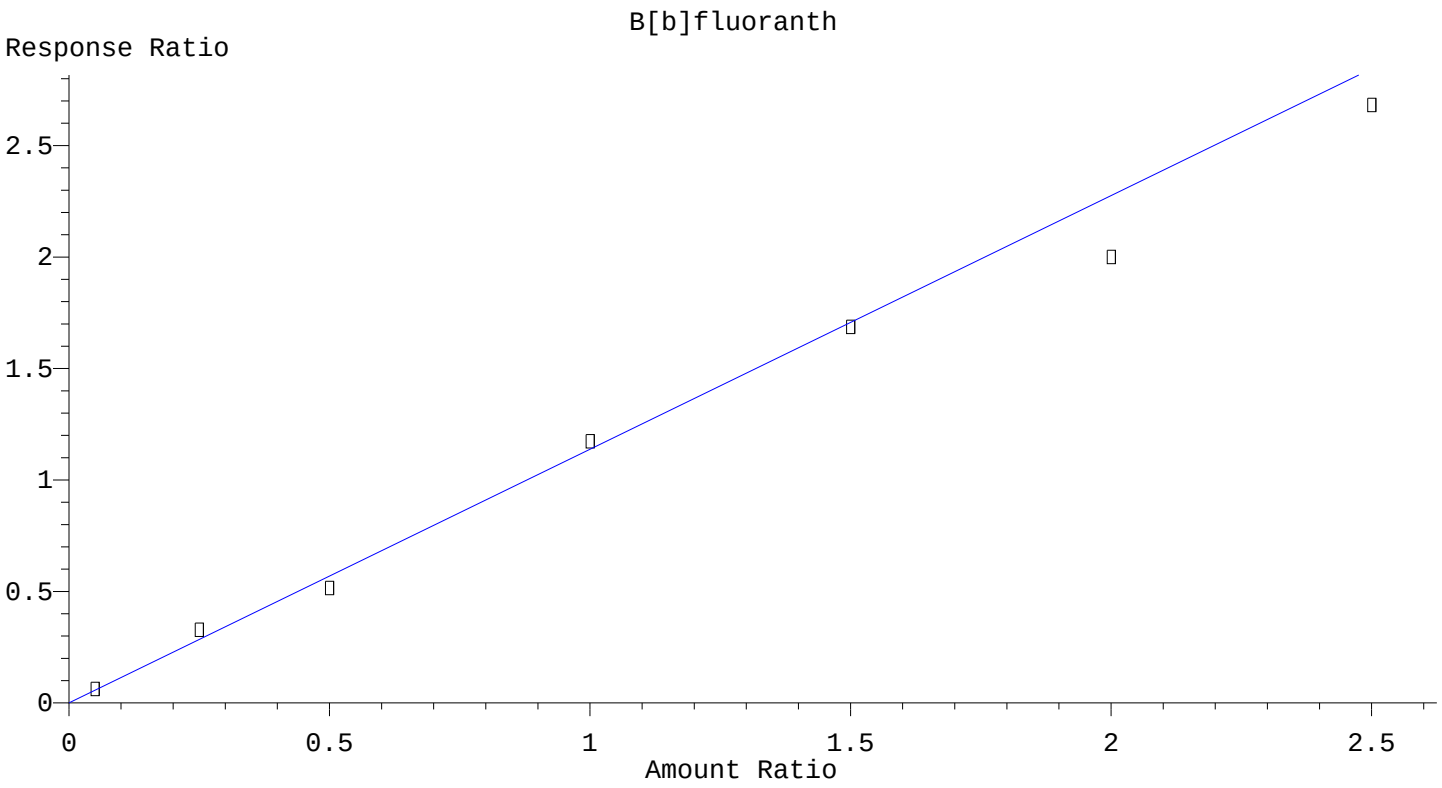
Resp Ratio = 1.05e+000 * Amt
RF Rel Std Dev = 5.8% Curve Fit: Avg RF



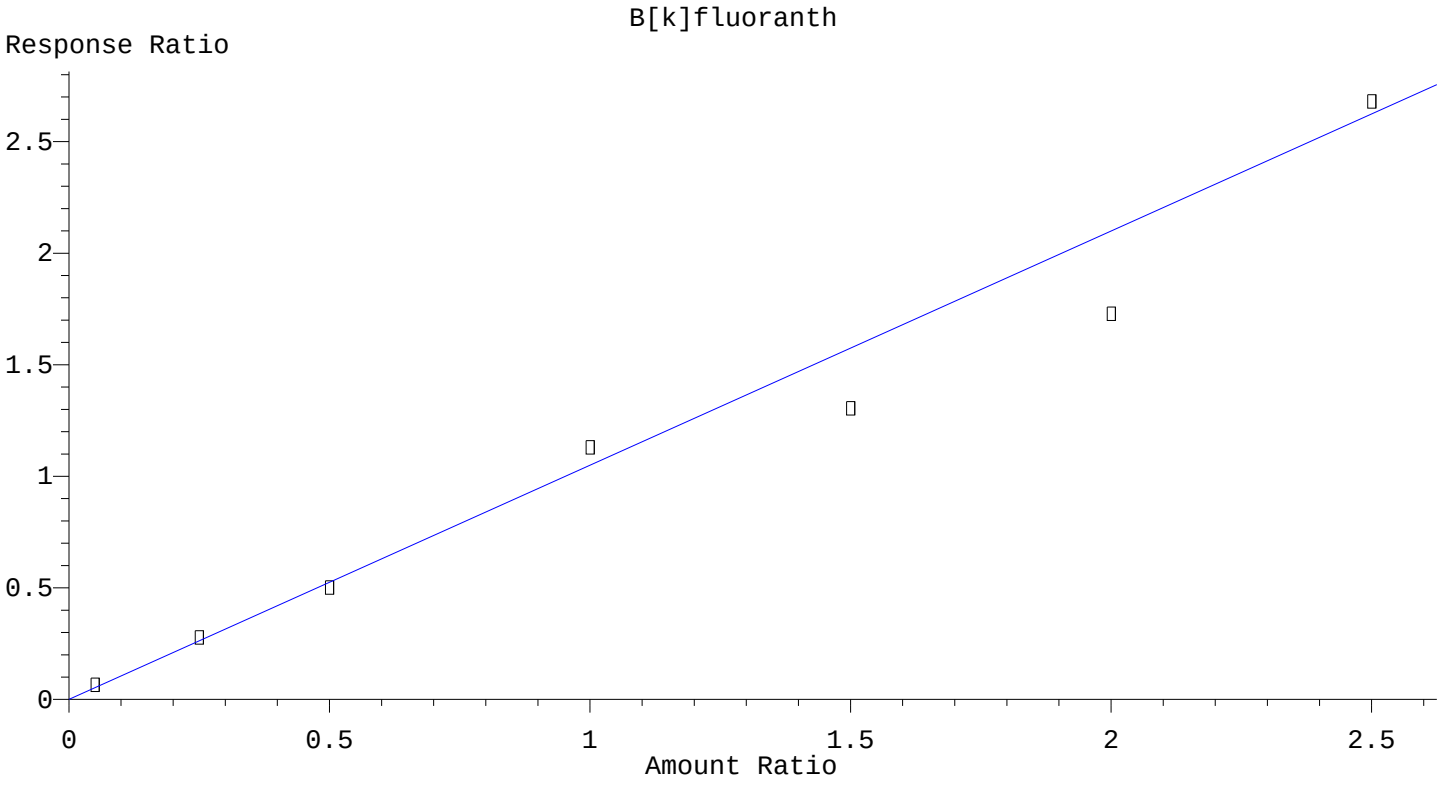
Resp Ratio = 9.40e-001 * Amt
RF Rel Std Dev = 4.8% Curve Fit: Avg RF



Resp Ratio = 1.75e+000 * Amt
RF Rel Std Dev = 8.8% Curve Fit: Avg RF

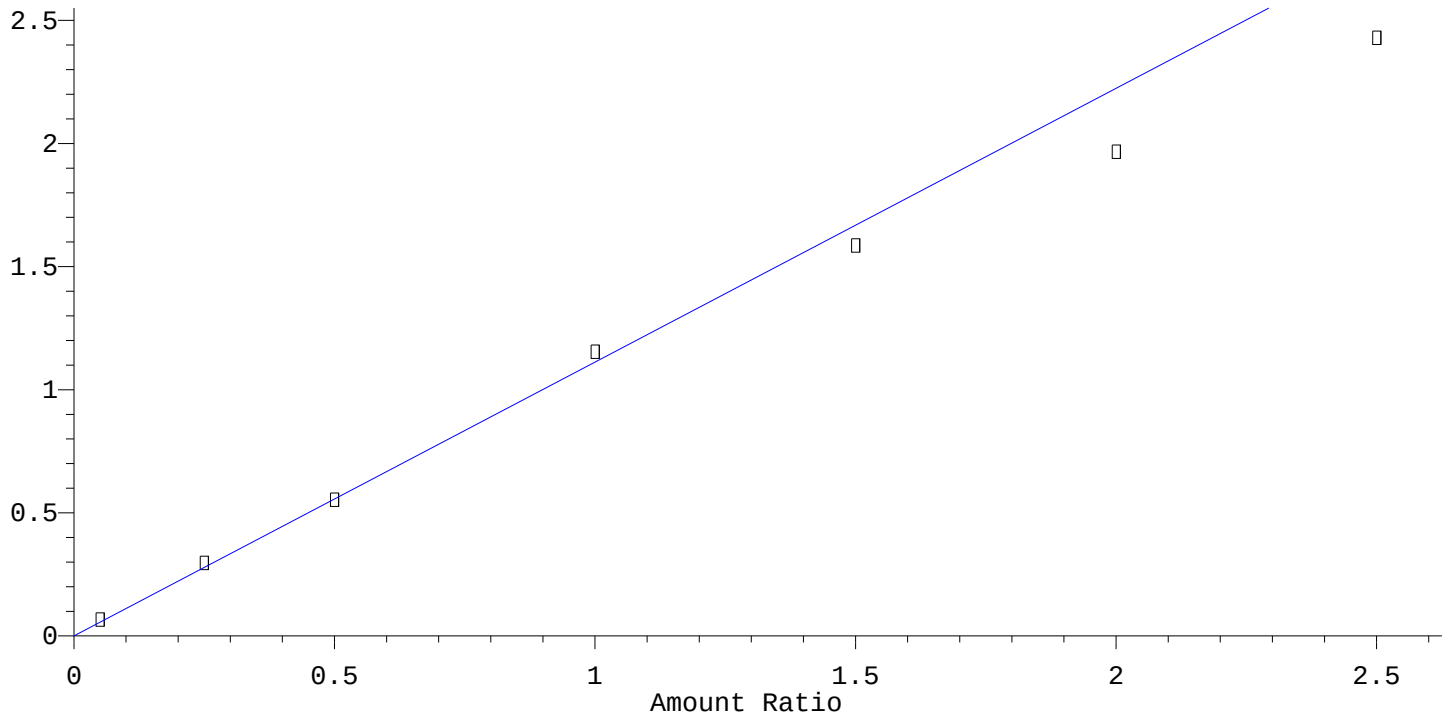


Resp Ratio = 1.14e+000 * Amt
RF Rel Std Dev = 10.1% Curve Fit: Avg RF



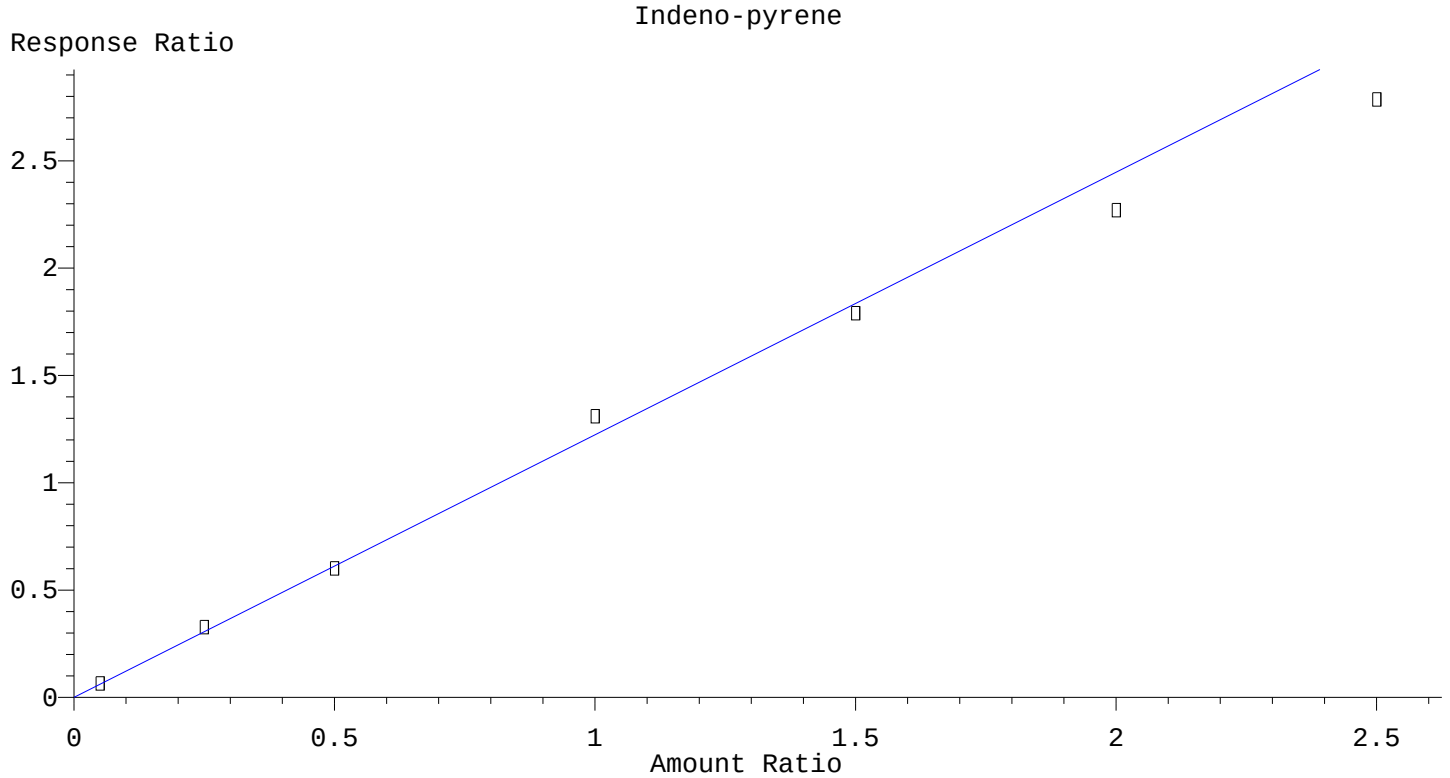
Resp Ratio = 1.05e+000 * Amt
RF Rel Std Dev = 14.6% Curve Fit: Avg RF

Benz[a]pyrene

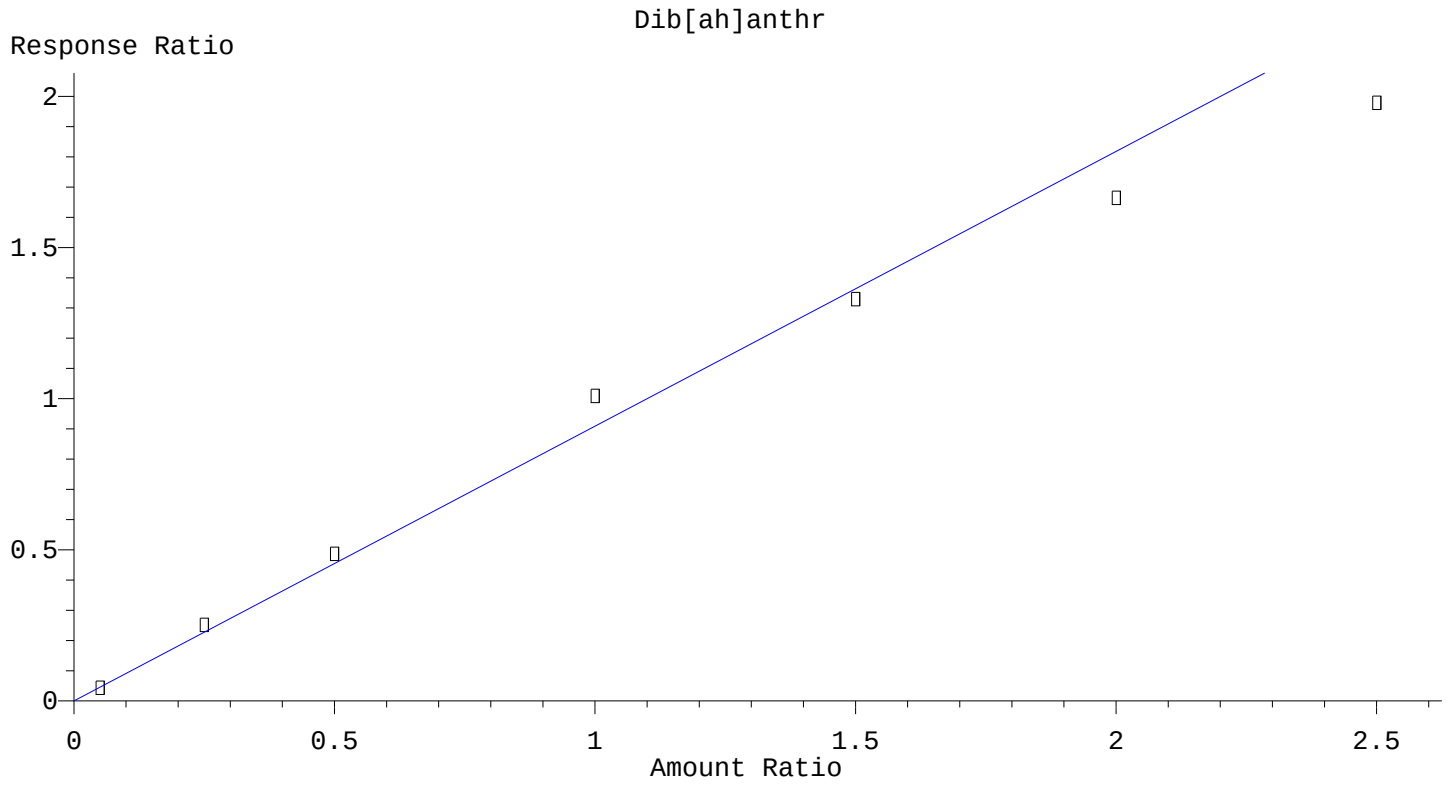


Resp Ratio = 1.11e+000 * Amt
RF Rel Std Dev = 11.2% Curve Fit: Avg RF

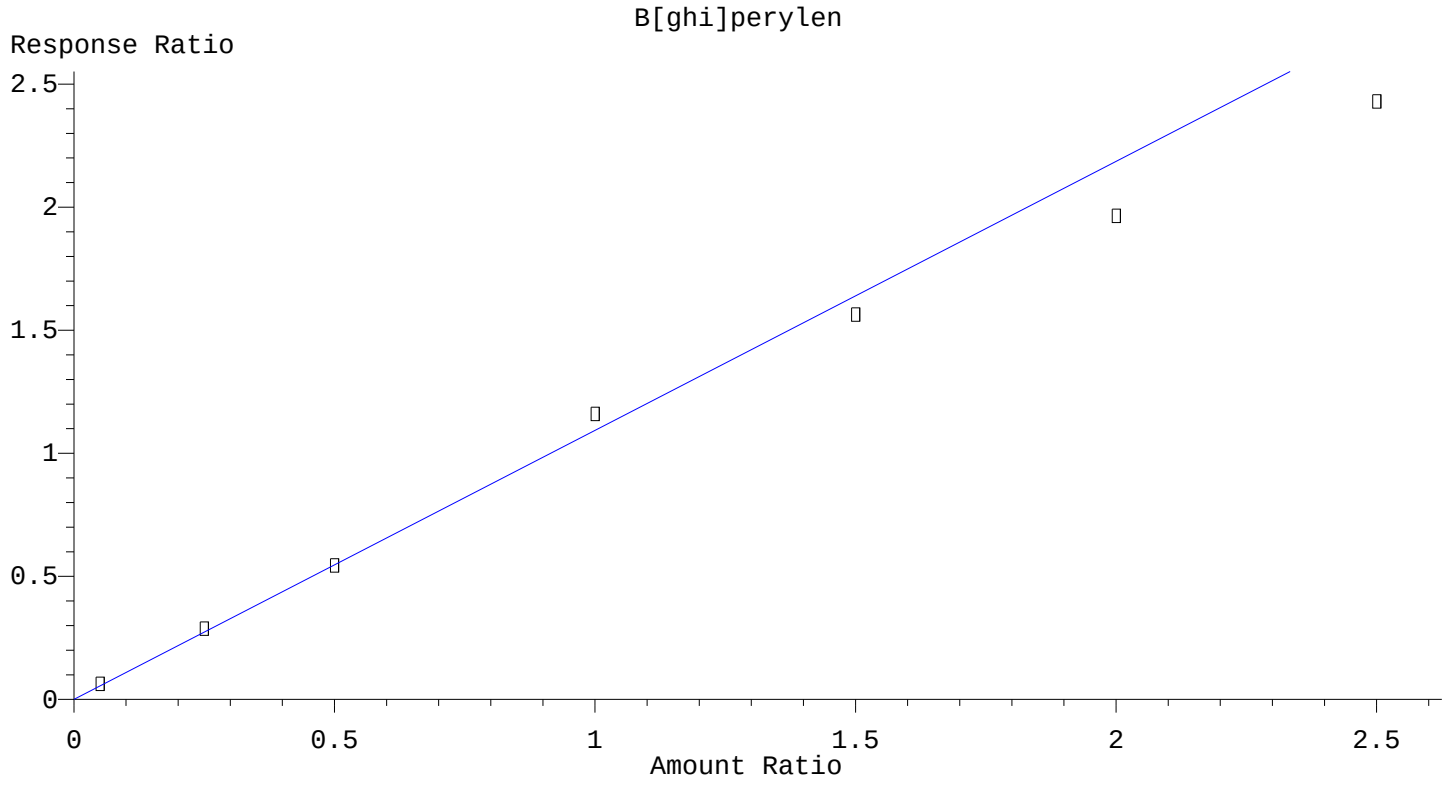
Indeno-pyrene



Resp Ratio = 1.22e+000 * Amt
RF Rel Std Dev = 6.9% Curve Fit: Avg RF



Resp Ratio = 9.09e-001 * Amt
RF Rel Std Dev = 9.5% Curve Fit: Avg RF



Resp Ratio = 1.09e+000 * Amt
RF Rel Std Dev = 9.4% Curve Fit: Avg RF

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1IB02.D Vial: 99
Acq On : 5 Aug 2013 11:45 Operator: RPN
Sample : InstrumentBlank Inst : SVMS1
Misc : 500uL+5ul IS S2810C Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 17:19:31 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

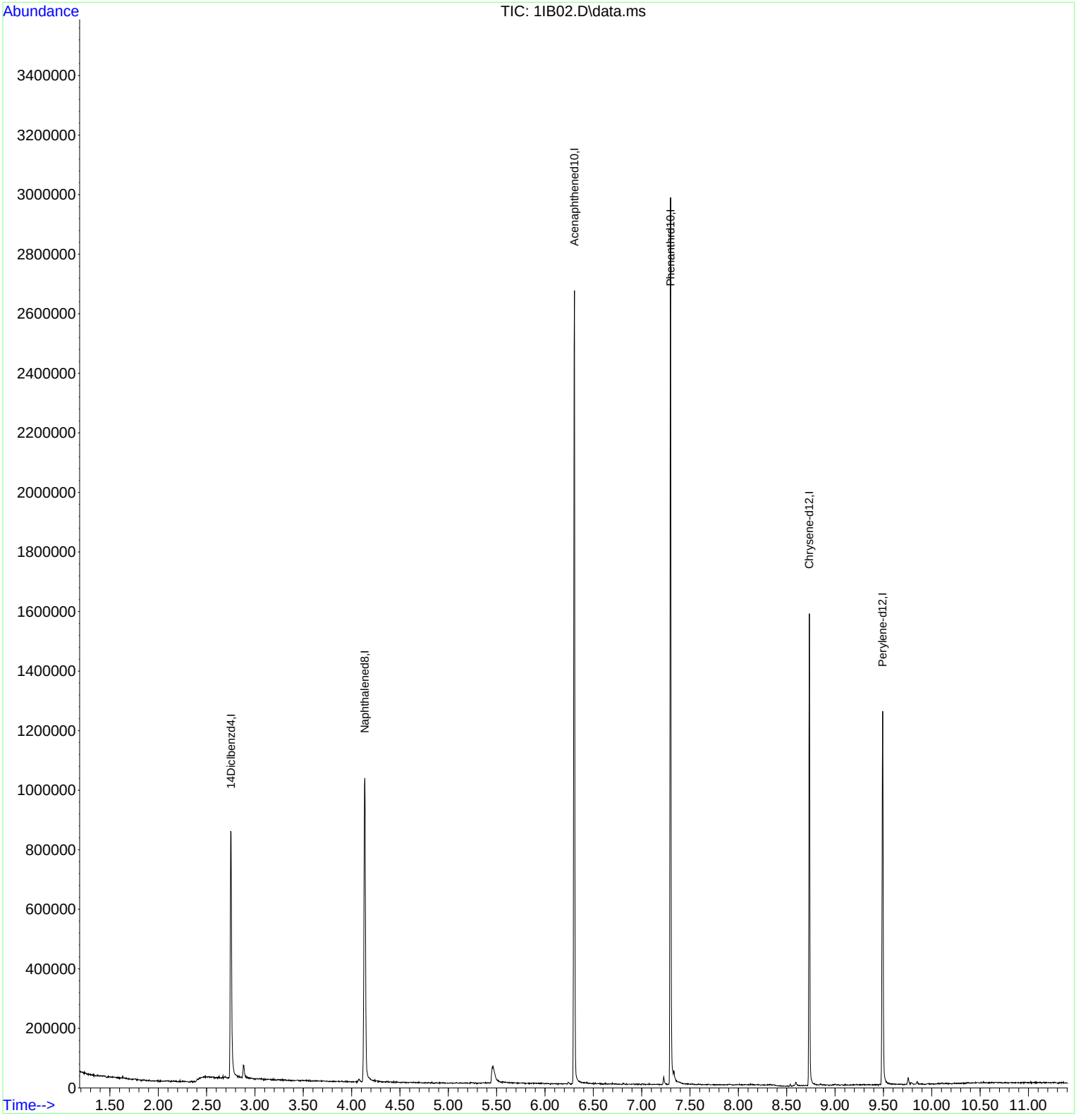
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.752	152	166534	20.00	ug/mL	0.00
21) Naphthalened8	4.136	136	651649	20.00	ug/mL	0.00
39) Acenaphthened10	6.304	164	543080	20.00	ug/mL	0.00
63) Phenanthrd10	7.299	188	850616	20.00	ug/mL	0.00
75) Chrysene-d12	8.734	240	386891	20.00	ug/mL	0.00
86) Perylene-d12	9.492	264	361589	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	0.000	112	0	0.00	%REC	
Spiked Amount 100.000	Range 20 - 110		Recovery =	0.00%#		
7) SURRPhenol-d5	0.000	99	0	0.00	%REC	
Spiked Amount 100.000	Range 10 - 115		Recovery =	0.00%#		
22) SURRNitrbenzened5	0.000	82	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 110		Recovery =	0.00%#		
44) SUR2Flbiphenyl	0.000	172	0	0.00	%REC	
Spiked Amount 100.000	Range 50 - 110		Recovery =	0.00%#		
62) SURR246Tribrphenl	0.000	330	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 125		Recovery =	0.00%#		
78) SURRTerphenyl-d14	0.000	244	0	0.00	%REC	
Spiked Amount 100.000	Range 50 - 135		Recovery =	0.00%#		
Target Compounds						Qvalue
50) Acenaphthene	6.304	154	1714	Below Cal	#	8

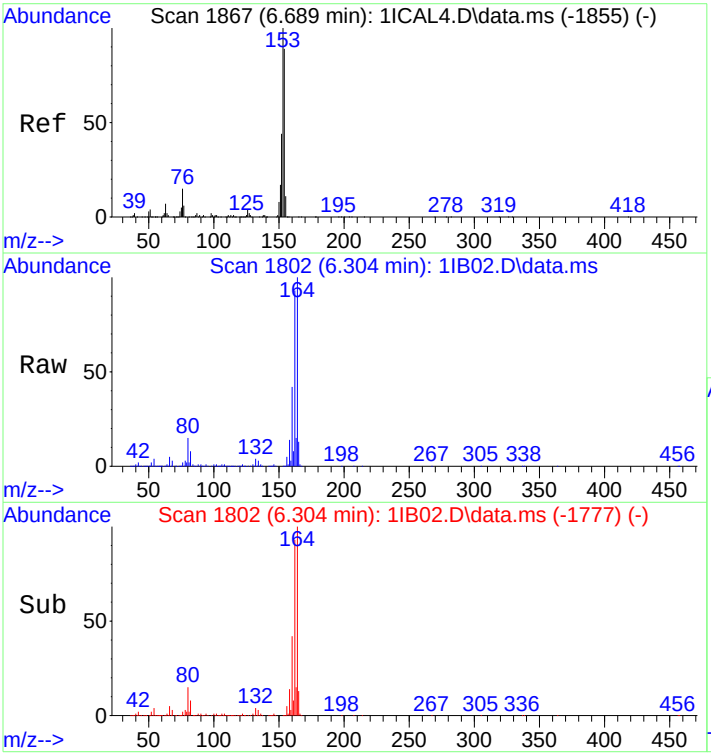
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1IB02.D Vial: 99
Acq On : 5 Aug 2013 11:45 Operator: RPN
Sample : InstrumentBlank Inst : SVMS1
Misc : 500uL+5ul IS S2810C Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 17:19:31 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

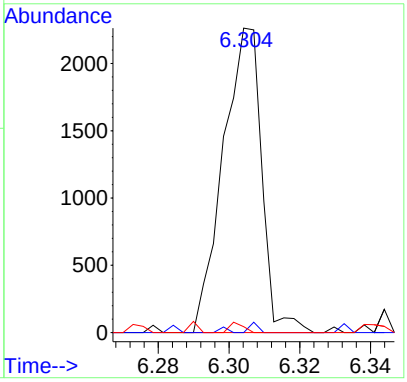




#50
Acenaphthene
Concen: Below ug/mL
RT: 6.304 min Scan# 1802
Delta R.T. -0.028 min
Lab File: 1IB02.D
Acq: 5 Aug 13 11:45 am

Tgt Ion:154 Resp: 1714

Ion	Ratio	Lower	Upper
154	100		
152	0.0	21.0	81.0#
153	1.9	87.7	127.7#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL7.D Vial: 11
Acq On : 5 Aug 2013 15:03 Operator: RPN
Sample : ICAL 50ug/ml SVMS5743 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:06:43 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:05:24 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.755	152	163129	20.00	ug/mL	0.00
21) Naphthalened8	4.145	136	617089	20.00	ug/mL	0.00
39) Acenaphthened10	6.313	164	508792	20.00	ug/mL	0.00
63) Phenanthrd10	7.304	188	750751	20.00	ug/mL	0.00
75) Chrysene-d12	8.745	240	286828	20.00	ug/mL	0.01
86) Perylene-d12	9.501	264	336552	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	594336	133.67	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 133.67%#			
7) SURRPhenol-d5	2.514	99	554987	117.01	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 117.01%#			
22) SURRNitrbenzened5	3.318	82	432268	240.39	%REC	0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 240.39%#			
44) SURR2Flbiphenyl	5.736	172	1411271	210.87	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 210.87%#			
62) SURR246Tribrphenl	6.890	330	178166	103.07	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 103.07%			
78) SURRTerphenyl-d14	8.236	244	662403	231.62	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 231.62%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.320	74	314083	52.8859	ug/mL	94
3) Pyridine	1.315	79	593138	52.9707	ug/mL	96
5) Aniline	2.502	93	694501	47.5836	ug/mL	88
6) bis2Clethletr	2.573	93	445254	45.0111	ug/mL	98
8) Phenol	2.525	94	624752	44.9279	ug/mL	96
9) 2-Cl-phenol	2.585	128	534685	45.0651	ug/mL	99
10) 13Diclbenz	2.701	146	621670	44.9490	ug/mL	95
11) 14Diclbenz	2.772	146	587987	44.9406	ug/mL	99
12) 12Diclbenz	2.897	146	597571	46.1275	ug/mL	99
13) Benzyl alcoho	2.929	108	314562	55.0147	ug/mL	96
14) bis2clispreth	3.056	45	770955	46.4221	ug/mL	93
15) 2Methylphenol	3.056	107	355421	38.6331	ug/mL	98
16) Ntrspyrrol	3.179	100	202524	47.5707	ug/mL	90
17) Acetophenone	3.176	105	614546	48.5963	ug/mL	97
18) Hexaclethane	3.221	117	212136	42.9440	ug/mL	98
19) N-Ntrsdinprop	3.213	70	267814	46.5387	ug/mL	96
20) 3&4Methylphenol	3.241	107	448349	48.7748	ug/mL	98
23) Nitrobenzene	3.341	77	409153	47.0712	ug/mL	99
24) Isophorone	3.642	82	831695	49.9946	ug/mL	98
25) 2-Nitrophenol	3.701	139	301260	49.0909	ug/mL	99
26) 24Dimthpheno	3.846	122	418343	49.3432	ug/mL	93
27) bis2clethoxym	3.960	93	568556	48.4813	ug/mL	97
28) 24Diclphenol	4.023	162	461642	47.4326	ug/mL	97
29) 124Triclbenz	4.096	180	490806	44.8689	ug/mL	100
30) Benzoic acid	4.159	122	258433	49.4300	ug/mL#	68
31) Naphthalene	4.176	128	1334415	44.9386	ug/mL	99
32) 4-Cl-aniline	4.321	127	581431	46.3872	ug/mL	98
33) 26Diclphenol	4.307	162	359052	45.1517	ug/mL	96
34) Hexaclprop	4.295	213	310277	47.0593	ug/mL	98
35) Hexaclbutdien	4.383	225	262112	44.8715	ug/mL	95
36) 4Cl3methylphe	5.119	107	551063	51.7015	ug/mL	93
37) 2Methylnaphth	5.179	142	1341125	53.2049	ug/mL	95
38) 1Methylnaphth	5.327	141	1195410	44.7964	ug/mL	99
40) Hxclcycpentdi	5.438	237	360745	48.4480	ug/mL	94

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL7.D Vial: 11
Acq On : 5 Aug 2013 15:03 Operator: RPN
Sample : ICAL 50ug/ml SVMS5743 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:06:43 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:05:24 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

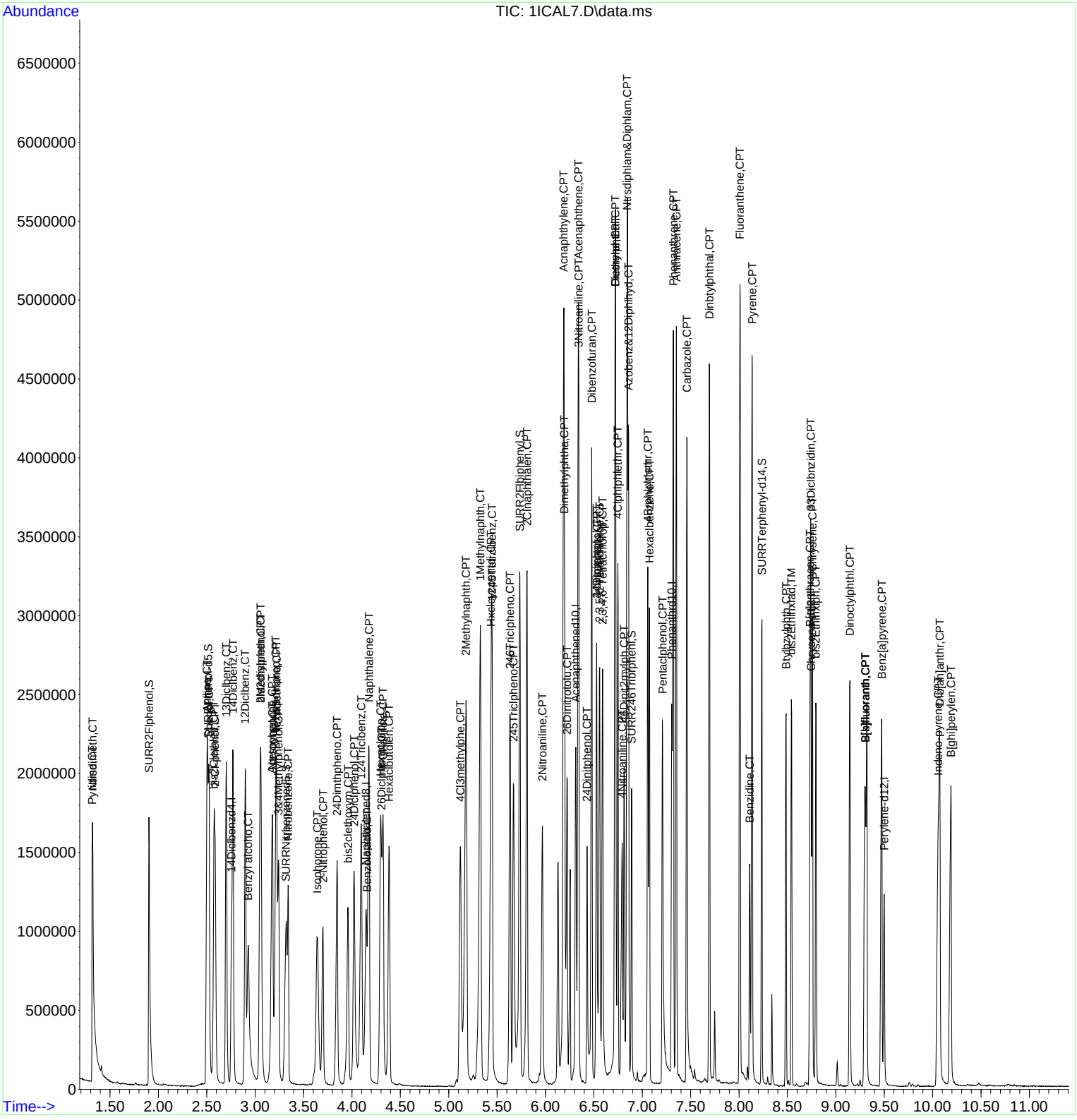
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.449	216	636871	40.7199 ug/mL	99
42) 246Triclpheno	5.634	196	473456	47.2803 ug/mL	99
43) 245Triclpheno	5.671	196	507267	47.2882 ug/mL	98
45) 2Clnaphthalen	5.810	162	1265050	41.8869 ug/mL	99
46) 2Nitroaniline	5.969	65	284789	47.6402 ug/mL	99
47) Acnaphthylene	6.188	152	1647169	52.0577 ug/mL	98
48) Dimethylphtha	6.196	163	1088454	57.0210 ug/mL	100
49) 26Dinitrotolu	6.225	165	332188	44.6925 ug/mL	98
50) Acenaphthene	6.341	154	933610	47.6938 ug/mL	100
51) 3Nitroaniline	6.344	138	279491	40.4225 ug/mL	99
52) 24Dinitphenol	6.429	184	223031	48.7895 ug/mL	94
53) Dibenzofuran	6.478	168	1601065	41.2702 ug/mL	99
54) 24Dinitrotolu	6.529	165	411437	44.1131 ug/mL	90
55) 4-Nitrophenol	6.529	139	258822	92.6798 ug/mL	93
56) 2,3,5,6-Tetrachlorop	6.560	232	347188	47.6023 ug/mL	97
57) 2,3,4,6-Tetrachlorop	6.591	232	373153	42.6976 ug/mL	96
58) Fluorene	6.722	166	1029772	53.9721 ug/mL	99
59) 4Clphlphlethr	6.747	204	547673	51.9460 ug/mL	97
60) Diethylphthal	6.722	149	1039866	54.8892 ug/mL	99
61) 4Nitroaniline	6.793	138	351540	51.2688 ug/mL	99
64) 46Dinit2mylph	6.813	198	247520	48.1901 ug/mL	92
65) Ntrsdiphlam&Diphlam	6.844	169	1098321	111.1603 ug/mL	99
66) Azobenz&12Diphlhyd	6.858	182	404071	101.0365 ug/mL#	86
67) 4Brphlphlethr	7.057	248	342637	40.8665 ug/mL	98
68) Hexaclbenzene	7.074	284	341386	38.3555 ug/mL	96
69) Pentaclphenol	7.211	266	290178	52.1684 ug/mL	95
70) Phenanthrene	7.321	178	1529829	39.7840 ug/mL	100
71) Anthracene	7.353	178	1561893	38.9987 ug/mL	99
72) Carbazole	7.461	167	1649150	43.6927 ug/mL	99
73) Dinbtylphthal	7.694	149	2139917	41.7351 ug/mL	100
74) Fluoranthene	8.009	202	1845883	40.8349 ug/mL	98
76) Benzidine	8.111	184	480815	45.5792 ug/mL	98
77) Pyrene	8.137	202	1554359	43.0662 ug/mL	98
79) Btylbzylphth	8.486	149	509364	50.3909 ug/mL	95
80) bis2Ethlhxlad	8.540	129	376211	45.8247 ug/mL	99
81) 33Diclbnzidin	8.742	252	218777	50.1743 ug/mL	92
82) B[a]anthracen	8.734	228	826821	50.7543 ug/mL	99
83) Chrysene	8.759	228	703992	46.4807 ug/mL	99
84) bis2Ethlhxlph	8.793	149	647868	48.0847 ug/mL	99
85) Dinoctylphthl	9.146	149	1280221	51.1210 ug/mL	100
87) B[b]fluoranth	9.305	252	902613	47.1231 ug/mL	97
88) B[k]fluoranth	9.305	252	902027	51.0537 ug/mL	98
89) Benz[a]pyrene	9.475	252	817561	43.6845 ug/mL	98
90) Indeno-pyrene	10.058	276	937556	45.5032 ug/mL	99
91) Dib[ah]anthr	10.075	278	665828	43.5030 ug/mL	96
92) B[ghi]perylen	10.191	276	817679	44.3306 ug/mL	97

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL7.D Vial: 11
Acq On : 5 Aug 2013 15:03 Operator: RPN
Sample : ICAL 50ug/ml SVMS5743 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:06:43 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:05:24 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL6.D Vial: 12
Acq On : 5 Aug 2013 15:21 Operator: RPN
Sample : ICAL 40ug/ml SVMS5742 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:08:25 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:07:02 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.755	152	165502	20.00	ug/mL	0.00
21) Naphthalened8	4.145	136	614175	20.00	ug/mL	0.00
39) Acenaphthened10	6.310	164	489841	20.00	ug/mL	0.00
63) Phenanthrd10	7.304	188	746173	20.00	ug/mL	0.00
75) Chrysene-d12	8.742	240	290154	20.00	ug/mL	0.00
86) Perylene-d12	9.501	264	339373	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	484222	107.34	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 107.34%			
7) SURRPhenol-d5	2.508	99	466513	96.94	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 96.94%			
22) SURRNitrbenzened5	3.315	82	351749	196.54	%REC	0.01
Spiked Amount 100.000	Range 40 - 110		Recovery = 196.54%#			
44) SURR2Flbiphenyl	5.733	172	1123598	174.38	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 174.38%#			
62) SURR246Tribrphenl	6.887	330	146596	88.09	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 88.09%			
78) SURRTerphenyl-d14	8.233	244	536090	185.31	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 185.31%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.320	74	257961	42.8132	ug/mL	95
3) Pyridine	1.312	79	496508	43.7053	ug/mL	93
5) Aniline	2.499	93	584220	39.4538	ug/mL	87
6) bis2Clethletr	2.570	93	377115	37.5763	ug/mL	97
8) Phenol	2.519	94	537797	38.1201	ug/mL	98
9) 2-Cl-phenol	2.585	128	461719	38.3573	ug/mL	97
10) 13Diclbenz	2.701	146	520462	37.0917	ug/mL	98
11) 14Diclbenz	2.769	146	492008	37.0656	ug/mL	99
12) 12Diclbenz	2.897	146	498190	37.9047	ug/mL	99
13) Benzyl alcoho	2.926	108	251204	43.3039	ug/mL	97
14) bis2clispreth	3.056	45	630422	37.4158	ug/mL	92
15) 2Methylphenol	3.054	107	299342	32.0709	ug/mL	96
16) Ntrspyrrol	3.173	100	167863	38.8638	ug/mL	91
17) Acetophenone	3.173	105	503575	39.2501	ug/mL	100
18) Hexaclethane	3.218	117	180068	35.9296	ug/mL	95
19) N-Ntrsdinprop	3.207	70	224500	38.4526	ug/mL	94
20) 3&4Methylphenol	3.235	107	366926	39.3446	ug/mL	97
23) Nitrobenzene	3.338	77	333232	38.5188	ug/mL	98
24) Isophorone	3.639	82	663723	40.0868	ug/mL	98
25) 2-Nitrophenol	3.699	139	249659	40.8755	ug/mL	98
26) 24Dimthpheno	3.843	122	354228	41.9791	ug/mL	97
27) bis2clethoxym	3.954	93	463018	39.6693	ug/mL	96
28) 24Diclphenol	4.017	162	382878	39.5264	ug/mL	96
29) 124Triclbenz	4.093	180	399434	36.6891	ug/mL	98
30) Benzoic acid	4.156	122	209728	40.3046	ug/mL	81
31) Naphthalene	4.173	128	1099010	37.1866	ug/mL	99
32) 4-Cl-aniline	4.318	127	485423	38.9113	ug/mL	98
33) 26Diclphenol	4.307	162	302303	38.1958	ug/mL	98
34) Hexaclprop	4.295	213	260844	39.7495	ug/mL	98
35) Hexaclbutdien	4.383	225	219327	37.7252	ug/mL	96
36) 4Cl3methylphe	5.116	107	443578	41.8145	ug/mL	98
37) 2Methylnaphth	5.176	142	1107183	44.1324	ug/mL	97
38) 1Methylnaphth	5.324	141	954545	35.9400	ug/mL	98
40) Hxclcycpentdi	5.437	237	300153	41.8700	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL6.D Vial: 12
Acq On : 5 Aug 2013 15:21 Operator: RPN
Sample : ICAL 40ug/ml SVMS5742 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:08:25 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:07:02 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

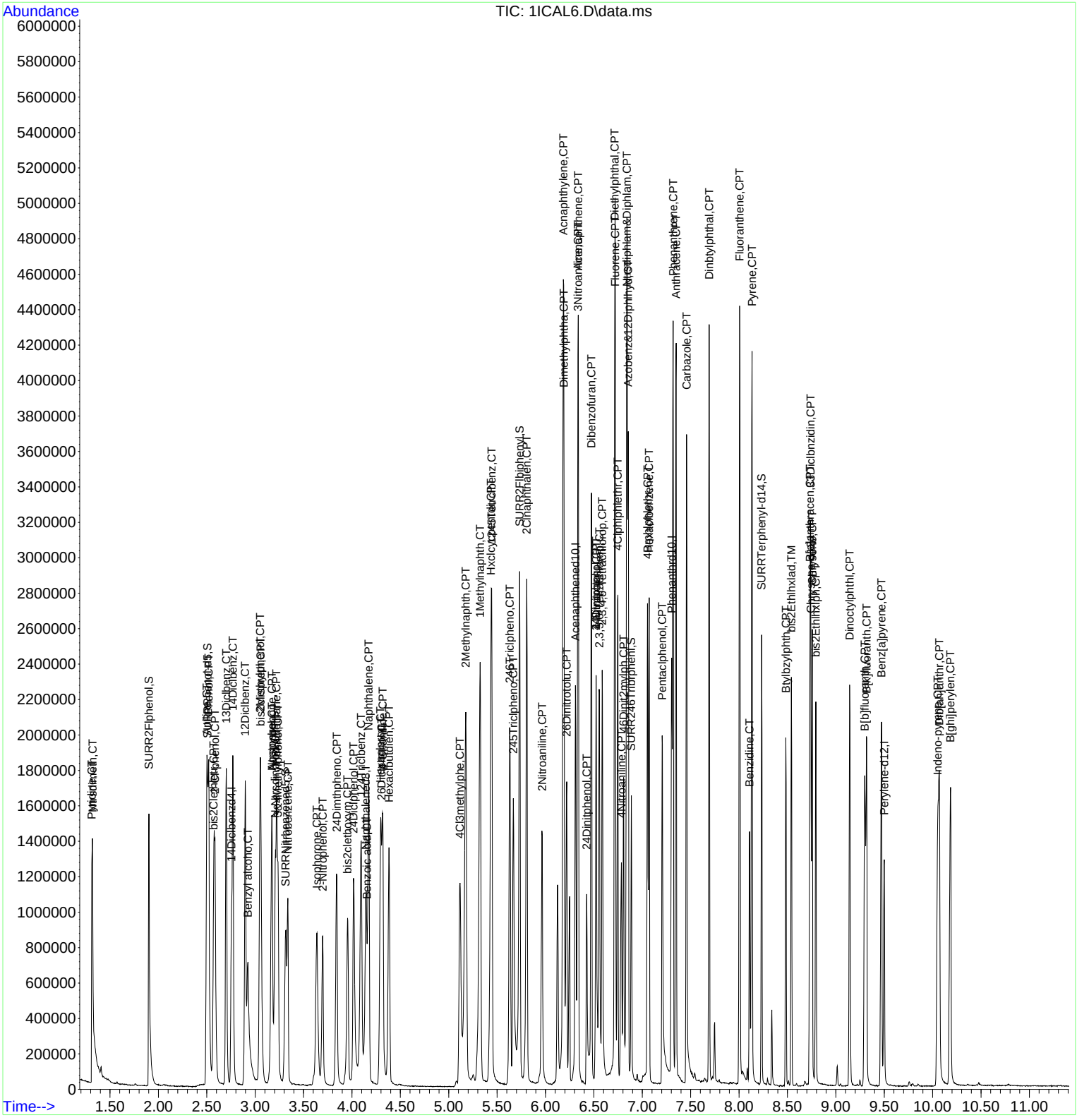
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.443	216	525528	34.9009	ug/mL	99
42) 246Triclpheno	5.631	196	380063	39.4223	ug/mL	99
43) 245Triclpheno	5.668	196	420847	40.7498	ug/mL	98
45) 2Clnaphthalen	5.807	162	1045761	35.9657	ug/mL	99
46) 2Nitroaniline	5.966	65	236527	41.0976	ug/mL	98
47) Acnaphthylene	6.185	152	1358719	39.3498	ug/mL	99
48) Dimethylphtha	6.190	163	880578	38.1684	ug/mL	99
49) 26Dinitrotolu	6.219	165	259621	36.2807	ug/mL	95
50) Acenaphthene	6.338	154	777394	35.8737	ug/mL	97
51) 3Nitroaniline	6.335	138	231043	34.7083	ug/mL	99
52) 24Dinitphenol	6.426	184	184676	41.0949	ug/mL	97
53) Dibenzofuran	6.475	168	1320037	35.3427	ug/mL	98
54) 24Dinitrotolu	6.523	165	330129	36.7649	ug/mL	90
55) 4-Nitrophenol	6.523	139	205084	72.9582	ug/mL	93
56) 2,3,5,6-Tetrachlorop	6.557	232	280353	39.9258	ug/mL	96
57) 2,3,4,6-Tetrachlorop	6.585	232	305086	36.2597	ug/mL	95
58) Fluorene	6.719	166	852330	38.3739	ug/mL	99
59) 4Clphlphlethr	6.747	204	447011	38.1387	ug/mL	98
60) Diethylphthal	6.716	149	861473	38.4369	ug/mL	99
61) 4Nitroaniline	6.784	138	278700	42.2182	ug/mL	99
64) 46Dinit2mylph	6.807	198	203013	39.7675	ug/mL	93
65) Ntrsdiphlam&Diphlam	6.841	169	949395	76.6824	ug/mL	99
66) Azobenz&12Diphlhyd	6.855	182	354891	79.7968	ug/mL	93
67) 4Brphlphlethr	7.054	248	289564	34.7484	ug/mL	98
68) Hexaclbenzene	7.071	284	288374	32.5982	ug/mL	98
69) Pentaclphenol	7.208	266	233150	42.1730	ug/mL	97
70) Phenanthrene	7.319	178	1285914	33.6460	ug/mL	100
71) Anthracene	7.350	178	1339054	33.6398	ug/mL	100
72) Carbazole	7.458	167	1333988	35.5596	ug/mL	98
73) Dinbtylphthal	7.691	149	1737246	34.0896	ug/mL	100
74) Fluoranthene	8.006	202	1561387	34.7532	ug/mL	99
76) Benzidine	8.108	184	460824	43.1834	ug/mL	98
77) Pyrene	8.134	202	1325251	36.2974	ug/mL	98
79) Btylbzylphth	8.483	149	391431	38.2801	ug/mL	98
80) bis2Ethlhxlad	8.540	129	314744	37.8982	ug/mL	100
81) 33Diclbnzidin	8.739	252	172120	39.0215	ug/mL	96
82) B[a]anthracen	8.734	228	652411	39.5891	ug/mL	99
83) Chrysene	8.756	228	576083	37.5996	ug/mL	99
84) bis2Ethlhxlph	8.793	149	544131	39.9224	ug/mL	96
85) Dinoctylphthl	9.143	149	1046568	41.3119	ug/mL	99
87) B[b]fluoranth	9.299	252	678821	35.1449	ug/mL	99
88) B[k]fluoranth	9.319	252	586550	32.9221	ug/mL	99
89) Benz[a]pyrene	9.472	252	667413	35.3652	ug/mL	99
90) Indeno-pyrene	10.052	276	770181	37.0691	ug/mL	97
91) Dib[ah]anthr	10.069	278	564740	36.5916	ug/mL	98
92) B[ghi]perylen	10.185	276	666813	35.8508	ug/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL6.D Vial: 12
Acq On : 5 Aug 2013 15:21 Operator: RPN
Sample : ICAL 40ug/ml SVMS5742 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:08:25 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:07:02 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL5.D Vial: 13
Acq On : 5 Aug 2013 15:39 Operator: RPN
Sample : ICAL 30ug/ml SVMS5741 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:08:57 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:08:49 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.752	152	180971	20.00	ug/mL	0.00
21) Naphthalened8	4.145	136	700561	20.00	ug/mL	0.00
39) Acenaphthened10	6.310	164	550873	20.00	ug/mL	0.00
63) Phenanthrd10	7.304	188	833612	20.00	ug/mL	0.00
75) Chrysene-d12	8.742	240	335760	20.00	ug/mL	0.00
86) Perylene-d12	9.498	264	378019	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	405086	82.12	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 82.12%			
7) SURRPhenol-d5	2.505	99	395790	75.22	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 75.22%			
22) SURRNitrbenzened5	3.312	82	307382	150.49	%REC	0.01
Spiked Amount 100.000	Range 40 - 110		Recovery = 150.49%#			
44) SURR2Flbiphenyl	5.733	172	1012310	139.72	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 139.72%#			
62) SURR246Tribrphenl	6.887	330	132187	70.91	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 70.91%			
78) SURRTerphenyl-d14	8.233	244	482496	144.20	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 144.20%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.317	74	213561	32.4145	ug/mL	99
3) Pyridine	1.315	79	396935	31.9537	ug/mL	95
5) Aniline	2.499	93	505913	31.2452	ug/mL	86
6) bis2Clethletr	2.570	93	320886	29.2439	ug/mL	96
8) Phenol	2.517	94	457385	29.6397	ug/mL	99
9) 2-Cl-phenol	2.582	128	388622	29.5251	ug/mL	97
10) 13Diclbenz	2.698	146	454096	29.5958	ug/mL	96
11) 14Diclbenz	2.769	146	424004	29.2121	ug/mL	98
12) 12Diclbenz	2.897	146	429629	29.8942	ug/mL	98
13) Benzyl alcoho	2.923	108	214719	33.8505	ug/mL	96
14) bis2clispreth	3.054	45	548020	29.7452	ug/mL	89
15) 2Methylphenol	3.051	107	269141	26.9179	ug/mL	98
16) Ntrspyrrol	3.170	100	150079	31.7838	ug/mL	97
17) Acetophenone	3.173	105	438298	31.2466	ug/mL	99
18) Hexaclethane	3.218	117	154602	28.2126	ug/mL	94
19) N-Ntrsdinprop	3.204	70	195175	30.5755	ug/mL	98
20) 3&4Methylphenol	3.233	107	313778	30.5427	ug/mL	95
23) Nitrobenzene	3.335	77	288782	29.2676	ug/mL	99
24) Isophorone	3.633	82	576680	30.5376	ug/mL	98
25) 2-Nitrophenol	3.696	139	214437	30.7507	ug/mL	99
26) 24Dimthpheno	3.838	122	305822	31.4356	ug/mL	93
27) bis2clethoxym	3.954	93	400453	30.0811	ug/mL	98
28) 24Diclphenol	4.014	162	330847	29.9451	ug/mL	98
29) 124Triclbenz	4.093	180	353012	28.4277	ug/mL	99
30) Benzoic acid	4.128	122	182670	31.3562	ug/mL	89
31) Naphthalene	4.170	128	968979	28.7463	ug/mL	100
32) 4-Cl-aniline	4.315	127	418608	29.4245	ug/mL	97
33) 26Diclphenol	4.304	162	259255	28.7191	ug/mL	97
34) Hexaclprop	4.292	213	222446	29.7295	ug/mL	98
35) Hexaclbutdien	4.380	225	190232	28.6995	ug/mL	98
36) 4Cl3methylphe	5.114	107	384916	31.7743	ug/mL	98
37) 2Methylnaphth	5.176	142	997534	33.9257	ug/mL	100
38) 1Methylnaphth	5.321	141	854735	28.2151	ug/mL	99
40) Hxclcycpentdi	5.435	237	268887	33.3797	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL5.D Vial: 13
Acq On : 5 Aug 2013 15:39 Operator: RPN
Sample : ICAL 30ug/ml SVMS5741 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:08:57 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:08:49 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

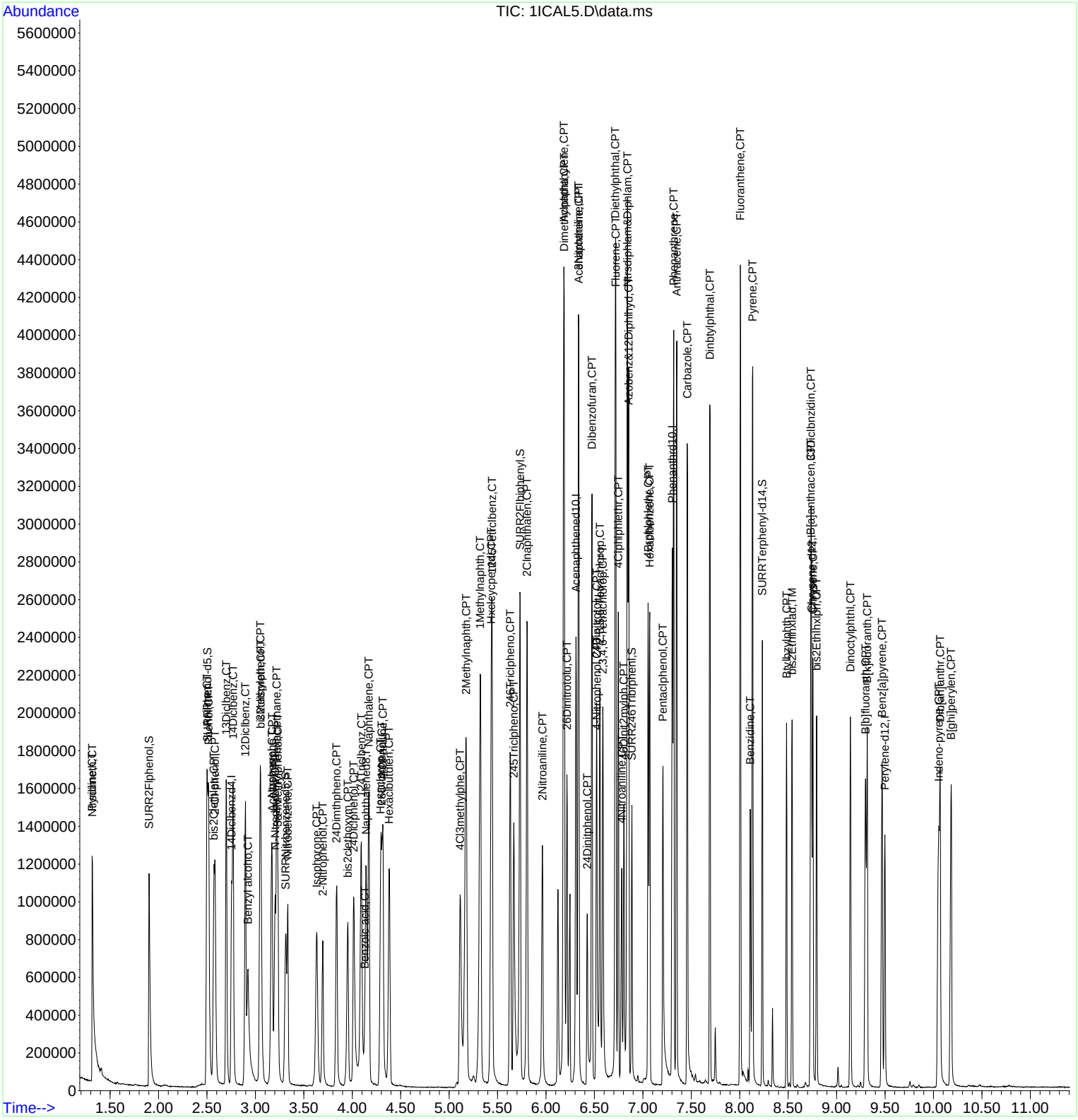
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.443	216	475446	28.0788	ug/mL	99
42) 246Triclpheno	5.631	196	332736	30.6936	ug/mL	100
43) 245Triclpheno	5.668	196	369050	31.8160	ug/mL	99
45) 2Clnaphthalen	5.804	162	920303	28.1478	ug/mL	98
46) 2Nitroaniline	5.963	65	213221	32.9533	ug/mL	99
47) Acnaphthylene	6.185	152	1207965	28.1432	ug/mL	99
48) Dimethylphtha	6.188	163	794674	27.3314	ug/mL	100
49) 26Dinitrotolu	6.216	165	228252	28.3667	ug/mL	96
50) Acenaphthene	6.338	154	698007	26.3022	ug/mL	98
51) 3Nitroaniline	6.335	138	204476	27.3221	ug/mL	99
52) 24Dinitphenol	6.426	184	158203	30.7672	ug/mL	98
53) Dibenzofuran	6.475	168	1155453	27.5117	ug/mL	98
54) 24Dinitrotolu	6.523	165	305838	30.2900	ug/mL	94
55) 4-Nitrophenol	6.526	139	187260	51.3825	ug/mL	99
56) 2,3,5,6-Tetrachlorop	6.557	232	248704	31.4941	ug/mL	97
57) 2,3,4,6-Tetrachlorop	6.588	232	270040	28.4670	ug/mL	96
58) Fluorene	6.719	166	791693	28.5518	ug/mL	99
59) 4Clphlphlethr	6.747	204	424452	29.7731	ug/mL	95
60) Diethylphthal	6.716	149	785356	27.7679	ug/mL	99
61) 4Nitroaniline	6.782	138	248855	33.5510	ug/mL	97
64) 46Dinit2mylph	6.804	198	183826	32.2234	ug/mL	94
65) Ntrsdiphlam&Diphlam	6.841	169	873931	56.1322	ug/mL	98
66) Azobenz&12Diphlhyd	6.855	182	321840	58.4706	ug/mL#	78
67) 4Brphlphlethr	7.054	248	261258	28.0631	ug/mL	98
68) Hexaclbenzene	7.071	284	266893	27.0077	ug/mL	98
69) Pentaclphenol	7.208	266	205541	33.2391	ug/mL	99
70) Phenanthrene	7.319	178	1160181	27.1737	ug/mL	99
71) Anthracene	7.350	178	1193875	26.8468	ug/mL	100
72) Carbazole	7.458	167	1191558	28.4312	ug/mL	99
73) Dinbtylphthal	7.691	149	1614882	28.3646	ug/mL	100
74) Fluoranthene	8.006	202	1406069	28.0134	ug/mL	98
76) Benzidine	8.108	184	459866	37.2329	ug/mL	99
77) Pyrene	8.134	202	1211000	28.6812	ug/mL	99
79) Btylbzylphth	8.484	149	365887	30.9402	ug/mL	99
80) bis2Ethlhxlad	8.540	129	289533	30.1443	ug/mL	100
81) 33Diclbnzidin	8.736	252	145949	28.6111	ug/mL	96
82) B[a]anthracen	8.734	228	573869	30.1158	ug/mL	98
83) Chrysene	8.756	228	515981	29.1219	ug/mL	99
84) bis2Ethlhxlph	8.793	149	481246	30.5340	ug/mL	99
85) Dinoctylphthl	9.143	149	920360	31.4180	ug/mL	100
87) B[b]fluoranth	9.299	252	637610	29.6379	ug/mL	99
88) B[k]fluoranth	9.316	252	493020	24.8447	ug/mL	99
89) Benz[a]pyrene	9.470	252	599450	28.5176	ug/mL	98
90) Indeno-pyrene	10.055	276	676504	29.2327	ug/mL	98
91) Dib[ah]anthr	10.069	278	502458	29.2288	ug/mL	95
92) B[ghi]perylen	10.183	276	591013	28.5399	ug/mL	98

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL5.D Vial: 13
Acq On : 5 Aug 2013 15:39 Operator: RPN
Sample : ICAL 30ug/ml SVMS5741 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:08:57 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:08:49 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL4.D Vial: 14
Acq On : 5 Aug 2013 15:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5740 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:09:53 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:09:19 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.752	152	158654	20.00	ug/mL	0.00
21) Naphthalened8	4.139	136	591736	20.00	ug/mL	0.00
39) Acenaphthened10	6.307	164	467252	20.00	ug/mL	0.00
63) Phenanthrd10	7.302	188	738263	20.00	ug/mL	0.00
75) Chrysene-d12	8.739	240	298144	20.00	ug/mL	0.00
86) Perylene-d12	9.495	264	321526	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	242868	56.16	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 56.16%			
7) SURRPhenol-d5	2.502	99	244189	52.93	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 52.93%			
22) SURRNitrbenzened5	3.306	82	183153	106.17	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 106.17%			
44) SURR2Flbiphenyl	5.727	172	645134	104.94	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 104.94%			
62) SURR246Tribrphenl	6.881	330	82541	52.40	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 52.40%			
78) SURRTerphenyl-d14	8.231	244	313799	105.60	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 105.60%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.317	74	124670	21.5843	ug/mL	100
3) Pyridine	1.315	79	225119	20.6602	ug/mL	100
5) Aniline	2.497	93	300615	21.1775	ug/mL	100
6) bis2Clethletr	2.568	93	198274	20.6336	ug/mL	100
8) Phenol	2.514	94	284423	21.0139	ug/mL	100
9) 2-Cl-phenol	2.582	128	239870	20.7873	ug/mL	100
10) 13Diclbenz	2.698	146	273967	20.3675	ug/mL	100
11) 14Diclbenz	2.767	146	265081	20.8319	ug/mL	100
12) 12Diclbenz	2.897	146	260920	20.7089	ug/mL	100
13) Benzyl alcoho	2.917	108	124124	22.3207	ug/mL	100
14) bis2clispreth	3.053	45	326277	20.2011	ug/mL	100
15) 2Methylphenol	3.048	107	154037	17.9839	ug/mL	100
16) Ntrspyrrol	3.159	100	91575	22.1169	ug/mL	100
17) Acetophenone	3.164	105	265995	21.6308	ug/mL	100
18) Hexaclethane	3.218	117	98397	20.4815	ug/mL	100
19) N-Ntrsdinprop	3.196	70	116954	20.8989	ug/mL	100
20) 3&4Methylphenol	3.221	107	192387	21.2332	ug/mL	100
23) Nitrobenzene	3.329	77	174920	20.9888	ug/mL	100
24) Isophorone	3.622	82	328940	20.6220	ug/mL	100
25) 2-Nitrophenol	3.693	139	127836	21.7067	ug/mL	100
26) 24Dimthpheno	3.832	122	173853	20.9616	ug/mL	100
27) bis2clethoxym	3.949	93	244039	21.7046	ug/mL	100
28) 24Diclphenol	4.011	162	200345	21.4677	ug/mL	100
29) 124Triclbenz	4.091	180	221206	21.0894	ug/mL	100
30) Benzoic acid	4.094	122	105299	21.8999	ug/mL	100
31) Naphthalene	4.165	128	598079	21.0061	ug/mL	100
32) 4-Cl-aniline	4.309	127	254869	21.2094	ug/mL	100
33) 26Diclphenol	4.301	162	161889	21.2310	ug/mL	100
34) Hexaclprop	4.290	213	131871	20.8640	ug/mL	100
35) Hexaclbutdien	4.381	225	115038	20.5561	ug/mL	100
36) 4Cl3methylphe	5.111	107	225768	22.0284	ug/mL	100
37) 2Methylnaphth	5.170	142	614553	24.0093	ug/mL	100
38) 1Methylnaphth	5.318	141	535641	20.9331	ug/mL	100
40) Hxclcycpentdi	5.435	237	159415	23.3218	ug/mL	100

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL4.D Vial: 14
Acq On : 5 Aug 2013 15:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5740 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:09:53 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:09:19 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

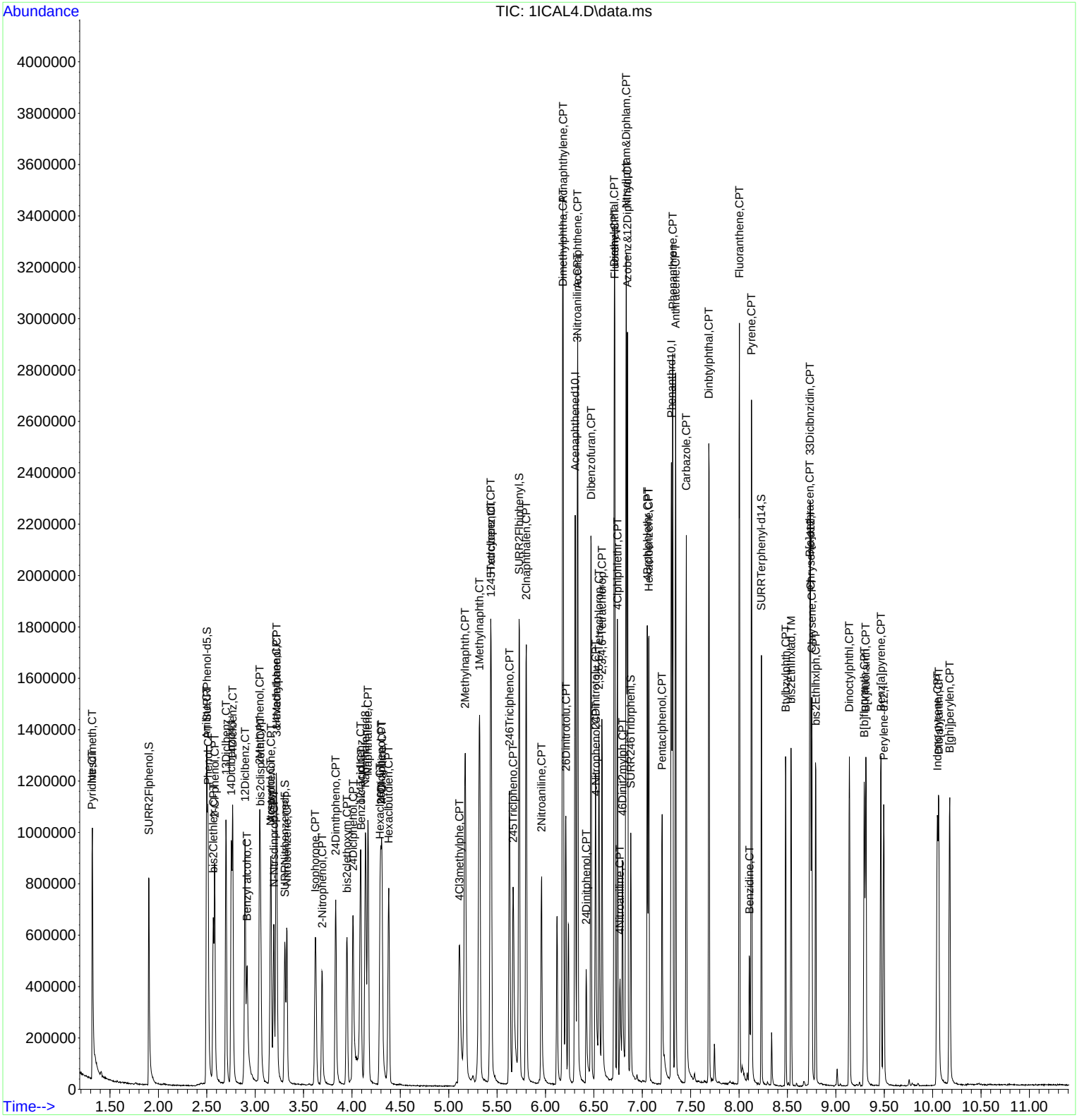
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.438	216	295950	20.5975	ug/mL	100
42) 246Triclpheno	5.628	196	197406	21.4621	ug/mL	100
43) 245Triclpheno	5.665	196	223165	22.6623	ug/mL	99
45) 2Clnaphthalen	5.801	162	589595	21.2535	ug/mL	100
46) 2Nitroaniline	5.960	65	121616	22.1838	ug/mL	100
47) Acnaphthylene	6.182	152	810689	20.9214	ug/mL	100
48) Dimethylphtha	6.179	163	554915	21.1888	ug/mL	100
49) 26Dinitrotolu	6.210	165	145445	21.3037	ug/mL	100
50) Acenaphthene	6.333	154	465651	19.8488	ug/mL	100
51) 3Nitroaniline	6.330	138	141278	22.2592	ug/mL	100
52) 24Dinitphenol	6.421	184	86429	20.0644	ug/mL	100
53) Dibenzofuran	6.472	168	731548	20.5294	ug/mL	100
54) 24Dinitrotolu	6.517	165	189785	22.1525	ug/mL	100
55) 4-Nitrophenol	6.520	139	108858	30.6366	ug/mL	100
56) 2,3,5,6-Tetrachlorop	6.551	232	151363	22.5905	ug/mL	100
57) 2,3,4,6-Tetrachlorop	6.583	232	175064	21.7341	ug/mL	100
58) Fluorene	6.716	166	534733	21.0566	ug/mL	100
59) 4Clphlphlethr	6.745	204	273810	20.9303	ug/mL	100
60) Diethylphthal	6.711	149	545775	21.2981	ug/mL	100
61) 4Nitroaniline	6.770	138	138638	22.0282	ug/mL	100
64) 46Dinit2mylph	6.796	198	109303	21.6217	ug/mL	100
65) Ntrsdiphlam&Diphlam	6.836	169	632794	42.7295	ug/mL	100
66) Azobenz&12Diphlhyd	6.847	182	215956	40.8899	ug/mL	100
67) 4Brphlphlethr	7.051	248	169186	20.5203	ug/mL	100
68) Hexaclbenzene	7.069	284	179663	20.5479	ug/mL	100
69) Pentaclphenol	7.205	266	119044	21.7055	ug/mL	100
70) Phenanthrene	7.316	178	750465	19.8470	ug/mL	100
71) Anthracene	7.344	178	778041	19.7555	ug/mL	100
72) Carbazole	7.455	167	717838	19.3389	ug/mL	100
73) Dinbtylphthal	7.688	149	1064701	21.1163	ug/mL	100
74) Fluoranthene	8.003	202	910338	20.4793	ug/mL	100
76) Benzidine	8.108	184	179585	16.3710	ug/mL	100
77) Pyrene	8.128	202	788139	21.0186	ug/mL	100
79) Btylbzylphth	8.481	149	226005	21.5188	ug/mL	100
80) bis2Ethlhxlad	8.538	129	185834	21.7871	ug/mL	100
81) 33Diclbnzidin	8.734	252	91025	20.0927	ug/mL	100
82) B[a]anthracen	8.731	228	355431	21.0028	ug/mL	100
83) Chrysene	8.751	228	329365	20.9318	ug/mL	100
84) bis2Ethlhxlph	8.793	149	305197	21.8040	ug/mL	100
85) Dinoctylphthl	9.140	149	587385	22.5778	ug/mL	100
87) B[b]fluoranth	9.293	252	377325	20.6263	ug/mL	100
88) B[k]fluoranth	9.310	252	363072	21.5163	ug/mL	100
89) Benz[a]pyrene	9.467	252	371068	20.7605	ug/mL	100
90) Indeno-pyrene	10.049	276	421128	21.4004	ug/mL	100
91) Dib[ah]anthr	10.063	278	324457	22.1964	ug/mL	100
92) B[ghi]perylen	10.177	276	372984	21.1946	ug/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL4.D Vial: 14
Acq On : 5 Aug 2013 15:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5740 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:09:53 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:09:19 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL3.D Vial: 15
Acq On : 5 Aug 2013 16:15 Operator: RPN
Sample : ICAL 10ug/ml SVMS5739 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:10:18 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:10:10 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.753	152	178268	20.00	ug/mL	0.00
21) Naphthalened8	4.139	136	659658	20.00	ug/mL	0.00
39) Acenaphthened10	6.307	164	518236	20.00	ug/mL	0.00
63) Phenanthrd10	7.302	188	797006	20.00	ug/mL	0.00
75) Chrysene-d12	8.737	240	347358	20.00	ug/mL	0.00
86) Perylene-d12	9.495	264	361079	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	120428	24.78	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 24.78%			
7) SURRPhenol-d5	2.500	99	128649	24.82	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 24.82%			
22) SURRNitrbenzened5	3.304	82	95293	49.55	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 49.55%			
44) SURR2Flbiphenyl	5.725	172	341615	50.09	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 50.09%			
62) SURR246Tribrphenl	6.881	330	45079	25.97	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 25.97%#			
78) SURRTerphenyl-d14	8.231	244	171714	49.59	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 49.59%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.320	74	60478	9.3186	ug/mL	99
3) Pyridine	1.323	79	111242	9.0775	ug/mL	91
5) Aniline	2.494	93	159473	9.9984	ug/mL	99
6) bis2Clethletr	2.565	93	109122	10.1037	ug/mL	91
8) Phenol	2.508	94	149266	9.8160	ug/mL	91
9) 2-Cl-phenol	2.579	128	127581	9.8398	ug/mL	97
10) 13Diclbenz	2.696	146	144605	9.5676	ug/mL	93
11) 14Diclbenz	2.767	146	136537	9.5495	ug/mL	97
12) 12Diclbenz	2.895	146	136257	9.6247	ug/mL	98
13) Benzyl alcoho	2.915	108	59772	9.5659	ug/mL	91
14) bis2clispreth	3.051	45	173939	9.5839	ug/mL	96
15) 2Methylphenol	3.042	107	82886	8.8476	ug/mL	96
16) Ntrspyrrol	3.145	100	45173	9.7074	ug/mL	97
17) Acetophenone	3.159	105	135959	9.8366	ug/mL	96
18) Hexaclethane	3.216	117	53943	9.9925	ug/mL	97
19) N-Ntrsdinprop	3.184	70	61245	9.7342	ug/mL	99
20) 3&4Methylphenol	3.216	107	104906	10.2103	ug/mL	97
23) Nitrobenzene	3.324	77	93569	10.0716	ug/mL	97
24) Isophorone	3.616	82	167110	9.3987	ug/mL	97
25) 2-Nitrophenol	3.690	139	63529	9.6746	ug/mL	97
26) 24Dimthpheno	3.827	122	85661	9.2851	ug/mL	95
27) bis2clethoxym	3.943	93	120879	9.6451	ug/mL	98
28) 24Diclphenol	4.008	162	102891	9.8896	ug/mL	96
29) 124Triclbenz	4.085	180	114536	9.7948	ug/mL	98
30) Benzoic acid	4.034	122	46188	8.7547	ug/mL	91
31) Naphthalene	4.162	128	305606	9.6282	ug/mL	100
32) 4-Cl-aniline	4.307	127	136576	10.1948	ug/mL	98
33) 26Diclphenol	4.298	162	85600	10.0698	ug/mL	97
34) Hexaclprop	4.290	213	68726	9.7651	ug/mL	95
35) Hexaclbutdien	4.378	225	62347	10.0004	ug/mL	96
36) 4Cl3methylphe	5.114	107	110489	9.6566	ug/mL	99
37) 2Methylnaphth	5.168	142	314392	10.6478	ug/mL	96
38) 1Methylnaphth	5.316	141	273386	9.5836	ug/mL	100
40) Hxclcycpentdi	5.432	237	78396	10.3407	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL3.D Vial: 15
Acq On : 5 Aug 2013 16:15 Operator: RPN
Sample : ICAL 10ug/ml SVMS5739 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:10:18 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:10:10 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

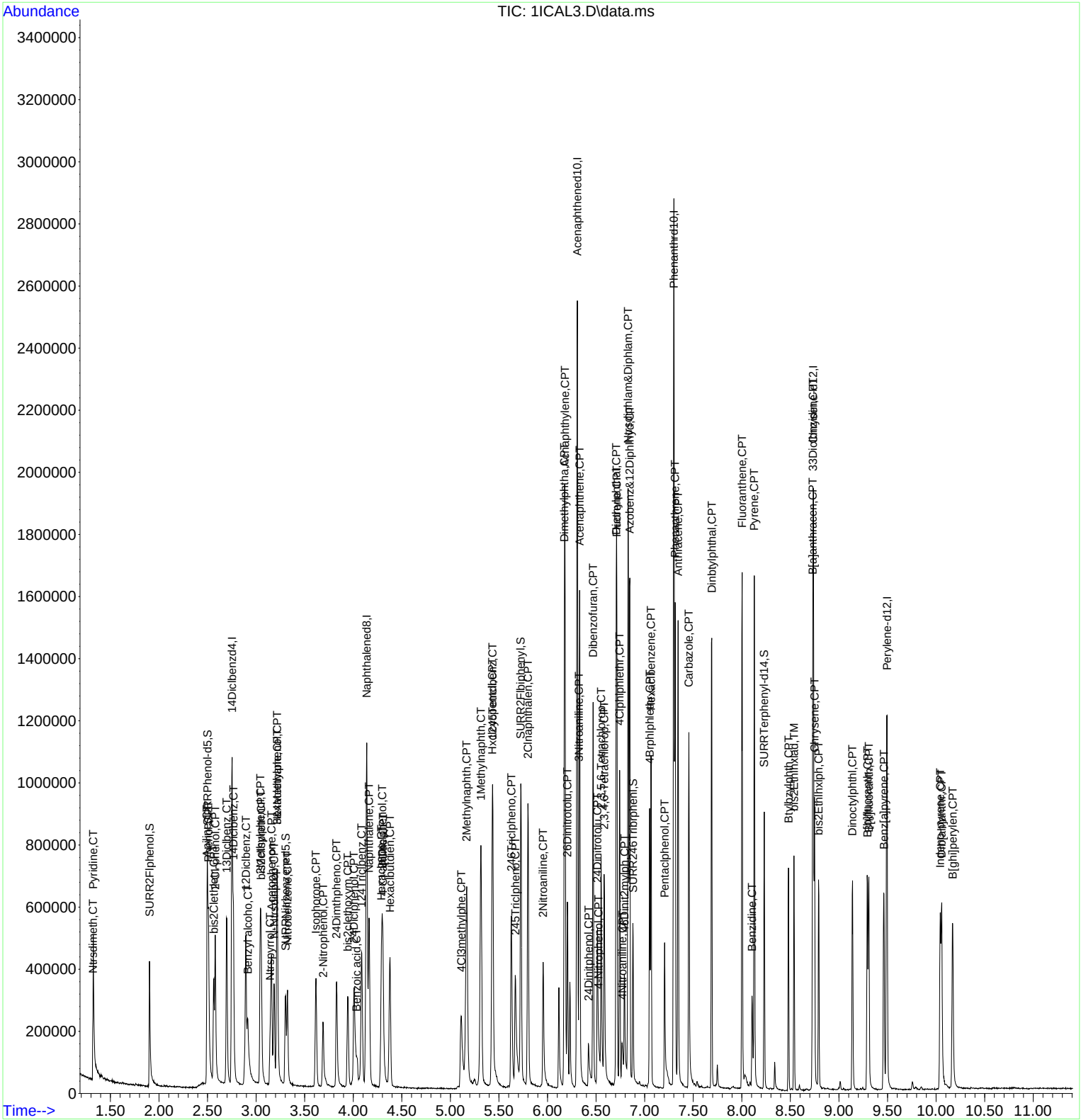
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.435	216	161951	10.1600	ug/mL	97
42) 246Triclpheno	5.628	196	99909	9.7917	ug/mL	99
43) 245Triclpheno	5.671	196	112987	10.3250	ug/mL	99
45) 2Clnaphthalen	5.799	162	314319	10.2137	ug/mL	98
46) 2Nitroaniline	5.955	65	62533	10.2892	ug/mL	97
47) Acnaphthylene	6.179	152	463970	9.7801	ug/mL	98
48) Dimethylphtha	6.174	163	324799	10.0121	ug/mL	99
49) 26Dinitrotolu	6.205	165	74032	9.7749	ug/mL	98
50) Acenaphthene	6.330	154	255502	9.1091	ug/mL	99
51) 3Nitroaniline	6.324	138	76150	10.8152	ug/mL	96
52) 24Dinitphenol	6.424	184	36587	9.1294	ug/mL	92
53) Dibenzofuran	6.469	168	407958	10.3203	ug/mL	98
54) 24Dinitrotolu	6.515	165	98761	10.3915	ug/mL	97
55) 4-Nitrophenol	6.526	139	49898	11.1531	ug/mL	92
56) 2,3,5,6-Tetrachlorop	6.552	232	76289	10.2610	ug/mL	98
57) 2,3,4,6-Tetrachlorop	6.583	232	92737	10.3213	ug/mL	98
58) Fluorene	6.714	166	307705	9.7579	ug/mL	99
59) 4Clphlphlethr	6.742	204	154549	9.6614	ug/mL	98
60) Diethylphthal	6.708	149	319341	10.0377	ug/mL	99
61) 4Nitroaniline	6.770	138	63514	9.0927	ug/mL	93
64) 46Dinit2mylph	6.793	198	53752	9.8443	ug/mL	97
65) Ntrsdiphlam&Diphlam	6.830	169	358133	19.7781	ug/mL	99
66) Azobenz&12Diphlhyd	6.847	182	125497	19.9187	ug/mL#	79
67) 4Brphlphlethr	7.052	248	90564	10.1706	ug/mL	96
68) Hexaclbenzene	7.066	284	99238	10.5115	ug/mL	98
69) Pentaclphenol	7.205	266	54030	9.1183	ug/mL	98
70) Phenanthrene	7.313	178	423371	10.3679	ug/mL	99
71) Anthracene	7.344	178	439750	10.3395	ug/mL	98
72) Carbazole	7.455	167	392333	9.7859	ug/mL	98
73) Dinbtylphthal	7.691	149	571325	10.4916	ug/mL	100
74) Fluoranthene	8.004	202	489343	10.1947	ug/mL	99
76) Benzidine	8.106	184	117674	9.2107	ug/mL	100
77) Pyrene	8.129	202	439168	10.0511	ug/mL	98
79) Btylbzylphth	8.481	149	120282	9.8282	ug/mL	99
80) bis2Ethlhxlad	8.538	129	98439	9.9042	ug/mL	99
81) 33Diclbnzidin	8.734	252	47232	8.9446	ug/mL	96
82) B[a]anthracen	8.731	228	179537	9.1060	ug/mL	97
83) Chrysene	8.748	228	185528	10.1185	ug/mL	98
84) bis2Ethlhxlph	8.791	149	160232	9.8238	ug/mL	95
85) Dinoctylphthl	9.140	149	295231	9.7385	ug/mL	100
87) B[b]fluoranth	9.294	252	185955	9.0514	ug/mL	98
88) B[k]fluoranth	9.308	252	181109	9.5569	ug/mL	99
89) Benz[a]pyrene	9.464	252	199626	9.9451	ug/mL	100
90) Indeno-pyrene	10.044	276	216844	9.8133	ug/mL	97
91) Dib[ah]anthr	10.058	278	175606	10.6971	ug/mL	94
92) B[ghi]perylen	10.172	276	196536	9.9346	ug/mL	98

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL3.D Vial: 15
Acq On : 5 Aug 2013 16:15 Operator: RPN
Sample : ICAL 10ug/ml SVMS5739 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:10:18 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:10:10 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL2.D Vial: 16
Acq On : 5 Aug 2013 16:33 Operator: RPN
Sample : ICAL 5ug/ml SVMS5738 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:12:58 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:12:54 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.752	152	179713	20.00	ug/mL	0.00
21) Naphthalened8	4.136	136	651473	20.00	ug/mL	0.00
39) Acenaphthened10	6.307	164	528216	20.00	ug/mL	0.00
63) Phenanthrd10	7.301	188	823508	20.00	ug/mL	0.00
75) Chrysene-d12	8.736	240	378139	20.00	ug/mL	0.00
86) Perylene-d12	9.495	264	363864	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	58888	12.02	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 12.02%#			
7) SURRPhenol-d5	2.499	99	67256	12.87	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 12.87%			
22) SURRNitrbenzened5	3.301	82	49521	26.23	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 26.23%#			
44) SURR2Flbiphenyl	5.727	172	190813	27.48	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 27.48%#			
62) SURR246Tribrphenl	6.878	330	23678	13.55	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 13.55%#			
78) SURRTerphenyl-d14	8.231	244	99174	26.30	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 26.30%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.320	74	29819	4.5576	ug/mL	95
3) Pyridine	1.329	79	55625	4.5305	ug/mL	90
5) Aniline	2.497	93	79172	4.9239	ug/mL#	38
6) bis2Clethletr	2.562	93	55645	5.1166	ug/mL	94
8) Phenol	2.511	94	80690	5.2610	ug/mL	94
9) 2-Cl-phenol	2.579	128	68421	5.2346	ug/mL	97
10) 13Diclbenz	2.698	146	80225	5.2653	ug/mL	93
11) 14Diclbenz	2.766	146	76270	5.2913	ug/mL	99
12) 12Diclbenz	2.894	146	75417	5.2843	ug/mL	96
13) Benzyl alcoho	2.914	108	28351	4.5008	ug/mL	96
14) bis2clispreth	3.051	45	94032	5.1391	ug/mL	97
15) 2Methylphenol	3.045	107	44666	5.1376	ug/mL	96
16) Ntrspyrrol	3.142	100	23919	5.1107	ug/mL	91
17) Acetophenone	3.156	105	75123	5.3746	ug/mL	98
18) Hexaclethane	3.213	117	30043	5.5305	ug/mL	97
19) N-Ntrsdinprop	3.181	70	31676	4.9941	ug/mL	90
20) 3&4Methylphenol	3.215	107	56277	5.3650	ug/mL	94
23) Nitrobenzene	3.321	77	48288	5.2550	ug/mL	97
24) Isophorone	3.610	82	88456	5.0314	ug/mL	99
25) 2-Nitrophenol	3.690	139	33495	5.1638	ug/mL	94
26) 24Dimthpheno	3.826	122	44117	4.8533	ug/mL	90
27) bis2clethoxym	3.943	93	63632	5.1399	ug/mL	96
28) 24Diclphenol	4.008	162	52705	5.1283	ug/mL	98
29) 124Triclbenz	4.088	180	61877	5.3569	ug/mL	99
30) Benzoic acid	4.008	122	17374	3.8218	ug/mL	96
31) Naphthalene	4.162	128	168507	5.3759	ug/mL	99
32) 4-Cl-aniline	4.307	127	69006	5.2145	ug/mL	94
33) 26Diclphenol	4.298	162	44928	5.3503	ug/mL	94
34) Hexaclprop	4.290	213	36792	5.2925	ug/mL	98
35) Hexaclbutdien	4.378	225	32493	5.2831	ug/mL	96
36) 4Cl3methylphe	5.114	107	56496	4.9378	ug/mL	97
37) 2Methylnaphth	5.165	142	175480	5.5189	ug/mL	93
38) 1Methylnaphth	5.315	141	156105	5.5397	ug/mL	98
40) Hxclcycpentdi	5.432	237	37953	4.9143	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL2.D Vial: 16
Acq On : 5 Aug 2013 16:33 Operator: RPN
Sample : ICAL 5ug/ml SVMS5738 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:12:58 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:12:54 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

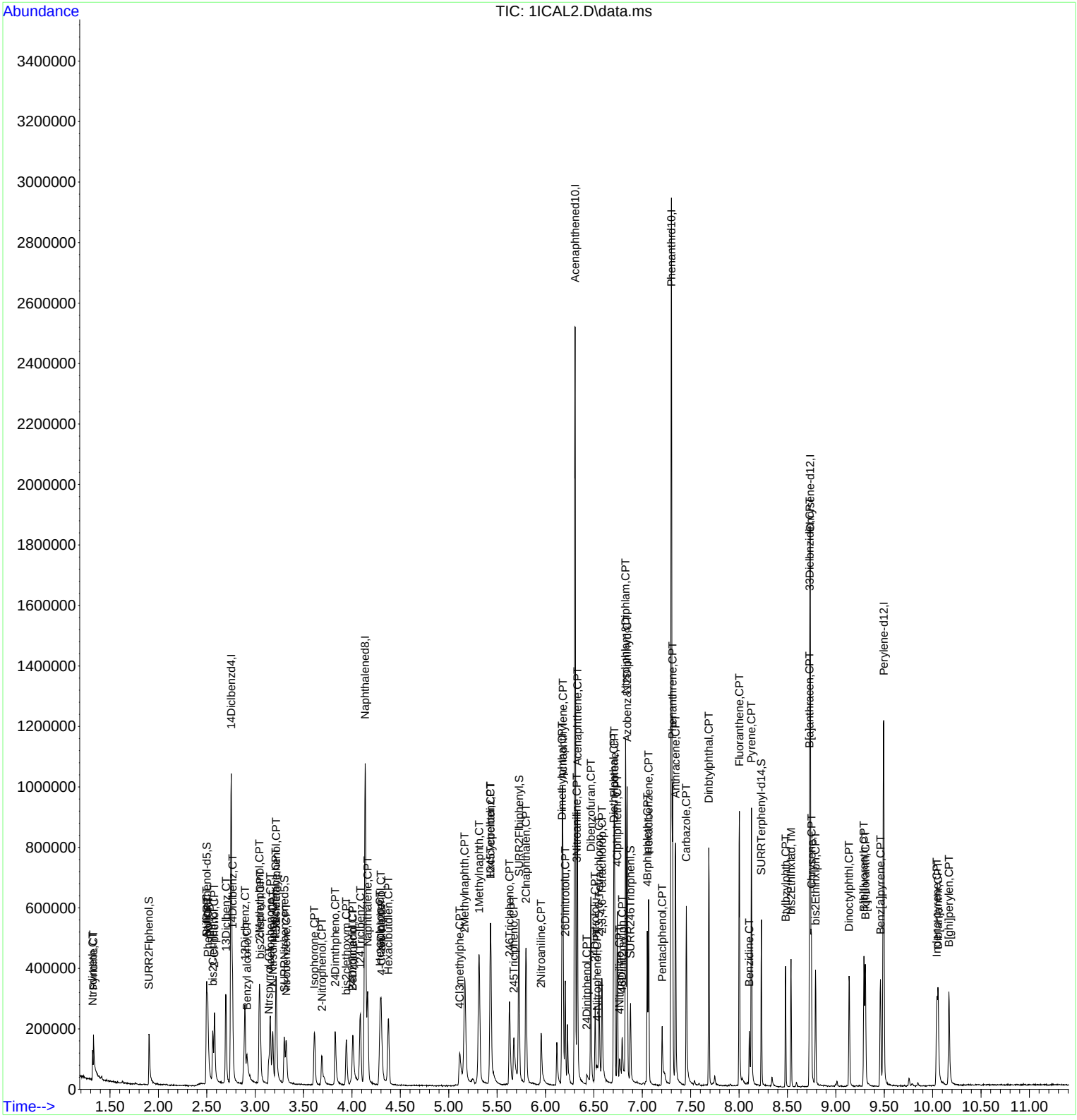
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.432	216	92729	5.7074 ug/mL	96
42) 246Triclpheno	5.628	196	53120	5.1119 ug/mL	97
43) 245Triclpheno	5.673	196	56561	4.9783 ug/mL	97
45) 2Clnaphthalen	5.798	162	166761	5.3216 ug/mL	99
46) 2Nitroaniline	5.955	65	31837	5.1474 ug/mL	98
47) Acnaphthylene	6.179	152	271199	5.3141 ug/mL	100
48) Dimethylphtha	6.171	163	188815	5.3938 ug/mL	100
49) 26Dinitrotolu	6.205	165	41428	5.3717 ug/mL	87
50) Acenaphthene	6.330	154	141321	4.9727 ug/mL	98
51) 3Nitroaniline	6.324	138	42920	5.9869 ug/mL	98
52) 24Dinitphenol	6.426	184	15026	5.3111 ug/mL	92
53) Dibenzofuran	6.469	168	222092	5.5028 ug/mL	100
54) 24Dinitrotolu	6.511	165	51243	5.2950 ug/mL	97
55) 4-Nitrophenol	6.534	139	24360	4.4292 ug/mL	88
56) 2,3,5,6-Tetrachlorop	6.551	232	39608	5.2264 ug/mL	95
57) 2,3,4,6-Tetrachlorop	6.583	232	49519	5.4835 ug/mL	98
58) Fluorene	6.713	166	176150	5.1953 ug/mL	98
59) 4Clphlphlethr	6.742	204	86144	5.0475 ug/mL	99
60) Diethylphthal	6.705	149	174761	5.0749 ug/mL	98
61) 4Nitroaniline	6.764	138	38933	5.4748 ug/mL	92
64) 46Dinit2mylph	6.793	198	25655	4.5453 ug/mL	86
65) Ntrsdiphlam&Diphlam	6.827	169	204150	10.1965 ug/mL	99
66) Azobenz&12Diphlhyd	6.844	182	70258	10.1019 ug/mL	95
67) 4Brphlphlethr	7.051	248	51213	5.5657 ug/mL	96
68) Hexaclbenzene	7.066	284	56122	5.7950 ug/mL	97
69) Pentaclphenol	7.205	266	23964	3.9304 ug/mL	91
70) Phenanthrene	7.313	178	230777	5.4695 ug/mL	98
71) Anthracene	7.344	178	249277	5.6873 ug/mL	99
72) Carbazole	7.455	167	214760	5.1879 ug/mL	97
73) Dinbtylphthal	7.688	149	311984	5.5448 ug/mL	100
74) Fluoranthene	8.003	202	277206	5.5887 ug/mL	99
76) Benzidine	8.106	184	68305	4.9035 ug/mL	98
77) Pyrene	8.128	202	249213	5.2359 ug/mL	99
79) Btylbzylphth	8.481	149	66290	4.9735 ug/mL	99
80) bis2Ethlhxlad	8.537	129	55697	5.1329 ug/mL	97
81) 33Diclbnzidin	8.731	252	29597	5.1460 ug/mL	97
82) B[a]anthracen	8.728	228	104433	4.8635 ug/mL	99
83) Chrysene	8.748	228	99523	4.9956 ug/mL	98
84) bis2Ethlhxlph	8.790	149	89900	5.0609 ug/mL	99
85) Dinoctylphthl	9.137	149	156674	4.7454 ug/mL	100
87) B[b]fluoranth	9.290	252	119419	5.7686 ug/mL	97
88) B[k]fluoranth	9.305	252	100991	5.2887 ug/mL	98
89) Benz[a]pyrene	9.461	252	107793	5.3265 ug/mL	98
90) Indeno-pyrene	10.043	276	119003	5.3463 ug/mL	93
91) Dib[ah]anthr	10.058	278	91409	5.5259 ug/mL	99
92) B[ghi]perylen	10.168	276	104486	5.2552 ug/mL	98

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL2.D Vial: 16
Acq On : 5 Aug 2013 16:33 Operator: RPN
Sample : ICAL 5ug/ml SVMS5738 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:12:58 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:12:54 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL1.D Vial: 17
Acq On : 5 Aug 2013 16:52 Operator: RPN
Sample : ICAL 1ug/ml SVMS5737 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:11:32 2013

RPN 08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:11:12 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.752	152	189997	20.00	ug/mL	0.00
21) Naphthalened8	4.136	136	720313	20.00	ug/mL	0.00
39) Acenaphthened10	6.307	164	568704	20.00	ug/mL	0.00
63) Phenanthrd10	7.304	188	869510	20.00	ug/mL	0.00
75) Chrysene-d12	8.734	240	389983	20.00	ug/mL	0.00
86) Perylene-d12	9.492	264	371824	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.911	112	8887	1.72	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 1.72%#			
7) SURRPhenol-d5	2.505	99	13956	2.53	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 2.53%#			
22) SURRNitrbenzened5	3.301	82	9626	4.58	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 4.58%#			
44) SURR2Flbiphenyl	5.727	172	44848	6.00	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 6.00%#			
62) SURR246Tribrphenl	6.884	330	5079	2.67	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 2.67%#			
78) SURRTerphenyl-d14	8.234	244	21153	5.44	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 5.44%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.329	74	6010	0.8689	ug/mL	93
3) Pyridine	1.374	79	11809	0.9136	ug/mL	84
5) Aniline	2.500	93	16608	0.9770	ug/mL	98
6) bis2Clethletr	2.562	93	12791	1.1125	ug/mL#	78
8) Phenol	2.517	94	17510	1.0786	ug/mL	77
9) 2-Cl-phenol	2.585	128	14998	1.0853	ug/mL	87
10) 13Diclbenz	2.698	146	18670	1.1590	ug/mL	91
11) 14Diclbenz	2.764	146	17466	1.1462	ug/mL	93
12) 12Diclbenz	2.895	146	16274	1.0786	ug/mL	84
13) Benzyl alcoho	2.940	108	4768	0.7160	ug/mL#	73
14) bis2clispreth	3.051	45	22223	1.1489	ug/mL	93
15) 2Methylphenol	3.045	107	10549	1.1255	ug/mL	88
16) Ntrspyrrol	3.142	100	4493	0.9060	ug/mL	70
17) Acetophenone	3.156	105	13032	0.8819	ug/mL	93
18) Hexaclethane	3.213	117	6688	1.1633	ug/mL	94
19) N-Ntrsdinprop	3.179	70	7199	1.0736	ug/mL	98
20) 3&4Methylphenol	3.224	107	11074	0.9992	ug/mL	87
23) Nitrobenzene	3.324	77	10358	1.0223	ug/mL	95
24) Isophorone	3.613	82	19598	1.0092	ug/mL	99
25) 2-Nitrophenol	3.696	139	6376	0.8891	ug/mL	90
26) 24Dimthpheno	3.832	122	10030	1.0039	ug/mL	86
27) bis2clethoxym	3.943	93	13119	0.9585	ug/mL	98
28) 24Diclphenol	4.020	162	11116	0.9784	ug/mL	92
29) 124Triclbenz	4.088	180	14479	1.1338	ug/mL	83
30) Benzoic acid	0.000		0	N.D.		
31) Naphthalene	4.159	128	38979	1.1249	ug/mL	95
32) 4-Cl-aniline	4.312	127	14584	0.9968	ug/mL	90
33) 26Diclphenol	4.301	162	9725	1.0476	ug/mL	88
34) Hexaclprop	4.290	213	7622	0.9922	ug/mL	92
35) Hexaclbutdien	4.375	225	7537	1.1078	ug/mL	80
36) 4Cl3methylphe	5.134	107	11191	0.8908	ug/mL	88
37) 2Methylnaphth	5.168	142	37593	1.0994	ug/mL	88
38) 1Methylnaphth	5.313	141	35937	1.1536	ug/mL	98
40) Hxclcycpentdi	5.432	237	5698	0.6853	ug/mL	86

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL1.D Vial: 17
Acq On : 5 Aug 2013 16:52 Operator: RPN
Sample : ICAL 1ug/ml SVMS5737 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:11:32 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:11:12 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

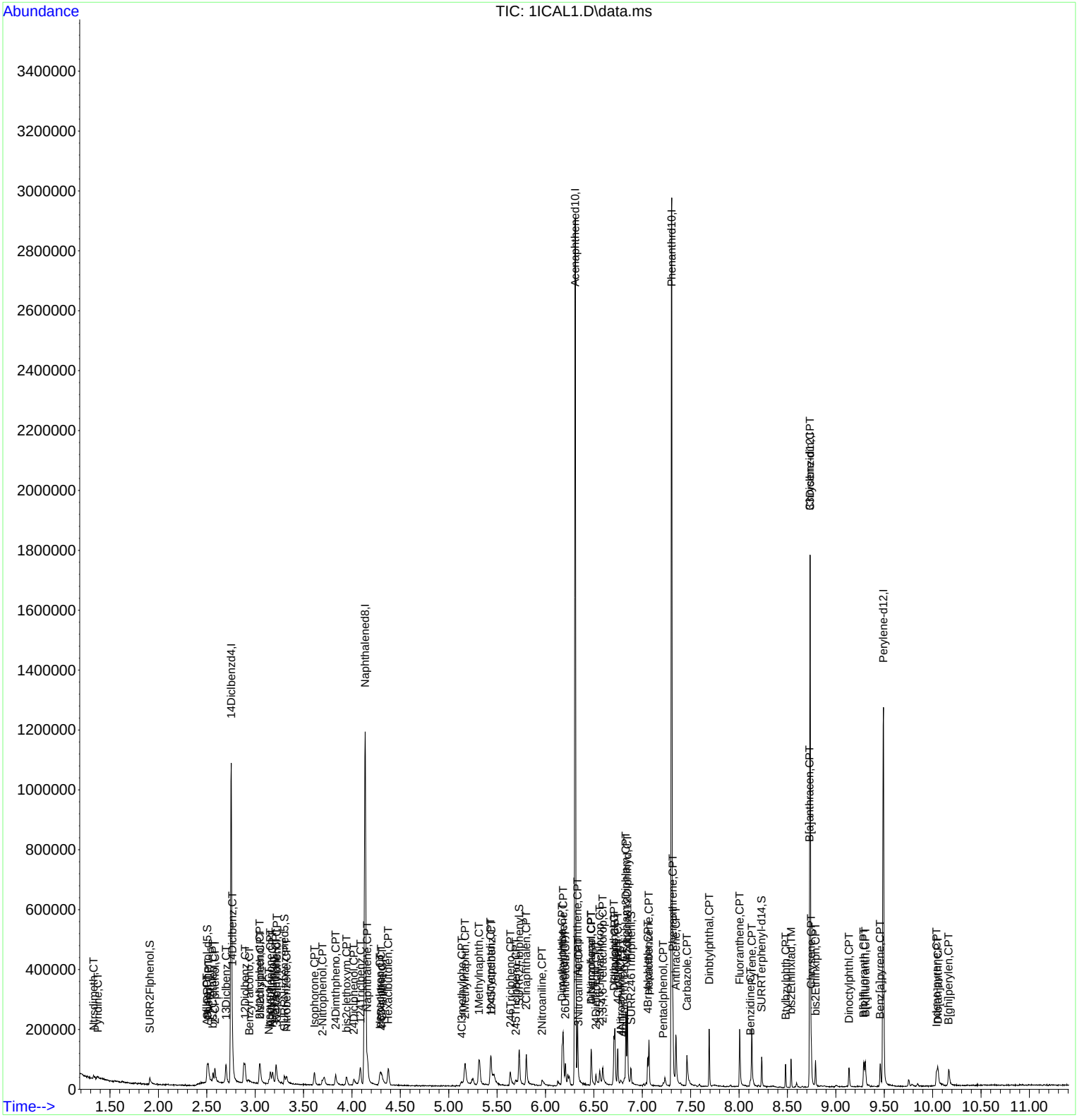
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.440	216	20846	1.1929 ug/mL	99
42) 246Triclpheno	5.636	196	10834	0.9684 ug/mL	95
43) 245Triclpheno	5.693	196	11212	0.9207 ug/mL	82
45) 2Clnaphthalen	5.801	162	39587	1.1734 ug/mL	97
46) 2Nitroaniline	5.963	65	4926	0.7390 ug/mL#	68
47) Acnaphthylene	6.182	152	67109	0.9621 ug/mL	96
48) Dimethylphtha	6.171	163	44249	0.9242 ug/mL	99
49) 26Dinitrotolu	6.205	165	9412	1.1336 ug/mL	81
50) Acenaphthene	6.330	154	36080	0.8910 ug/mL	96
51) 3Nitroaniline	6.341	138	7843	1.0162 ug/mL	97
52) 24Dinitphenol	0.000		0	N.D.	
53) Dibenzofuran	6.472	168	53193	1.2276 ug/mL	96
54) 24Dinitrotolu	6.520	165	10210	0.9799 ug/mL	91
55) 4-Nitrophenol	6.472	139	17475	2.9512 ug/mL#	23
56) 2,3,5,6-Tetrachlorop	6.560	232	6546	0.8031 ug/mL	91
57) 2,3,4,6-Tetrachlorop	6.591	232	10076	1.0220 ug/mL	90
58) Fluorene	6.716	166	43390	0.9714 ug/mL	97
59) 4Clphlphlethr	6.748	204	20984	1.0004 ug/mL	97
60) Diethylphthal	6.708	149	43788	0.9760 ug/mL	98
61) 4Nitroaniline	6.779	138	5293	0.6913 ug/mL	87
64) 46Dinit2mylph	6.804	198	3211	0.5388 ug/mL#	66
65) Ntrsdiphlam&Diphlam	6.830	169	52724	1.9531 ug/mL	98
66) Azobenz&12Diphlhyd	6.847	182	18573	1.9968 ug/mL#	82
67) 4Brphlphlethr	7.057	248	11895	1.2243 ug/mL	95
68) Hexaclbenzene	7.069	284	12732	1.2404 ug/mL	94
69) Pentaclphenol	7.216	266	1939	0.3012 ug/mL#	29
70) Phenanthrene	7.316	178	59499	1.3355 ug/mL	99
71) Anthracene	7.347	178	60819	1.3108 ug/mL	98
72) Carbazole	7.461	167	57041	1.3047 ug/mL	96
73) Dinbtylphthal	7.691	149	68629	1.1552 ug/mL	99
74) Fluoranthene	8.006	202	63938	1.2209 ug/mL	97
76) Benzidine	8.117	184	15155	1.0582 ug/mL	92
77) Pyrene	8.131	202	57678	1.1756 ug/mL	97
79) Btylbzylphth	8.481	149	13094	0.9527 ug/mL	97
80) bis2Ethlhxlad	8.538	129	11626	1.0408 ug/mL	98
81) 33Diclbnzidin	8.734	252	6777	1.1428 ug/mL	86
82) B[a]anthracen	8.728	228	23450	1.0591 ug/mL	93
83) Chrysene	8.745	228	22447	1.0927 ug/mL	95
84) bis2Ethlhxlph	8.790	149	17213	0.9397 ug/mL	96
85) Dinoctylphthl	9.137	149	28860	0.8477 ug/mL	96
87) B[b]fluoranth	9.288	252	23265	1.0997 ug/mL	97
88) B[k]fluoranth	9.305	252	24149	1.2375 ug/mL	96
89) Benz[a]pyrene	9.458	252	24716	1.1958 ug/mL	99
90) Indeno-pyrene	10.041	276	24227	1.0647 ug/mL	90
91) Dib[ah]anthr	10.055	278	16147	0.9552 ug/mL	94
92) B[ghi]perylen	10.166	276	23352	1.1492 ug/mL	89

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICAL1.D Vial: 17
Acq On : 5 Aug 2013 16:52 Operator: RPN
Sample : ICAL 1ug/ml SVMS5737 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:11:32 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:11:12 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Initial Calibration Verification Report

Data File Name	1ICV1.D
Data File Path	C:\INSTARCH\Data\1S080513\
Operator	RPN
Date Acquired	8/5/2013 17:10
Acq. Method File	1S080513.M
Sample Name	ICV 20ug/ml SVMS5790
Misc Info	500uL+5ul IS S2810D
Vial Number	18
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	80-120 %REC
1)	14Diclbenzd4	2.75	20.00	ug/mL	159636	ISTD
2)	Ntrsdimeth	1.32	18.87	ug/mL	109658	94
3)	Pyridine	1.31	18.56	ug/mL	202408	93
4)	SURR2Flphenol	1.90	47.08	%REC	204883	94
5)	Aniline	2.50	18.58	ug/mL	265416	93
6)	bis2Clethletr	2.57	18.96	ug/mL	183155	95
7)	SURRPhenol-d5	2.50	45.02	%REC	208944	90
8)	Phenol	2.51	18.98	ug/mL	258624	95
9)	2-Cl-phenol	2.58	19.07	ug/mL	221377	95
10)	13Diclbenz	2.70	18.23	ug/mL	246667	91
11)	14Diclbenz	2.77	18.84	ug/mL	241232	94
12)	12Diclbenz	2.89	18.43	ug/mL	233620	92
13)	Benzyl alcoho	2.91	19.33	ug/mL	108133	97
14)	bis2clispreth	3.05	18.87	ug/mL	306725	94
15)	2Methylphenol	3.05	18.82	ug/mL	145352	94
16)	Ntrspyrrol	3.15	19.83	ug/mL	82421	99
17)	Acetophenone	3.16	19.32	ug/mL	239864	97
18)	Hexaclethane	3.22	18.38	ug/mL	88703	92
19)	N-Ntrsdinprop	3.19	18.74	ug/mL	105609	94
20)	3&4Methylphenol	3.22	18.15	ug/mL	169087	91
21)	Naphthalened8	4.14	20.00	ug/mL	583039	ISTD
22)	SURRNitrbenzened5	3.31	91.19	%REC	154095	91
23)	Nitrobenzene	3.33	19.51	ug/mL	160482	98
24)	Isophorone	3.62	18.74	ug/mL	294920	94
25)	2-Nitrophenol	3.69	19.59	ug/mL	113709	98
26)	24Dimthpheno	3.83	22.09	ug/mL	179728	110
27)	bis2clethoxym	3.95	20.14	ug/mL	223167	101
28)	24Diclphenol	4.01	19.19	ug/mL	176511	96
29)	124Triclbenz	4.09	18.12	ug/mL	187291	91
30)	Benzoic acid	4.08	19.40	ug/mL	88312	97
31)	Naphthalene	4.17	21.52	ug/mL	603598	108
32)	4-Cl-aniline	4.31	18.68	ug/mL	221227	93
33)	26Diclphenol	4.30	18.80	ug/mL	141292	94
34)	Hexaclprop	4.29	19.06	ug/mL	118569	95
35)	Hexaclbutdien	4.38	20.49	ug/mL	112768	102
36)	4Cl3methylphe	5.11	19.56	ug/mL	200253	98
37)	2Methylnaphth	5.17	19.75	ug/mL	561869	99

38) 1Methylnaphth	5.32	17.68	ug/mL	445904	88
39) Acenaphthened10	6.31	20.00	ug/mL	464628	ISTD
40) Hxclcycpentdi	5.43	21.13	ug/mL	143519	106
41) 1245Tetrclbenz	5.44	18.76	ug/mL	268117	94
42) 246Triclpheno	5.63	19.38	ug/mL	177184	97
43) 245Triclpheno	5.67	20.38	ug/mL	203662	102
44) SURR2Flbiphenyl	5.73	90.40	%REC	552200	90
45) 2Clnaphthalen	5.80	19.67	ug/mL	542247	98
46) 2Nitroaniline	5.96	20.70	ug/mL	112625	104
47) Acnaphthylene	6.18	20.01	ug/mL	775447	100
48) Dimethylphtha	6.18	17.99	ug/mL	482970	90
49) 26Dinitrotolu	6.21	19.17	ug/mL	130041	96
50) Acenaphthene	6.33	19.14	ug/mL	422090	96
51) 3Nitroaniline	6.33	19.98	ug/mL	125995	100
52) 24Dinitphenol	6.42	19.02	ug/mL	81178	95
53) Dibenzofuran	6.47	18.80	ug/mL	667548	94
54) 24Dinitrotolu	6.51	20.26	ug/mL	172460	101
55) 4-Nitrophenol	6.52	20.30	ug/mL	98187	101
56) 2,3,5,6-Tetrachlorop	6.55	21.06	ug/mL	140384	105
57) 2,3,4,6-Tetrachlorop	6.58	18.53	ug/mL	147217	93
58) Fluorene	6.71	19.11	ug/mL	490637	96
59) 4Clphlphlethr	6.74	18.74	ug/mL	248206	94
60) Diethylphthal	6.71	18.98	ug/mL	494353	95
61) 4Nitroaniline	6.77	20.59	ug/mL	128774	103
62) SURR246Tribrphenl	6.88	47.00	%REC	72261	94
63) Phenanthrd10	7.30	20.00	ug/mL	758844	ISTD
64) 46Dinit2mylph	6.80	19.43	ug/mL	101062	97
65) Ntrsdiphlam&Diphlam	6.83	37.83	ug/mL	591222	95
66) Azobenz&12Diphlhyd	6.85	37.53	ug/mL	207016	94
67) 4Brphlphlethr	7.05	18.79	ug/mL	159345	94
68) Hexaclbenzene	7.07	18.55	ug/mL	165554	93
69) Pentaclphenol	7.20	21.44	ug/mL	120450	107
70) Phenanthrene	7.32	18.22	ug/mL	708563	91
71) Anthracene	7.34	18.20	ug/mL	735084	91
72) Carbazole	7.45	17.05	ug/mL	650541	85
73) Dinbtylphthal	7.69	18.21	ug/mL	944264	91
74) Fluoranthene	8.00	18.56	ug/mL	848467	93
75) Chrysene-d12	8.74	20.00	ug/mL	307251	ISTD
76) Benzidine	8.11	22.05	ug/mL	249622	110
77) Pyrene	8.13	19.00	ug/mL	734788	95
78) SURRTerphenyl-d14	8.23	88.88	%REC	272326	89
79) Btylbzylphth	8.48	19.66	ug/mL	212915	98
80) bis2Ethlhxlad	8.54	18.42	ug/mL	162428	92
81) 33Diclbnzidin	8.73	17.39	ug/mL	81245	87
82) B[a]anthracen	8.73	19.45	ug/mL	339320	97
83) Chrysene	8.75	19.89	ug/mL	321939	99
84) bis2Ethlhxlph	8.79	19.98	ug/mL	288364	100
85) Dinoctylphthl	9.14	19.01	ug/mL	510053	95
86) Perylene-d12	9.50	20.00	ug/mL	321160	ISTD
87) B[b]fluoranth	9.30	18.26	ug/mL	333714	91

88)	B[k]fluoranth	9.31	16.65	ug/mL	280595	83
89)	Benz[a]pyrene	9.46	18.76	ug/mL	335083	94
90)	Indeno-pyrene	10.05	18.97	ug/mL	372693	95
91)	Dib[ah]anthr	10.06	19.51	ug/mL	284906	98
92)	B[ghi]perylen	10.18	19.07	ug/mL	334607	95

(#) = recovery out of range Average Percent Recovery = 96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICV1.D Vial: 18
Acq On : 5 Aug 2013 17:10 Operator: RPN
Sample : ICV 20ug/ml SVMS5790 Inst : SVMS1
Misc : 500uL+5ul IS S2810D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:30:50 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.752	152	159636	20.00	ug/mL	0.00
21) Naphthalened8	4.139	136	583039	20.00	ug/mL	0.00
39) Acenaphthened10	6.307	164	464628	20.00	ug/mL	0.00
63) Phenanthrd10	7.302	188	758844	20.00	ug/mL	0.00
75) Chrysene-d12	8.739	240	307251	20.00	ug/mL	0.00
86) Perylene-d12	9.495	264	321160	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.900	112	204883	47.08	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 47.08%			
7) SURRPhenol-d5	2.502	99	208944	45.02	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 45.02%			
22) SURRNitrbenzened5	3.306	82	154095	91.19	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 91.19%			
44) SURR2Flbiphenyl	5.727	172	552200	90.40	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 90.40%			
62) SURR246Tribrphenl	6.881	330	72261	47.00	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 47.00%			
78) SURRTerphenyl-d14	8.231	244	272326	88.88	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 88.88%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.317	74	109658	18.8684	ug/mL	98
3) Pyridine	1.315	79	202408	18.5588	ug/mL	96
5) Aniline	2.497	93	265416	18.5828	ug/mL	87
6) bis2Clethletr	2.568	93	183155	18.9594	ug/mL	94
8) Phenol	2.511	94	258624	18.9831	ug/mL	98
9) 2-Cl-phenol	2.582	128	221377	19.0667	ug/mL	98
10) 13Diclbenz	2.698	146	246667	18.2252	ug/mL	94
11) 14Diclbenz	2.767	146	241232	18.8406	ug/mL	99
12) 12Diclbenz	2.894	146	233620	18.4281	ug/mL	98
13) Benzyl alcoho	2.914	108	108133	19.3255	ug/mL	96
14) bis2clispreth	3.053	45	306725	18.8716	ug/mL	98
15) 2Methylphenol	3.045	107	145352	18.8215	ug/mL	93
16) Ntrspyrrol	3.153	100	82421	19.8256	ug/mL	96
17) Acetophenone	3.164	105	239864	19.3192	ug/mL	98
18) Hexaclethane	3.216	117	88703	18.3828	ug/mL	97
19) N-Ntrsdinprop	3.193	70	105609	18.7448	ug/mL	96
20) 3&4Methylphenol	3.218	107	169087	18.1467	ug/mL	91
23) Nitrobenzene	3.326	77	160482	19.5146	ug/mL	99
24) Isophorone	3.625	82	294920	18.7443	ug/mL	99
25) 2-Nitrophenol	3.693	139	113709	19.5878	ug/mL	97
26) 24Dimthpheno	3.832	122	179728	22.0924	ug/mL	94
27) bis2clethoxym	3.949	93	223167	20.1424	ug/mL	98
28) 24Diclphenol	4.011	162	176511	19.1909	ug/mL	98
29) 124Triclbenz	4.091	180	187291	18.1174	ug/mL	94
30) Benzoic acid	4.079	122	88312	19.4035	ug/mL	88
31) Naphthalene	4.167	128	603598	21.5169	ug/mL	98
32) 4-Cl-aniline	4.309	127	221227	18.6794	ug/mL	98
33) 26Diclphenol	4.301	162	141292	18.8010	ug/mL	94
34) Hexaclprop	4.290	213	118569	19.0579	ug/mL	95
35) Hexaclbutdien	4.378	225	112768	20.4873	ug/mL	97
36) 4Cl3methylphe	5.111	107	200253	19.5567	ug/mL	97
37) 2Methylnaphth	5.170	142	561869	19.7450	ug/mL	98
38) 1Methylnaphth	5.315	141	445904	17.6810	ug/mL	99
40) Hxclcycpentdi	5.435	237	143519	21.1268	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICV1.D Vial: 18
Acq On : 5 Aug 2013 17:10 Operator: RPN
Sample : ICV 20ug/ml SVMS5790 Inst : SVMS1
Misc : 500uL+5ul IS S2810D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:30:50 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

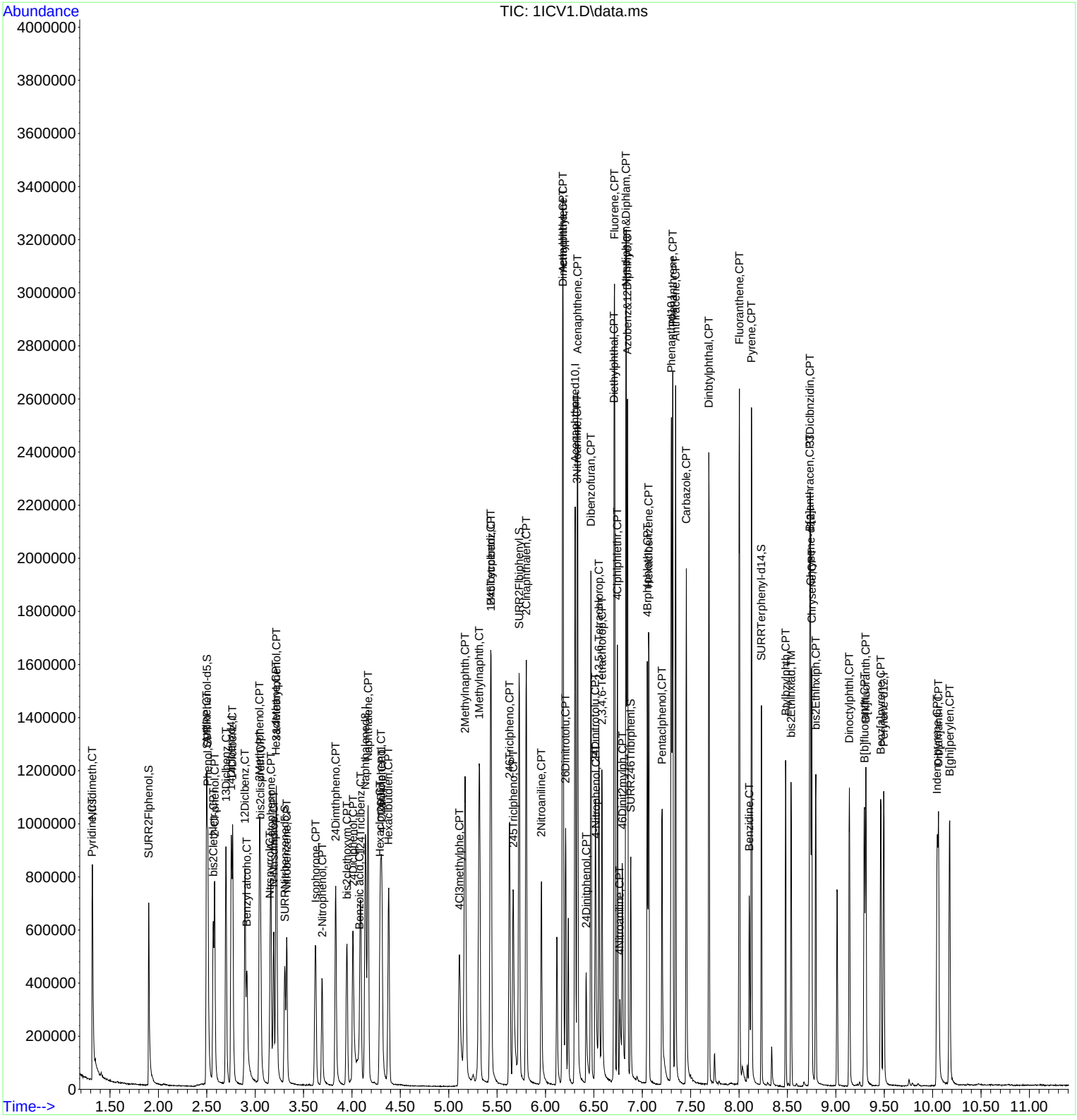
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.438	216	268117	18.7608	ug/mL	98
42) 246Triclpheno	5.628	196	177184	19.3846	ug/mL	98
43) 245Triclpheno	5.668	196	203662	20.3790	ug/mL	99
45) 2Clnaphthalen	5.801	162	542247	19.6719	ug/mL	99
46) 2Nitroaniline	5.958	65	112625	20.7013	ug/mL	97
47) Acnaphthylene	6.182	152	775447	20.0092	ug/mL	99
48) Dimethylphtha	6.179	163	482970	17.9904	ug/mL	99
49) 26Dinitrotolu	6.208	165	130041	19.1691	ug/mL	98
50) Acenaphthene	6.333	154	422090	19.1425	ug/mL	98
51) 3Nitroaniline	6.327	138	125995	19.9802	ug/mL	100
52) 24Dinitphenol	6.421	184	81178	19.0170	ug/mL	95
53) Dibenzofuran	6.469	168	667548	18.8037	ug/mL	99
54) 24Dinitrotolu	6.514	165	172460	20.2594	ug/mL	95
55) 4-Nitrophenol	6.520	139	98187	20.2960	ug/mL	95
56) 2,3,5,6-Tetrachlorop	6.551	232	140384	21.0594	ug/mL	97
57) 2,3,4,6-Tetrachlorop	6.583	232	147217	18.5332	ug/mL	96
58) Fluorene	6.713	166	490637	19.1055	ug/mL	99
59) 4Clphlphlethr	6.742	204	248206	18.7394	ug/mL	95
60) Diethylphthal	6.708	149	494353	18.9758	ug/mL	98
61) 4Nitroaniline	6.767	138	128774	20.5865	ug/mL	96
64) 46Dinit2mylph	6.796	198	101062	19.4309	ug/mL	98
65) Ntrsdiphlam&Diphlam	6.833	169	591222	37.8327	ug/mL	98
66) Azobenz&12Diphlhyd	6.847	182	207016	37.5316	ug/mL	93
67) 4Brphlphlethr	7.051	248	159345	18.7928	ug/mL	96
68) Hexaclbenzene	7.066	284	165554	18.5514	ug/mL	97
69) Pentaclphenol	7.205	266	120450	21.4390	ug/mL	99
70) Phenanthrene	7.316	178	708563	18.2243	ug/mL	100
71) Anthracene	7.344	178	735084	18.2002	ug/mL	99
72) Carbazole	7.455	167	650541	17.0542	ug/mL	100
73) Dinbtylphthal	7.688	149	944264	18.2121	ug/mL	99
74) Fluoranthene	8.003	202	848467	18.5635	ug/mL	100
76) Benzidine	8.106	184	249622	22.0542	ug/mL	100
77) Pyrene	8.128	202	734788	18.9993	ug/mL	99
79) Btylbzylphth	8.481	149	212915	19.6599	ug/mL	100
80) bis2Ethlhxlad	8.538	129	162428	18.4226	ug/mL	99
81) 33Diclbnzidin	8.734	252	81245	17.3852	ug/mL	95
82) B[a]anthracen	8.731	228	339320	19.4482	ug/mL	98
83) Chrysene	8.751	228	321939	19.8882	ug/mL	99
84) bis2Ethlhxlph	8.793	149	288364	19.9789	ug/mL	96
85) Dinoctylphthl	9.140	149	510053	19.0130	ug/mL	99
87) B[b]fluoranth	9.296	252	333714	18.2638	ug/mL	99
88) B[k]fluoranth	9.310	252	280595	16.6480	ug/mL	98
89) Benz[a]pyrene	9.464	252	335083	18.7595	ug/mL	98
90) Indeno-pyrene	10.046	276	372693	18.9699	ug/mL	99
91) Dib[ah]anthr	10.061	278	284906	19.5133	ug/mL	99
92) B[ghi]perylen	10.177	276	334607	19.0672	ug/mL	97

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICV1.D Vial: 18
Acq On : 5 Aug 2013 17:10 Operator: RPN
Sample : ICV 20ug/ml SVMS5790 Inst : SVMS1
Misc : 500uL+5ul IS S2810D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:30:50 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Initial Calibration Verification Report

Data File Name	1ICV2R.D
Data File Path	C:\INSTARCH\Data\1S080513\
Operator	RPN
Date Acquired	8/5/2013 17:47
Acq. Method File	1S080513.M
Sample Name	ICV 40ug/ml SVMS5790A
Misc Info	500uL+5ul IS S2810D
Vial Number	19
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	80-120 %REC
1)	14Diclbenzd4	2.75	20.00	ug/mL	147741	ISTD
2)	Ntrsdimeth	1.32	39.62	ug/mL	213083	99
3)	Pyridine	1.31	40.72	ug/mL	411043	102
4)	SURR2Flphenol	1.90	97.44	%REC	392408	97
5)	Aniline	2.50	39.16	ug/mL	517603	98
6)	bis2Clethletr	2.57	37.98	ug/mL	339572	95
7)	SURRPhenol-d5	2.51	90.84	%REC	390217	91
8)	Phenol	2.52	38.01	ug/mL	479202	95
9)	2-Cl-phenol	2.58	37.83	ug/mL	406462	95
10)	13Diclbenz	2.70	35.35	ug/mL	442731	88
11)	14Diclbenz	2.77	36.28	ug/mL	429898	91
12)	12Diclbenz	2.90	35.56	ug/mL	417256	89
13)	Benzyl alcoho	2.92	41.55	ug/mL	215173	104
14)	bis2clispreth	3.06	37.72	ug/mL	567357	94
15)	2Methylphenol	3.05	37.49	ug/mL	267915	94
16)	Ntrspyrrol	3.17	40.65	ug/mL	156393	102
17)	Acetophenone	3.17	38.33	ug/mL	440487	96
18)	Hexaclethane	3.22	35.77	ug/mL	159754	89
19)	N-Ntrsdinprop	3.20	38.85	ug/mL	202583	97
20)	3&4Methylphenol	3.23	37.73	ug/mL	325390	94
21)	Naphthalened8	4.14	20.00	ug/mL	565404	ISTD
22)	SURRNitrbenzened5	3.31	179.82	%REC	294684	90
23)	Nitrobenzene	3.34	38.17	ug/mL	304425	95
24)	Isophorone	3.64	38.69	ug/mL	590285	97
25)	2-Nitrophenol	3.70	39.94	ug/mL	224818	100
26)	24Dimthpheno	3.84	45.09	ug/mL	355743	113
27)	bis2clethoxym	3.95	39.92	ug/mL	428886	100
28)	24Diclphenol	4.02	37.86	ug/mL	337696	95
29)	124Triclbenz	4.09	35.55	ug/mL	356411	89
30)	Benzoic acid	4.13	44.14	ug/mL	194806	110
31)	Naphthalene	4.17	40.88	ug/mL	1112050	102
32)	4-Cl-aniline	4.32	36.42	ug/mL	418308	91
33)	26Diclphenol	4.30	36.69	ug/mL	267408	92
34)	Hexaclprop	4.29	38.65	ug/mL	233183	97
35)	Hexaclbutdien	4.38	38.88	ug/mL	207543	97
36)	4Cl3methylphe	5.11	39.40	ug/mL	391236	98
37)	2Methylnaphth	5.17	37.50	ug/mL	1034696	94

38)	1Methylnaphth	5.32	35.06	ug/mL	857441	88
39)	Acenaphthened10	6.31	20.00	ug/mL	455715	ISTD
40)	Hxclcycpentdi	5.44	40.52	ug/mL	269988	101
41)	1245Tetrclbenz	5.44	33.70	ug/mL	472382	84
42)	246Triclpheno	5.63	38.80	ug/mL	347846	97
43)	245Triclpheno	5.67	40.63	ug/mL	398271	102
44)	SURR2Flbiphenyl	5.73	166.72	%REC	998862	83
45)	2Clnaphthalen	5.81	36.32	ug/mL	981974	91
46)	2Nitroaniline	5.96	41.90	ug/mL	223600	105
47)	Acnaphthylene	6.19	43.10	ug/mL	1336089	108
48)	Dimethylphtha	6.19	36.46	ug/mL	799070	91
49)	26Dinitrotolu	6.22	35.74	ug/mL	237792	89
50)	Acenaphthene	6.34	40.85	ug/mL	738062	102
51)	3Nitroaniline	6.34	34.63	ug/mL	214189	87
52)	24Dinitphenol	6.43	42.85	ug/mL	178570	107
53)	Dibenzofuran	6.47	34.42	ug/mL	1198617	86
54)	24Dinitrotolu	6.52	35.71	ug/mL	298131	89
55)	4-Nitrophenol	6.53	39.68	ug/mL	188272	99
56)	2,3,5,6-Tetrachlorop	6.56	40.54	ug/mL	265052	101
57)	2,3,4,6-Tetrachlorop	6.59	33.58	ug/mL	261632	84
58)	Fluorene	6.72	40.61	ug/mL	819030	102
59)	4Clphlphlethr	6.75	40.42	ug/mL	431020	101
60)	Diethylphthal	6.72	37.55	ug/mL	790999	94
61)	4Nitroaniline	6.78	41.57	ug/mL	255019	104
62)	SURR246Tribrphenl	6.89	87.54	%REC	132011	88
63)	Phenanthrd10	7.30	20.00	ug/mL	710787	ISTD
64)	46Dinit2mylph	6.80	40.64	ug/mL	197980	102
65)	Ntrsdiphlam&Diphlam	6.84	77.83	ug/mL	911924	97
66)	Azobenz&12Diphlhyd	6.86	74.36	ug/mL	323571	93
67)	4Brphlphlethr	7.05	33.56	ug/mL	266550	84
68)	Hexaclbenzene	7.07	33.15	ug/mL	277099	83
69)	Pentaclphenol	7.21	43.99	ug/mL	231492	110
70)	Phenanthrene	7.32	33.15	ug/mL	1207356	83
71)	Anthracene	7.35	32.27	ug/mL	1220925	81
72)	Carbazole	7.46	32.51	ug/mL	1161601	81
73)	Dinbtylphthal	7.69	32.71	ug/mL	1588406	82
74)	Fluoranthene	8.01	33.22	ug/mL	1422200	83
75)	Chrysene-d12	8.74	20.00	ug/mL	266440	ISTD
76)	Benzidine	8.11	51.34	ug/mL	503913	128 #
77)	Pyrene	8.13	36.06	ug/mL	1209389	90
78)	SURRTerphenyl-d14	8.23	170.01	%REC	451719	85
79)	Btylbzylphth	8.48	40.08	ug/mL	376382	100
80)	bis2Ethlhxlad	8.54	35.87	ug/mL	274275	90
81)	33Diclbnzidin	8.74	38.72	ug/mL	156902	97
82)	B[a]anthracen	8.74	39.26	ug/mL	593974	98
83)	Chrysene	8.76	39.08	ug/mL	548526	98
84)	bis2Ethlhxlph	8.79	39.15	ug/mL	489989	98
85)	Dinoctylphthl	9.14	39.07	ug/mL	908961	98
86)	Perylene-d12	9.50	20.00	ug/mL	315734	ISTD
87)	B[b]fluoranth	9.30	35.97	ug/mL	646154	90

88) B[k]fluoranth	9.32	32.02	ug/mL	530599	80
89) Benz[a]pyrene	9.47	35.11	ug/mL	616513	88
90) Indeno-pyrene	10.06	35.37	ug/mL	683213	88
91) Dib[ah]anthr	10.07	35.43	ug/mL	508597	89
92) B[ghi]perylen	10.19	34.89	ug/mL	602013	87

(#) = recovery out of range Average Percent Recovery = 95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICV2R.D Vial: 19
Acq On : 5 Aug 2013 17:47 Operator: RPN
Sample : ICV 40ug/ml SVMS5790A Inst : SVMS1
Misc : 500uL+5ul IS S2810D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:27:36 2013

RPN
08/05/13

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

MI

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.753	152	147741	20.00	ug/mL	0.00
21) Naphthalened8	4.145	136	565404	20.00	ug/mL	0.00
39) Acenaphthened10	6.310	164	455715	20.00	ug/mL	0.00
63) Phenanthrd10	7.305	188	710787	20.00	ug/mL	0.00
75) Chrysene-d12	8.742	240	266440	20.00	ug/mL	0.00
86) Perylene-d12	9.501	264	315734	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	392408	97.44	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 97.44%			
7) SURRPhenol-d5	2.505	99	390217	90.84	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 90.84%			
22) SURRNitrbenzened5	3.312	82	294684	179.82	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 179.82%#			
44) SURR2Flbiphenyl	5.733	172	998862	166.72	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 166.72%#			
62) SURR246Tribrphenl	6.887	330	132011	87.54	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 87.54%			
78) SURRTerphenyl-d14	8.234	244	451719	170.01	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 170.01%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.320	74	213083	39.6163	ug/mL	96
3) Pyridine	1.315	79	411043	40.7230	ug/mL	95
5) Aniline	2.500	93	517603	39.1572	ug/mL	87
6) bis2Clethletr	2.571	93	339572	37.9810	ug/mL	95
8) Phenol	2.517	94	479202	38.0055	ug/mL	98
9) 2-Cl-phenol	2.582	128	406462	37.8262	ug/mL	98
10) 13Diclbenz	2.699	146	442731	35.3452	ug/mL	97
11) 14Diclbenz	2.770	146	429898	36.2789	ug/mL	98
12) 12Diclbenz	2.897	146	417256	35.5634	ug/mL	98
13) Benzyl alcoho	2.923	108	215173	41.5518	ug/mL	92
14) bis2clispreth	3.055	45	567357	37.7178	ug/mL	88
15) 2Methylphenol	3.054	107	267915	37.4852	ug/mL	99
16) Ntrspyrrol	3.167	100	156393	40.6477	ug/mL	94
17) Acetophenone	3.170	105	440487	38.3342	ug/mL	98
18) Hexaclethane	3.219	117	159754	35.7729	ug/mL	98
19) N-Ntrsdinprop	3.204	70	202583	38.8519	ug/mL	95
20) 3&4Methylphenol	3.233	107	325390	37.7329	ug/mL	97
23) Nitrobenzene	3.335	77	304425	38.1726	ug/mL	99
24) Isophorone	3.636	82	590285	38.6870	ug/mL	99
25) 2-Nitrophenol	3.696	139	224818	39.9356	ug/mL	98
26) 24Dimthpheno	3.841	122	355743	45.0923	ug/mL	95
27) bis2clethoxym	3.954	93	428886	39.9173	ug/mL	98
28) 24Diclphenol	4.017	162	337696	37.8606	ug/mL	99
29) 124Triclbenz	4.094	180	356411	35.5525	ug/mL	99
30) Benzoic acid	4.128	122	194806	44.1368	ug/mL	85
31) Naphthalene	4.170	128	1112050	40.8784	ug/mL	99
32) 4-Cl-aniline	4.315	127	418308	36.4216	ug/mL	98
33) 26Diclphenol	4.304	162	267408	36.6924	ug/mL	99
34) Hexaclprop	4.293	213	233183	38.6492	ug/mL	99
35) Hexaclbutdien	4.381	225	207543	38.8818	ug/mL	94
36) 4Cl3methylphe	5.114	107	391236	39.3999	ug/mL	95
37) 2Methylnaphth	5.173	142	1034696	37.4951	ug/mL	100
38) 1Methylnaphth	5.324	141	857441	35.0597	ug/mL	98
40) Hxclcycpentdi	5.441	237	269988	40.5210	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICV2R.D Vial: 19
Acq On : 5 Aug 2013 17:47 Operator: RPN
Sample : ICV 40ug/ml SVMS5790A Inst : SVMS1
Misc : 500uL+5ul IS S2810D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:27:36 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

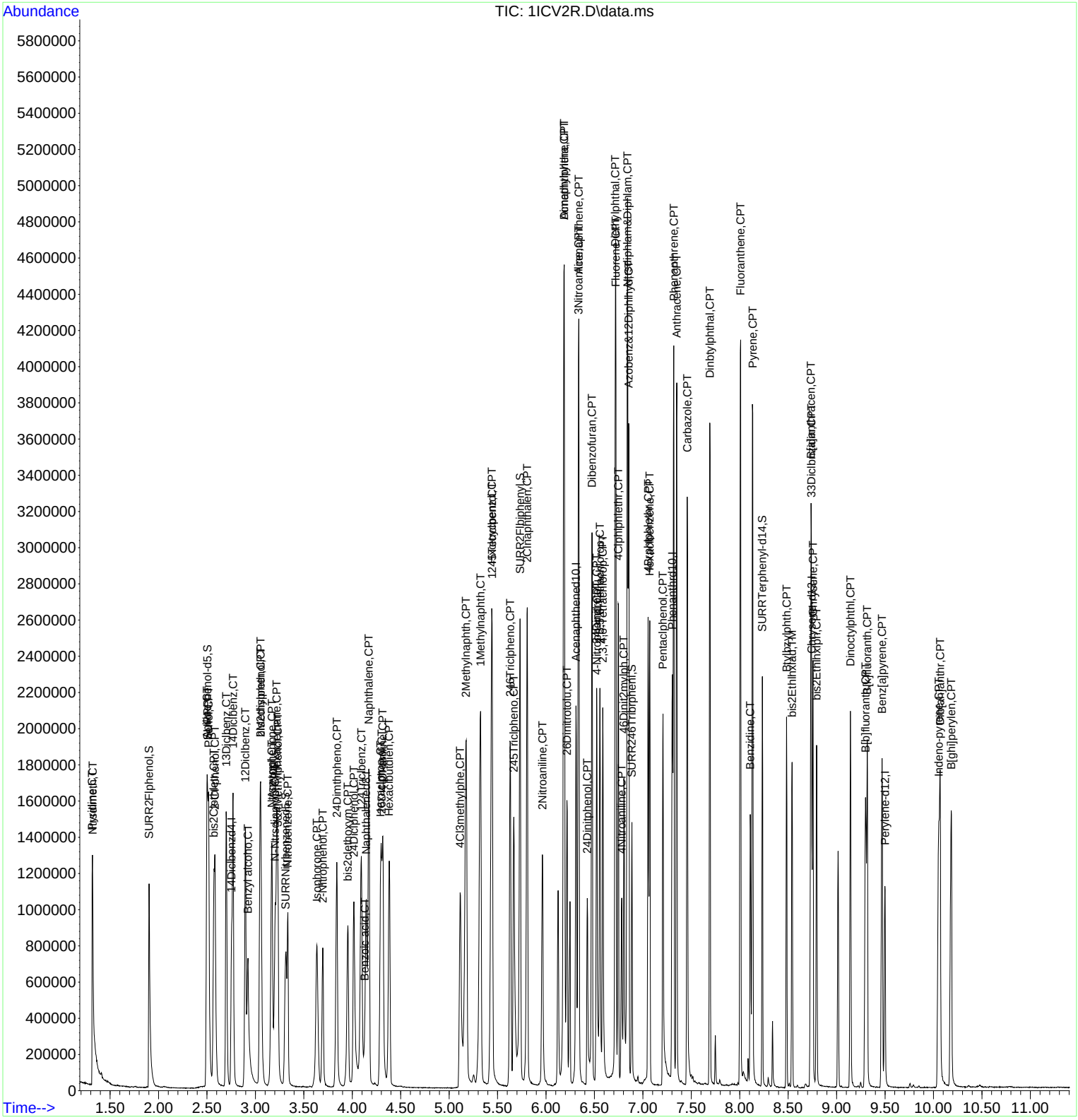
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.443	216	472382	33.7002	ug/mL	98
42) 246Triclpheno	5.631	196	347846	38.8000	ug/mL	99
43) 245Triclpheno	5.668	196	398271	40.6315	ug/mL	99
45) 2Clnaphthalen	5.807	162	981974	36.3214	ug/mL	99
46) 2Nitroaniline	5.963	65	223600	41.9032	ug/mL	99
47) Acnaphthylene	6.188	152	1336089	43.1013	ug/mL	99
48) Dimethylphtha	6.188	163	799070	36.4619	ug/mL	99
49) 26Dinitrotolu	6.216	165	237792	35.7380	ug/mL	99
50) Acenaphthene	6.338	154	738062	40.8481	ug/mL	99
51) 3Nitroaniline	6.336	138	214189	34.6302	ug/mL	96
52) 24Dinitphenol	6.427	184	178570	42.8506	ug/mL	96
53) Dibenzofuran	6.475	168	1198617	34.4233	ug/mL	99
54) 24Dinitrotolu	6.523	165	298131	35.7073	ug/mL	89
55) 4-Nitrophenol	6.526	139	188272	39.6784	ug/mL	98
56) 2,3,5,6-Tetrachlorop	6.557	232	265052	40.5388	ug/mL	99
57) 2,3,4,6-Tetrachlorop	6.586	232	261632	33.5811	ug/mL	97
58) Fluorene	6.719	166	819030	40.6149	ug/mL	99
59) 4Clphlphlethr	6.748	204	431020	40.4177	ug/mL	98
60) Diethylphthal	6.716	149	790999	37.5512	ug/mL	99
61) 4Nitroaniline	6.782	138	255019	41.5661	ug/mL	98
64) 46Dinit2mylph	6.804	198	197980	40.6386	ug/mL	91
65) Ntrsdiphlam&Diphlam	6.841	169	911924	77.8328	ug/mL	99
66) Azobenz&12Diphlhyd	6.856	182	323571	74.3640	ug/mL	91
67) 4Brphlphlethr	7.054	248	266550	33.5617	ug/mL	98
68) Hexaclbenzene	7.072	284	277099	33.1502	ug/mL	97
69) Pentaclphenol	7.208	266	231492	43.9893	ug/mL	96
70) Phenanthrene	7.319	178	1207356	33.1528	ug/mL	99
71) Anthracene	7.350	178	1220925	32.2732	ug/mL	99
72) Carbazole	7.458	167	1161601	32.5107	ug/mL	99
73) Dinbtylphthal	7.691	149	1588406	32.7070	ug/mL	100
74) Fluoranthene	8.009	202	1422200	33.2199	ug/mL	100
76) Benzidine	8.109	184	503913	51.3402	ug/mL	99
77) Pyrene	8.134	202	1209389	36.0609	ug/mL	99
79) Btylbzylphth	8.484	149	376382	40.0773	ug/mL	98
80) bis2Ethlhxlad	8.541	129	274275	35.8732	ug/mL	99
81) 33Diclbnzidin	8.739	252	156902	38.7172	ug/mL	94
82) B[a]anthracen	8.737	228	593974	39.2583	ug/mL	99
83) Chrysene	8.757	228	548526	39.0762	ug/mL	99
84) bis2Ethlhxlph	8.793	149	489989	39.1481	ug/mL	97
85) Dinoctylphthl	9.143	149	908961	39.0727	ug/mL	100
87) B[b]fluoranth	9.299	252	646154	35.9710	ug/mL	98
88) B[k]fluoranth	9.316	252	530599m	32.0220	ug/mL	
89) Benz[a]pyrene	9.470	252	616513	35.1085	ug/mL	99
90) Indeno-pyrene	10.055	276	683213	35.3729	ug/mL	98
91) Dib[ah]anthr	10.069	278	508597	35.4326	ug/mL	94
92) B[ghi]perylen	10.186	276	602013	34.8945	ug/mL	97

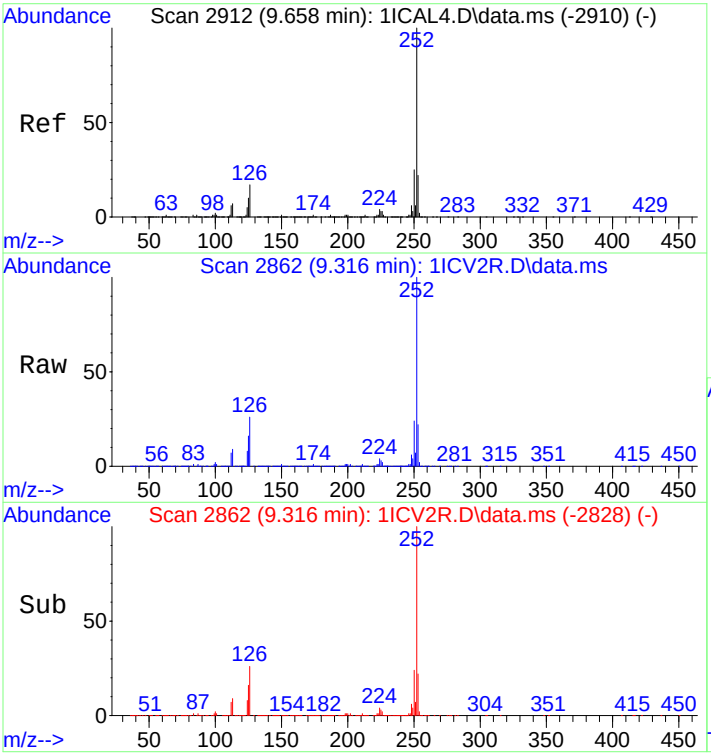
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S080513\1ICV2R.D Vial: 19
Acq On : 5 Aug 2013 17:47 Operator: RPN
Sample : ICV 40ug/ml SVMS5790A Inst : SVMS1
Misc : 500uL+5ul IS S2810D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 06 15:27:36 2013

Quant Method : C:\INSTARCH\Methods\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



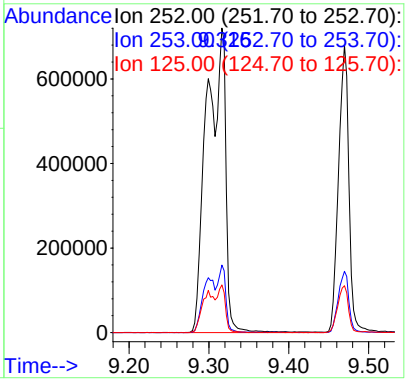


#88
B[k]fluoranth
Concen: 71.42 ug/mL
RT: 9.316 min Scan# 2862
Delta R.T. 0.006 min
Lab File: 1ICV2R.D
Acq: 5 Aug 2013 17:47

Tgt Ion:252 Resp: 1183350

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	52.3
125	15.6	0.0	45.8

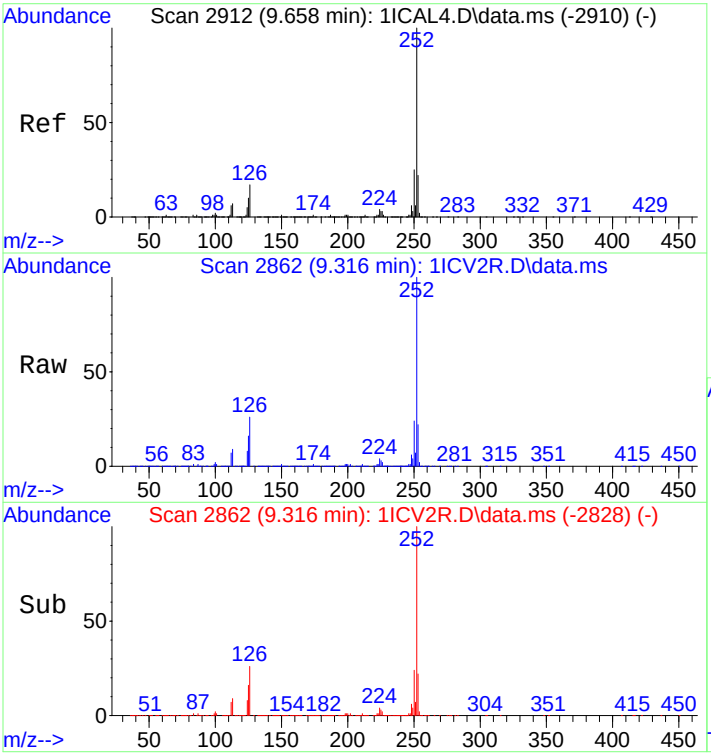
Before Manual Integration



Reason#3

ORPN
08/05/13

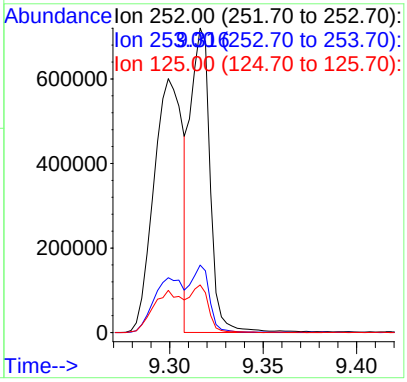
JJY
9/5/13



#88
B[k]fluoranth
Concen: 32.02 ug/mL m
RT: 9.316 min Scan# 2862
Delta R.T. 0.006 min
Lab File: 1ICV2R.D
Acq: 5 Aug 2013 17:47

Tgt Ion:252 Resp: 530599

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	52.3
125	15.6	0.0	45.8



After Manual Integration

Reason#3

RPN
08/05/13

JJY
9/5/13

Injection Log Summary Report

Method : Y:\METHOD\2P080713.M (RTE Integrator)
Title : Method for 8270 analysis for instrument SVMS2
Start (Tune) File ID : Y:\DATA\2S080713\2DFTPP15.D
Injection Date : 7 Aug 2013 Log Time Period (hrs) : ALL
Injection Time : 10:00 Total files within period : 15
Sample Directory : Y:\DATA\2S080713\

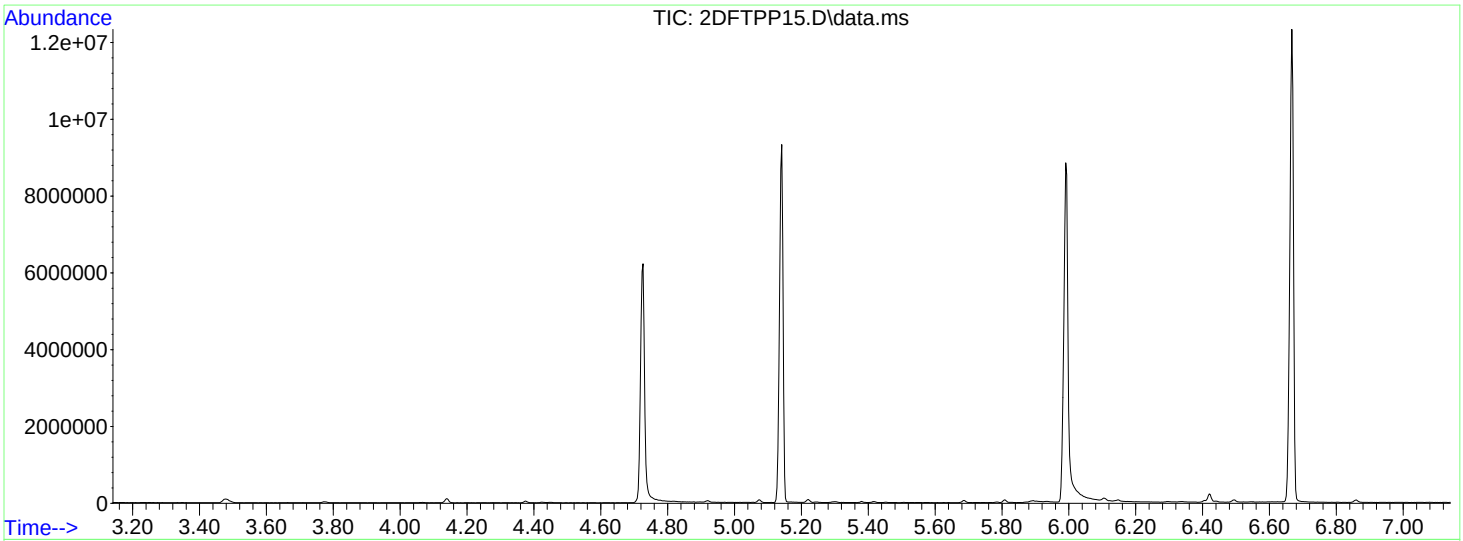
Injection Log Summary Table

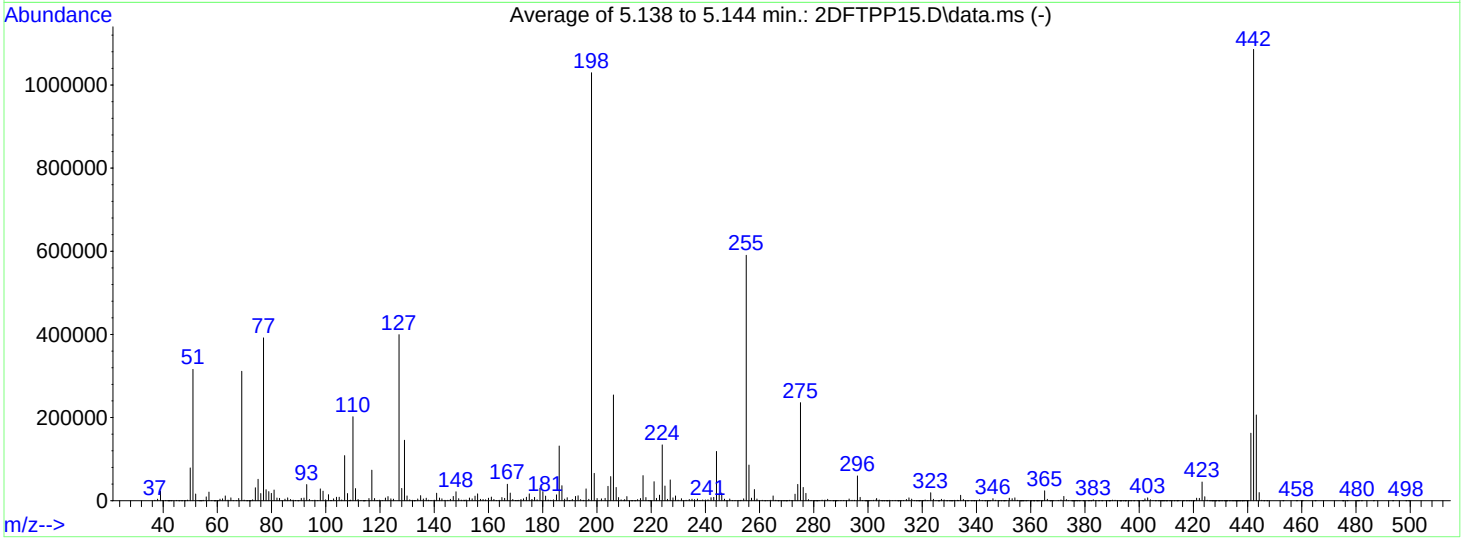
File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
2IB03	1.00	1.00	1.00	InstrumentBlank 500uL+5uL IS SVMS5788	7 Aug 2013	10:16
2ICAL7	1.00	1.00	1.00	ICAL 2000 ng/mL SVMS5720 500uL+5uL IS SVMS5788	7 Aug 2013	10:36
2ICAL6	1.00	1.00	1.00	ICAL 1500 ng/mL SVMS5719 500uL+5uL IS SVMS5788	7 Aug 2013	10:56
2ICAL5	1.00	1.00	1.00	ICAL 1000 ng/mL SVMS5718 500uL+5uL IS SVMS5788	7 Aug 2013	11:16
2ICAL4	1.00	1.00	1.00	ICAL 500 ng/mL SVMS5717 500uL+5uL IS SVMS5788	7 Aug 2013	11:36
2ICAL3	1.00	1.00	1.00	ICAL 100 ng/mL SVMS5716 500uL+5uL IS SVMS5788	7 Aug 2013	11:55
2ICAL2	1.00	1.00	1.00	ICAL 50 ng/mL SVMS5715 500uL+5uL IS SVMS5788	7 Aug 2013	12:15
2ICAL1	1.00	1.00	1.00	ICAL 20 ng/mL SVMS5714 500uL+5uL IS SVMS5788	7 Aug 2013	12:35
2ICV1	1.00	1.00	1.00	ICV1 500 ng/mL SVMS5721 500uL+5uL IS SVMS5788	7 Aug 2013	12:55
2ICV2	1.00	1.00	1.00	ICV2 1500 ng/mL SVMS5722 500uL+5uL IS SVMS5788	7 Aug 2013	13:15

Data File : C:\INSTARCH\DATA\2S080713\2DFTPP15.D Vial: 1
Acq On : 7 Aug 2013 10:00 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/07/13

Method : C:\INSTARCH\METHOD\2P080713.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Wed Aug 07 13:09:11 2013





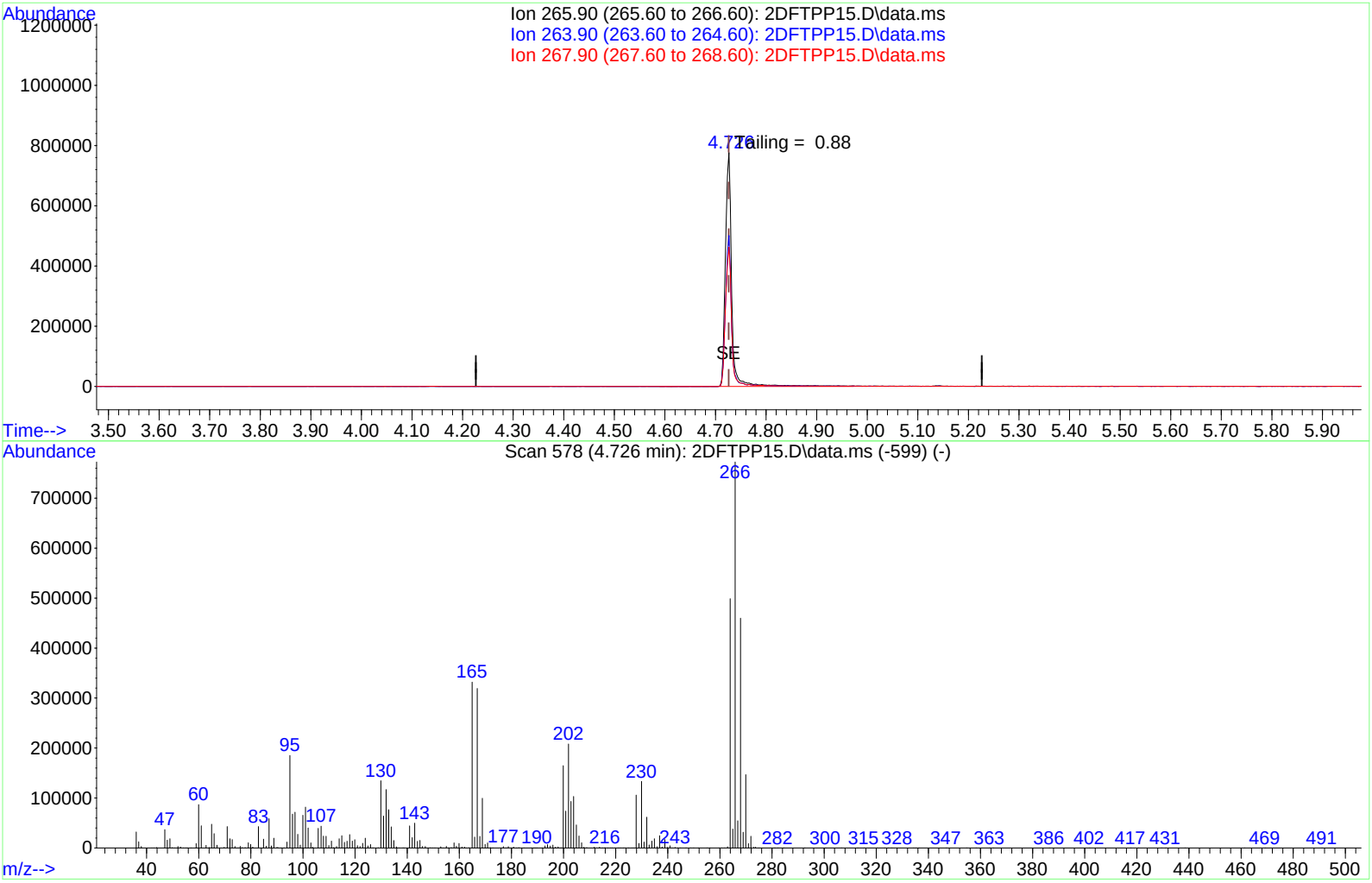
AutoFind: Scans 723, 724, 725; Background Corrected with Scan 715

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	29.1	316096	PASS
68	69	0.00	2	1.7	5343	PASS
70	69	0.00	2	0.5	1431	PASS
127	442	10	80	36.8	399616	PASS
197	198	0.00	2	0.3	3474	PASS
198	442	50	100	94.8	1029482	PASS
199	198	5	9	6.4	65876	PASS
275	442	10	60	21.7	235968	PASS
365	198	1	100	2.3	23965	PASS
441	442	0.01	24	15.0	162666	PASS
442	442	50	100	100.0	1085760	PASS
443	442	15	24	19.0	206144	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S080713\2DFTPP15.D Vial: 1
Acq On : 7 Aug 2013 10:00 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 17:08:11 2013

Quant Method : C:\INSTARCH\METHOD\2SIMDFT.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Aug 07 17:08:01 2013
Response via : Initial Calibration
DataAcq Meth:2SIMDFT.M



TIC: 2DFTPP15.D\data.ms

(1) Pentachlorophenol

4.726min (0.000) 187.03 ng

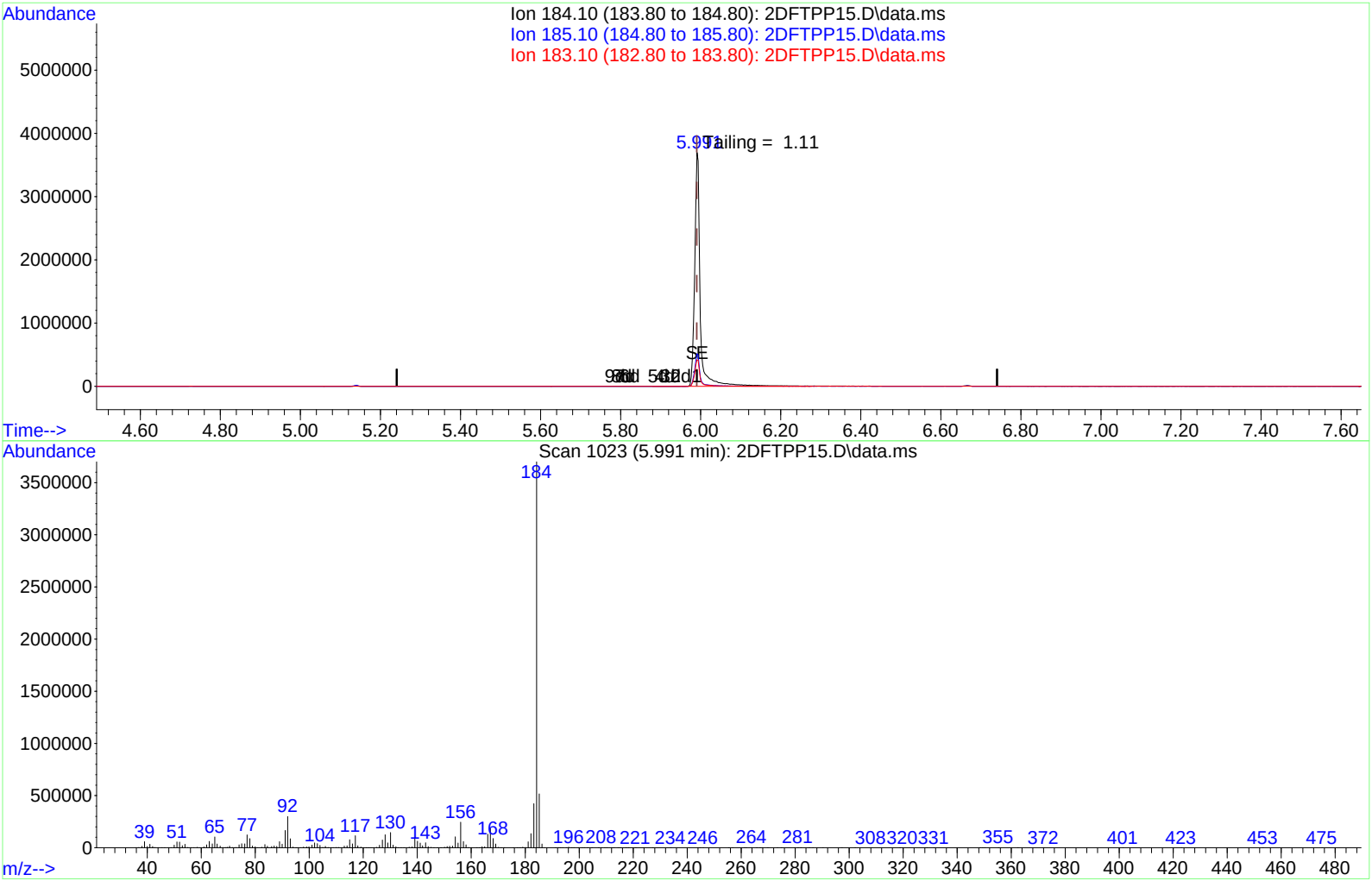
response 646535

Ion	Exp%	Act%
265.90	100	100
263.90	63.20	64.52
267.90	63.10	59.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S080713\2DFTPP15.D Vial: 1
Acq On : 7 Aug 2013 10:00 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 17:08:11 2013

Quant Method : C:\INSTARCH\METHOD\2SIMDFT.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Aug 07 17:08:01 2013
Response via : Initial Calibration
DataAcq Meth:2SIMDFT.M



TIC: 2DFTPP15.D\data.ms

(3) Benzidine

5.991min (0.000) 188.01 ng

response 3581118

Ion	Exp%	Act%
184.10	100	100
185.10	15.00	13.98
183.10	11.40	11.30
0.00	0.00	0.00

Data File	: 2DFTPP15.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S080713\	Operator	: RPN
Date Acquired	: 8/7/2013 10:00	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS5691	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2SIMDFT.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Wed Aug 07 17:08:01 2013

Compound	R.T.	QIon	Response
1) Pentachlorophenol	4.73	266	646535
2) DFTPP	5.14	198	821388
3) Benzidine	5.99	184	3581118
4) DDE	6.15	246	4336
5) DDD	6.42	235	34379
6) DDT	6.67	235	1985095

DDT %Degradation

$$\frac{\text{DDD + DDE}}{\text{DDD + DDE + DDT}} \times 100\% = 1.91\ \%$$

Response Factor Report SVMS2

Method Path : C:\INSTARCH\METHOD\
Method File : 2P080713.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Aug 08 09:30:50 2013
Response Via : Initial Calibration

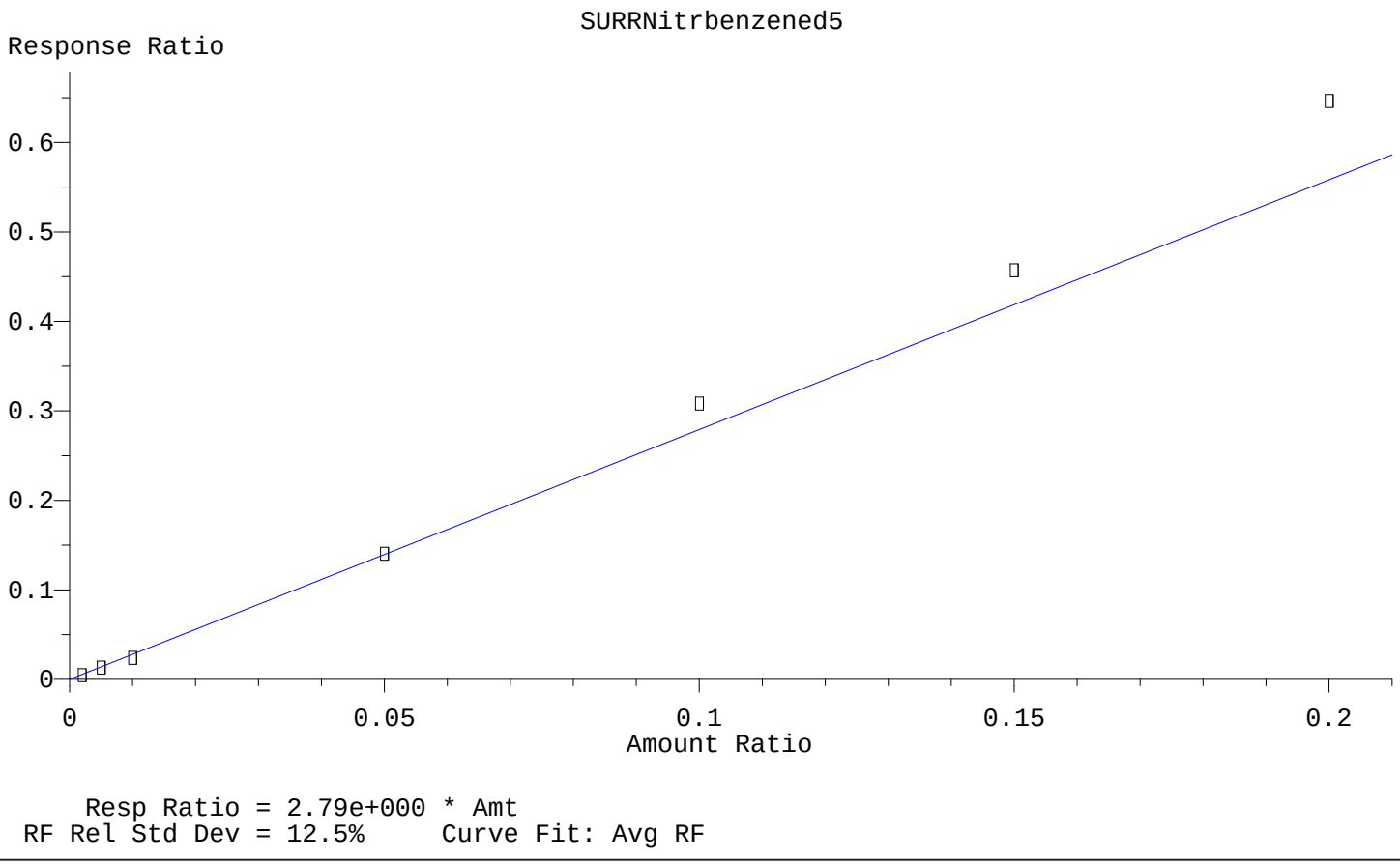
Calibration Files
0.02=2ICAL1.D 0.05=2ICAL2.D 0.1 =2ICAL3.D 0.5 =2ICAL4.D 1.0 =2ICAL5.D 1.5 =2ICAL6.D 2.0 =2ICAL7.D

		Compound	0.02	0.05	0.1	0.5	1.0	1.5	2.0	Avg	%RSD
1)	I	14Diclbenzd4	----------ISTD----------								
2)	I	Naphthalened8	----------ISTD----------								
3)	S	SURRNitrbenzened5	2.325	2.642	2.406	2.806	3.080	3.047	3.231	2.791	12.50
4)	CPT	Naphthalene	0.926	0.889	0.858	0.866	0.894	0.851	0.883	0.881	2.90
5)	CPT	2Methylnaphth	0.409	0.444	0.459	0.539	0.593	0.579	0.604	0.518	15.36
6)	TM	1Methylnaphth	0.763	0.692	0.657	0.654	0.665	0.626	0.640	0.671	6.79
7)	I	Acenaphthened10	----------ISTD----------								
8)	S	SURR2Flbiphenyl	1.401	1.141	1.065	1.057	1.139	1.084	1.131	1.145 E1	10.30
9)	CPT	Acnaphthylene	1.225	1.184	1.187	1.273	1.387	1.362	1.431	1.293	7.79
10)	CPT	Acenaphthene	1.016	0.980	0.939	0.965	0.998	0.941	0.970	0.973	2.91
11)	CPT	Fluorene	1.075	1.006	0.974	1.051	1.133	1.096	1.144	1.068	5.90
12)	I	Phenanthrd10	----------ISTD----------								
13)	CPT	Phenanthrene	0.964	0.855	0.803	0.800	0.862	0.826	0.852	0.852	6.49
14)	CPT	Anthracene	1.093	0.993	0.935	0.959	1.008	0.961	0.989	0.991	5.17
15)	CPT	Fluoranthene	1.253	1.147	1.051	1.085	1.153	1.087	1.115	1.127	5.87
16)	I	Chrysene-d12	----------ISTD----------								
17)	CPT	Pyrene	1.399	1.304	1.296	1.288	1.271	1.174	1.209	1.277	5.66
18)	S	SURRTerphenyl-d14	6.987	6.687	6.624	6.710	6.772	6.363	6.589	6.676	2.84
19)	CPT	B[a]anthracen	0.778	0.705	0.648	0.772	0.815	0.892	0.905	0.788#	11.82
20)	CPT	Chrysene	1.430	1.318	1.247	1.150	1.209	1.060	1.102	1.216	10.57
21)	I	Perylene-d12	----------ISTD----------								
22)	CPT	B[b]fluoranth	0.779	0.830	0.862	1.028	1.079	1.035	1.045	0.951	12.90
23)	CPT	B[k]fluoranth	1.189	1.304	1.895	1.243	1.348	1.273	1.350	1.372	17.32
24)	CPT	Benz[a]pyrene	1.155	0.981	0.917	0.938	1.047	1.034	1.078	1.021	8.15
25)	CPT	Indeno-pyrene	0.672	0.627	0.634	0.678	0.814	0.857	0.888	0.739	14.99
26)	CPT	Dib[ah]anthr	0.484	0.452	0.470	0.483	0.563	0.613	0.643	0.530	14.36
27)	CPT	B[ghi]perylen	0.746	0.671	0.683	0.665	0.759	0.776	0.800	0.729	7.49

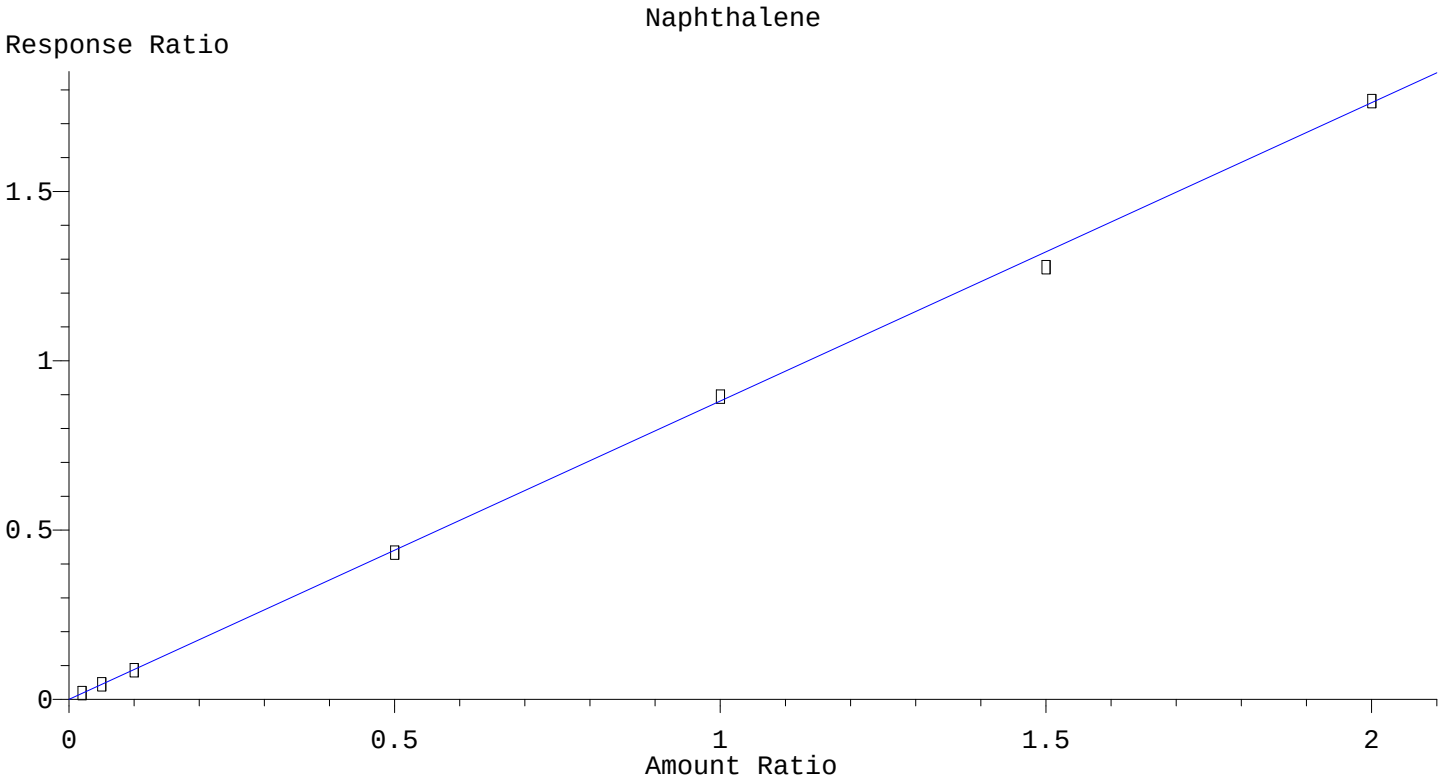
(#) = Out of Range

Page 459

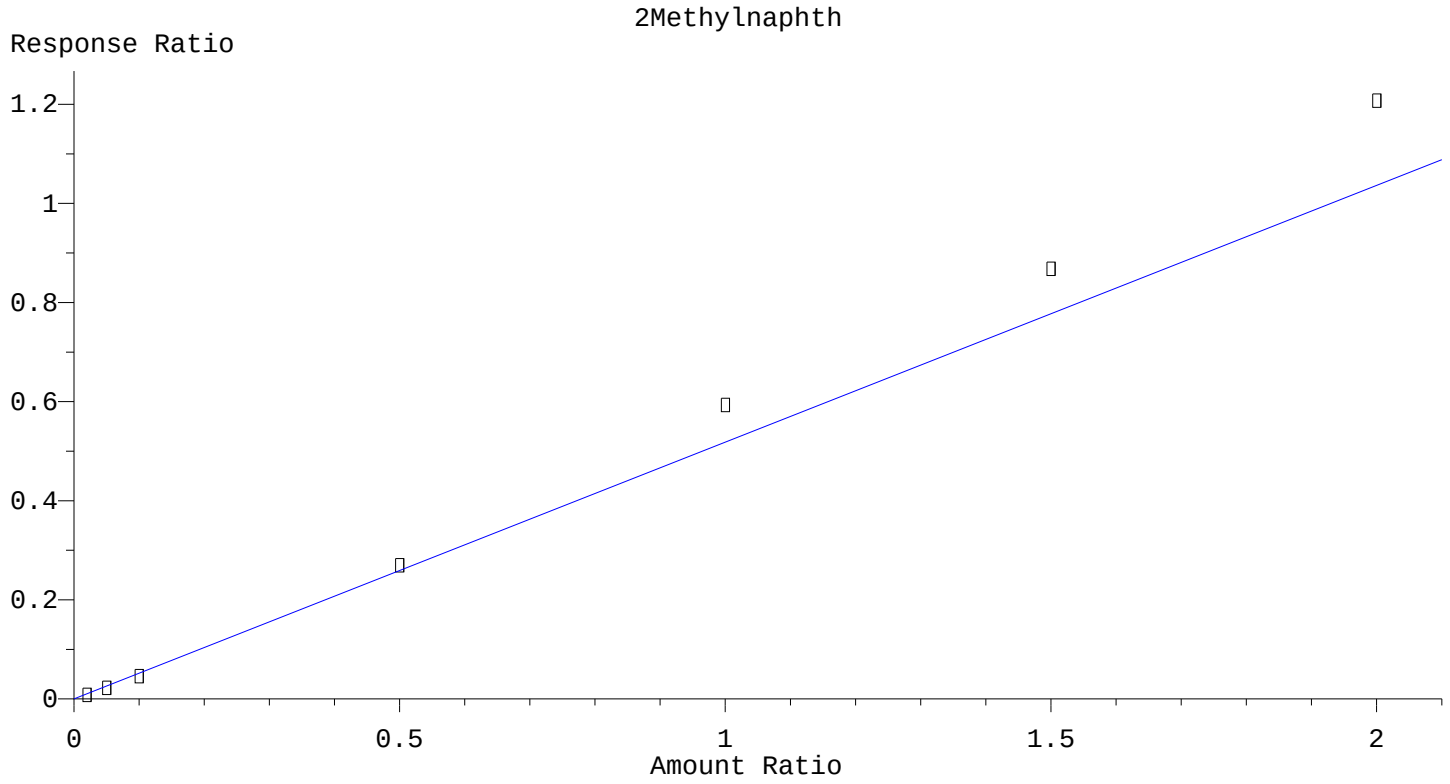
Minimum RF <0.8 recommended in 8270D



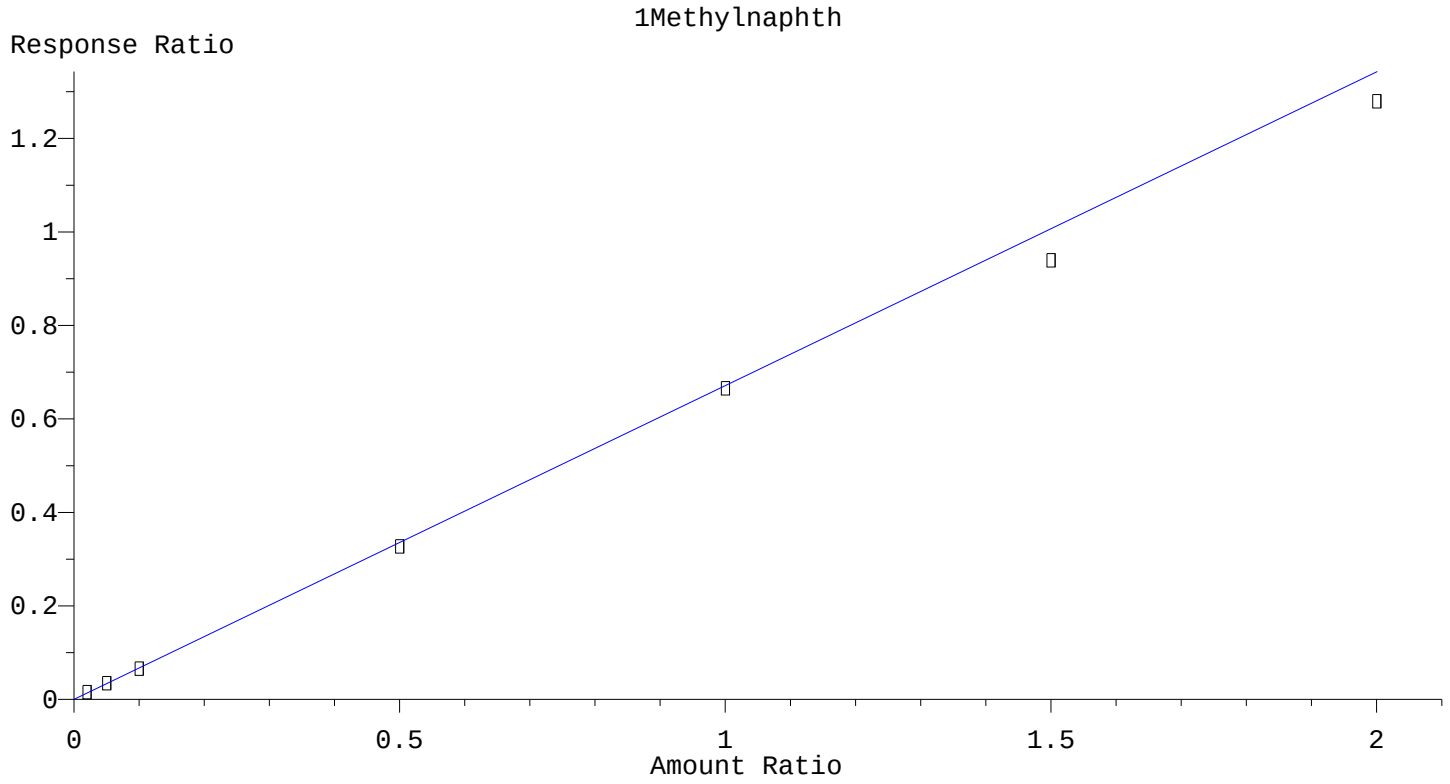
Resp Ratio = 2.79e+000 * Amt
RF Rel Std Dev = 12.5% Curve Fit: Avg RF



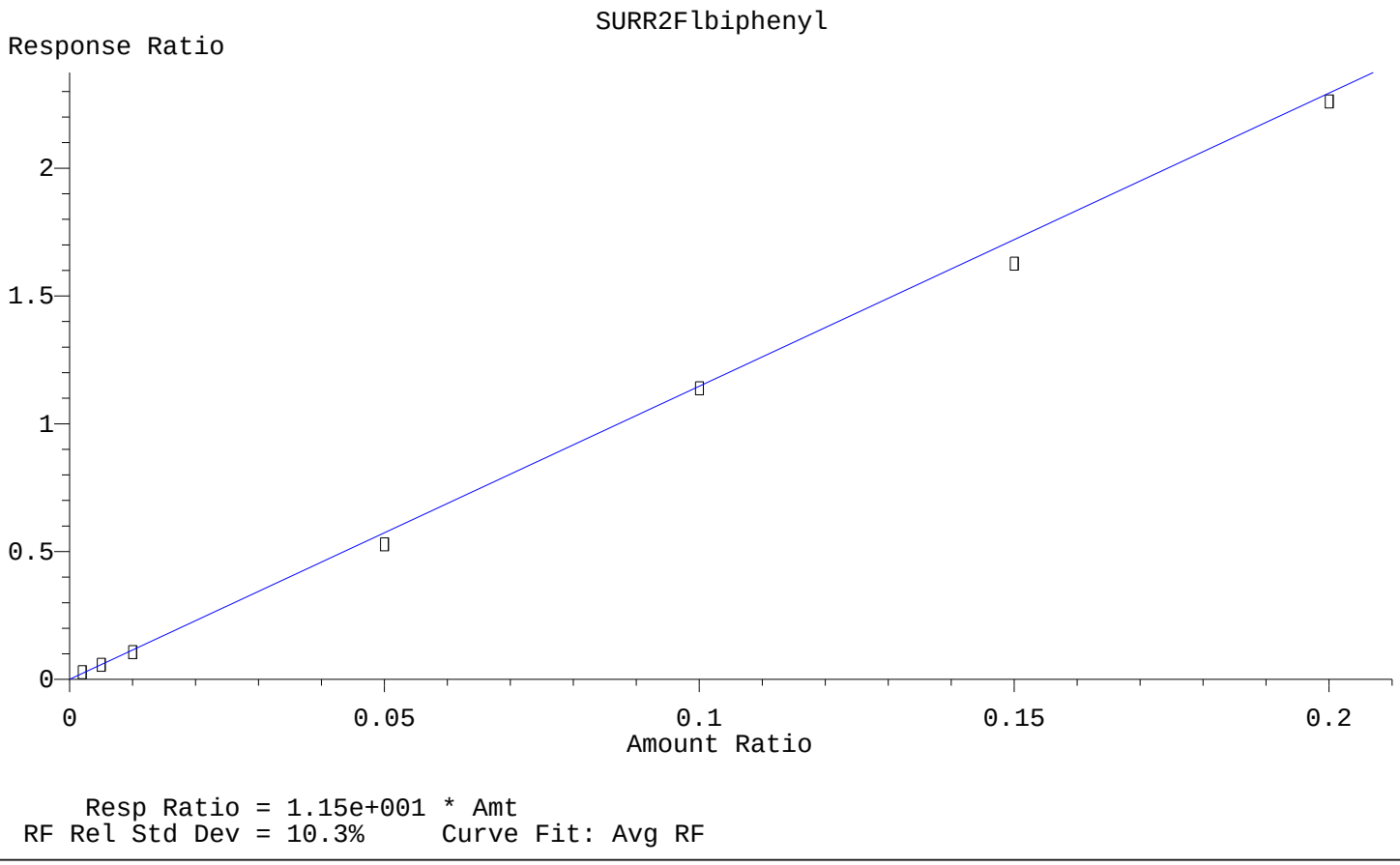
Resp Ratio = 8.81e-001 * Amt
RF Rel Std Dev = 2.9% Curve Fit: Avg RF



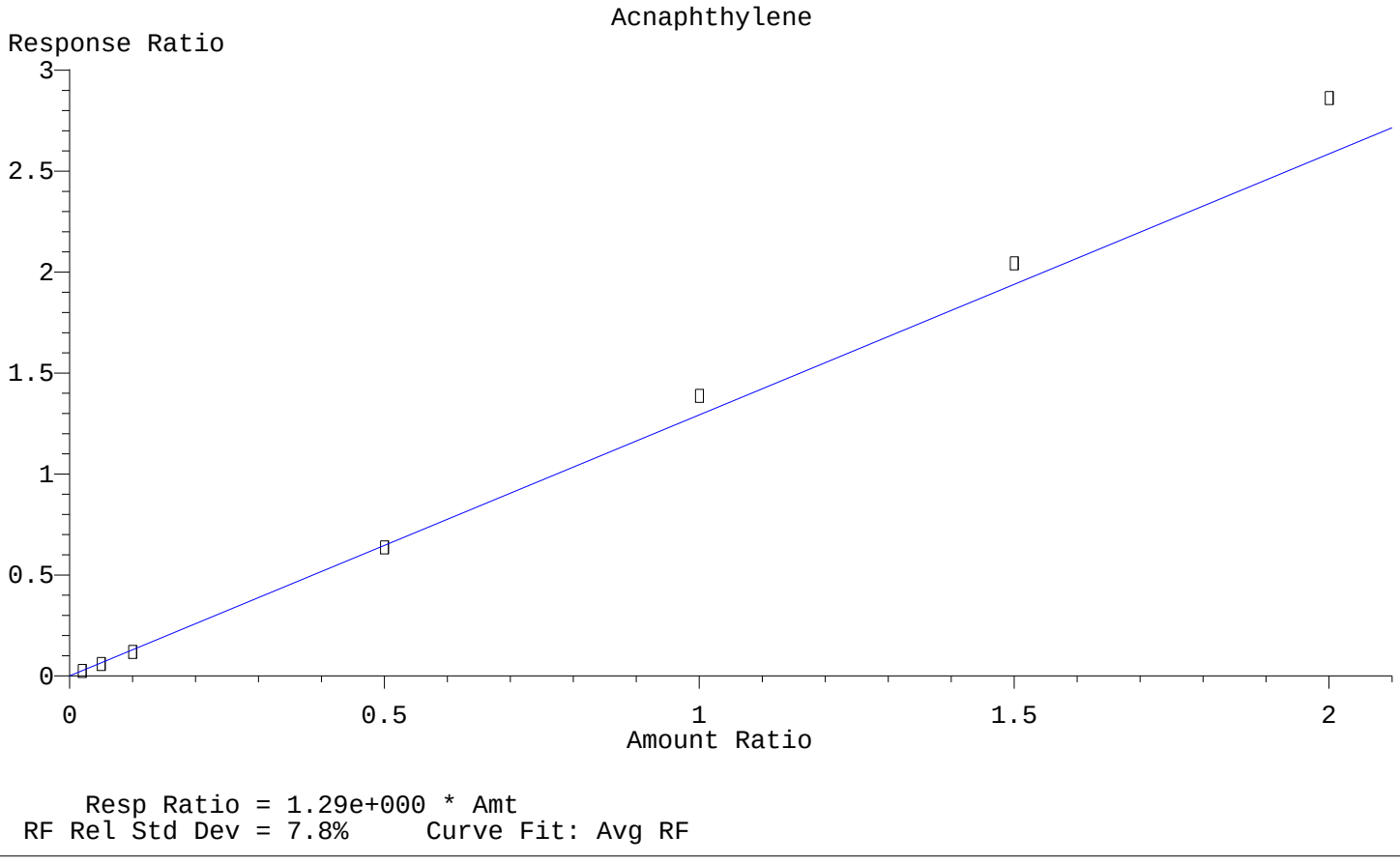
Resp Ratio = 5.18e-001 * Amt
RF Rel Std Dev = 15.4% Curve Fit: Avg RF



Resp Ratio = 6.71e-001 * Amt
RF Rel Std Dev = 6.8% Curve Fit: Avg RF

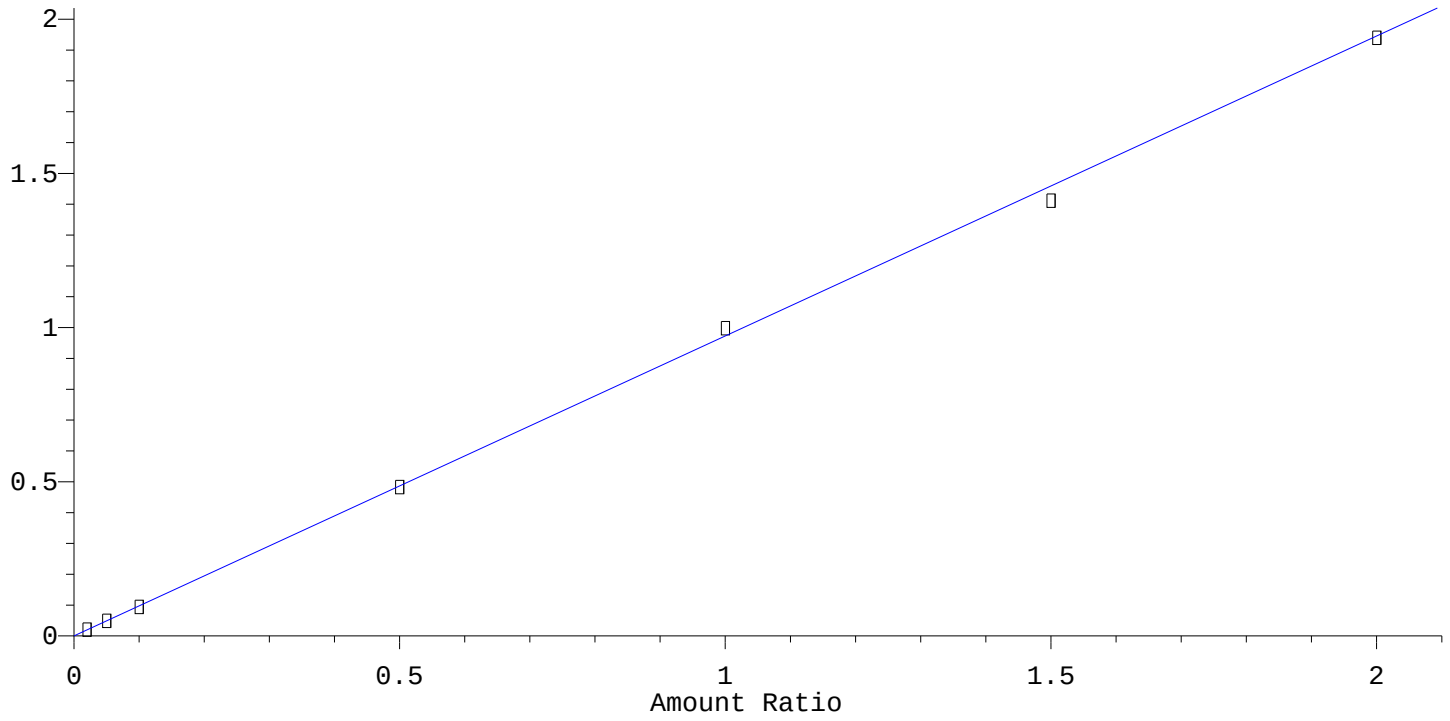


Resp Ratio = 1.15e+001 * Amt
RF Rel Std Dev = 10.3% Curve Fit: Avg RF



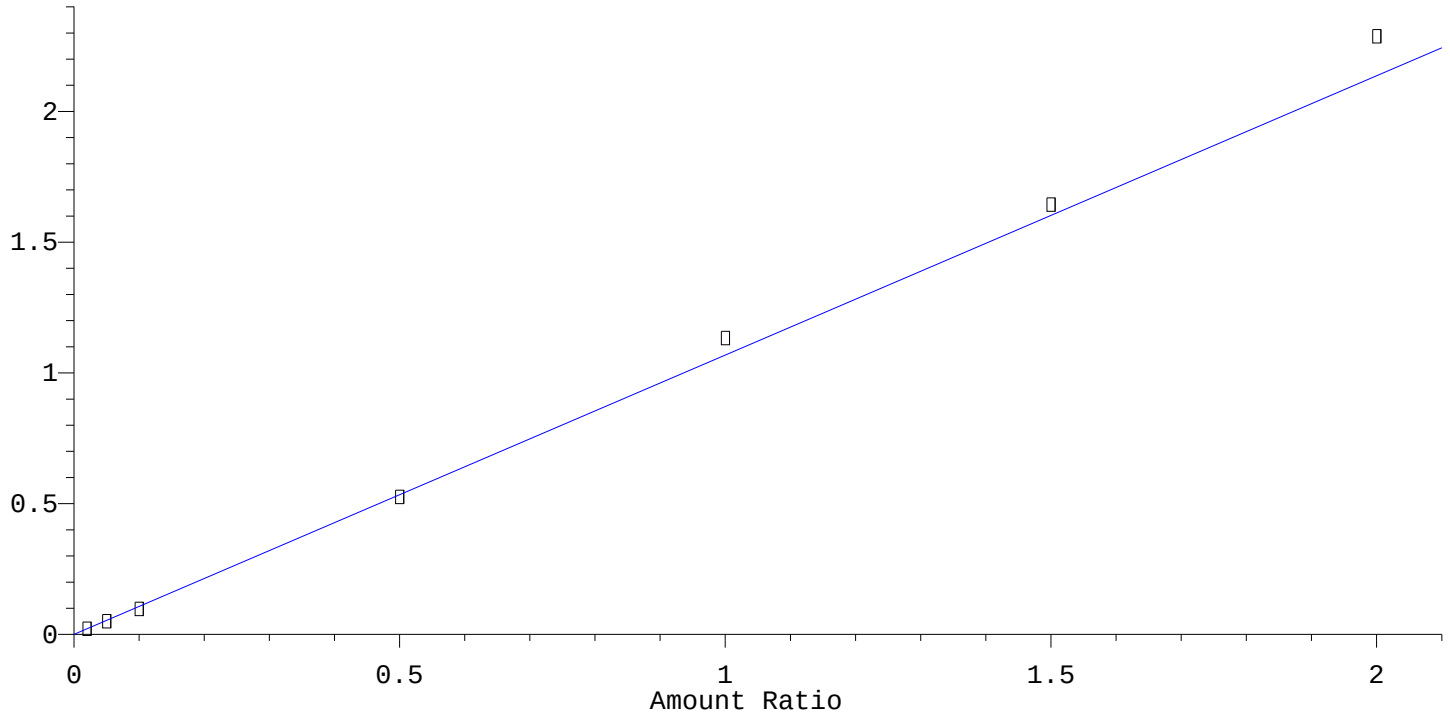
Resp Ratio = 1.29e+000 * Amt
RF Rel Std Dev = 7.8% Curve Fit: Avg RF

Acenaphthene

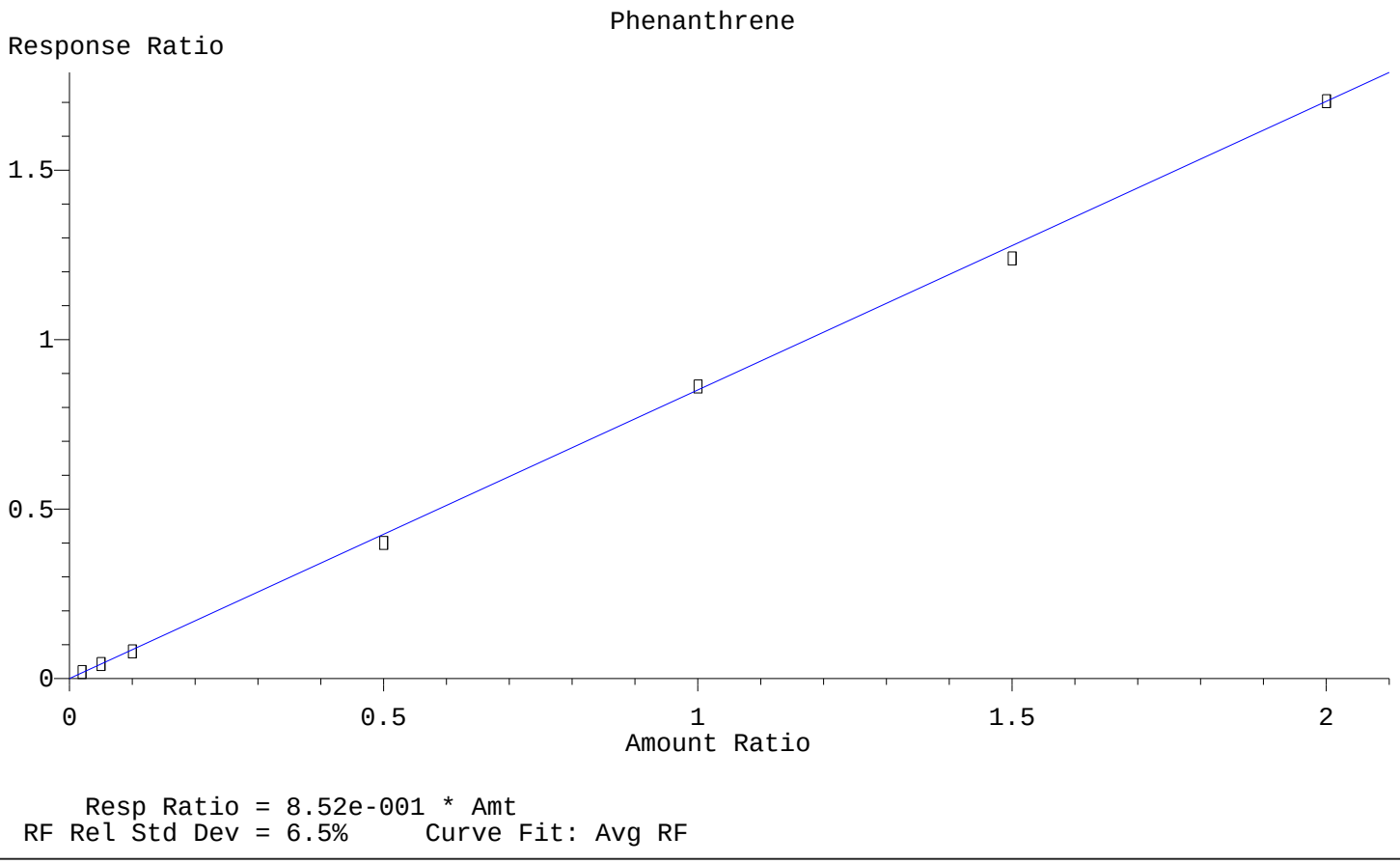


Resp Ratio = 9.73e-001 * Amt
RF Rel Std Dev = 2.9% Curve Fit: Avg RF

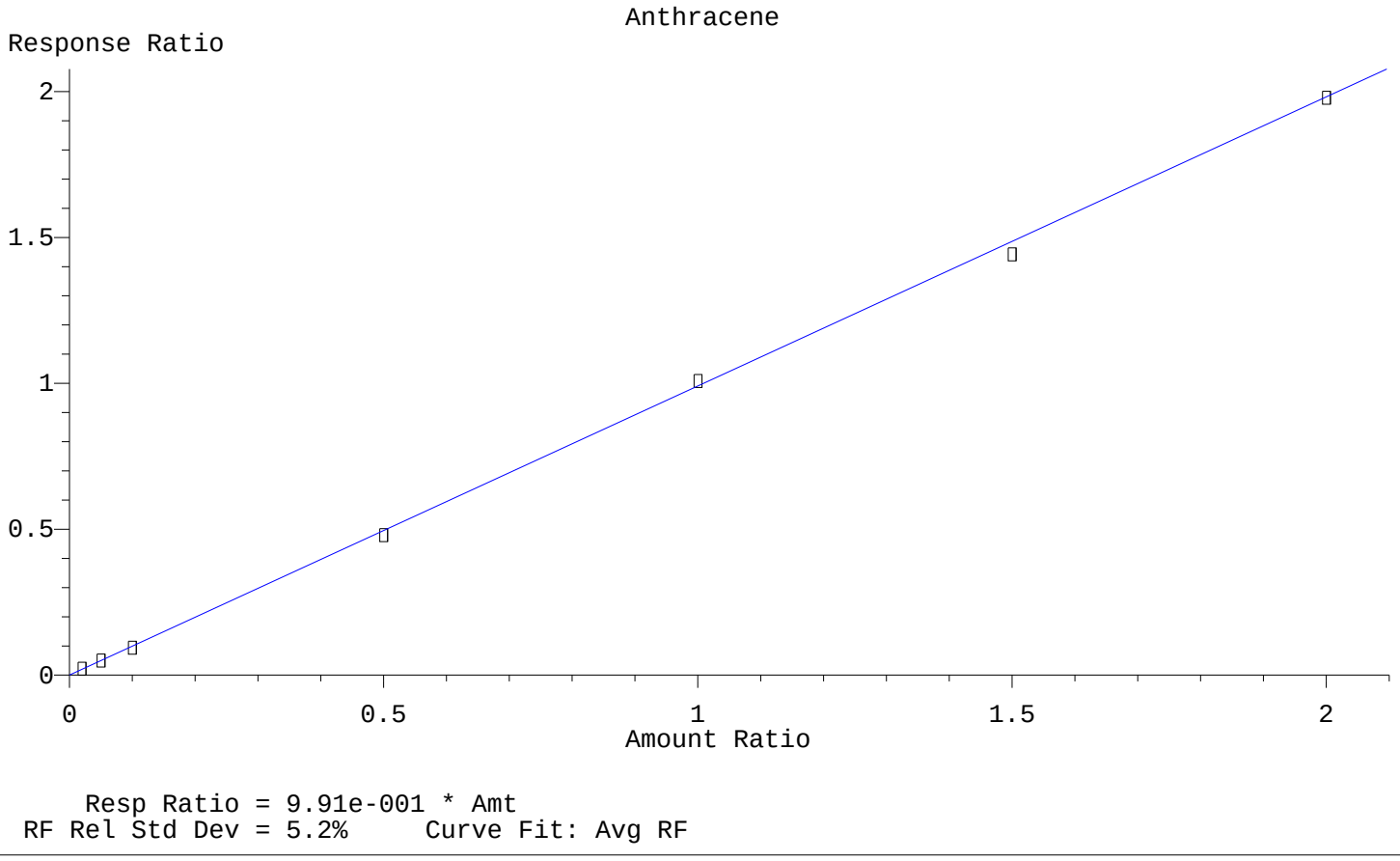
Fluorene



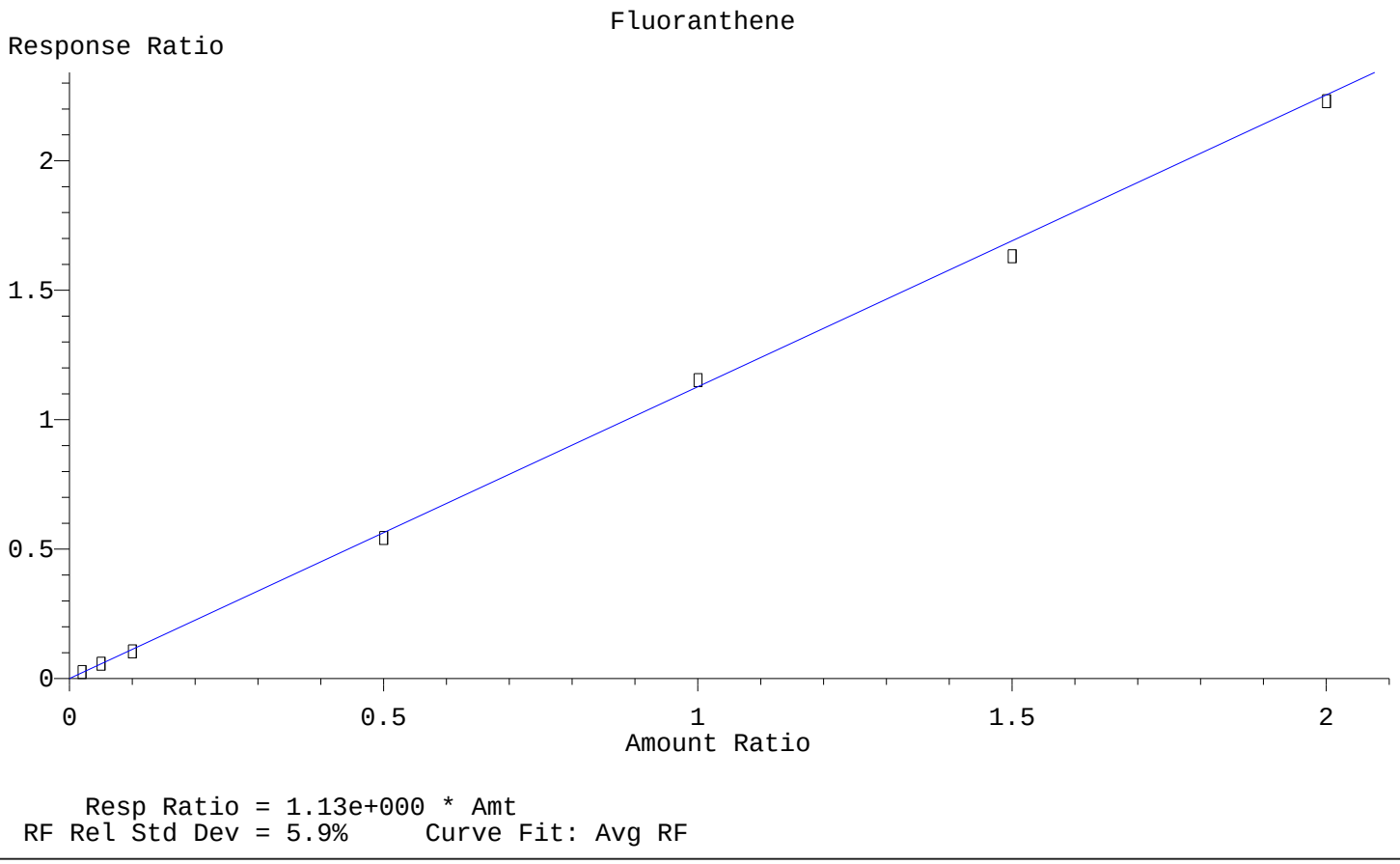
Resp Ratio = 1.07e+000 * Amt
RF Rel Std Dev = 5.9% Curve Fit: Avg RF



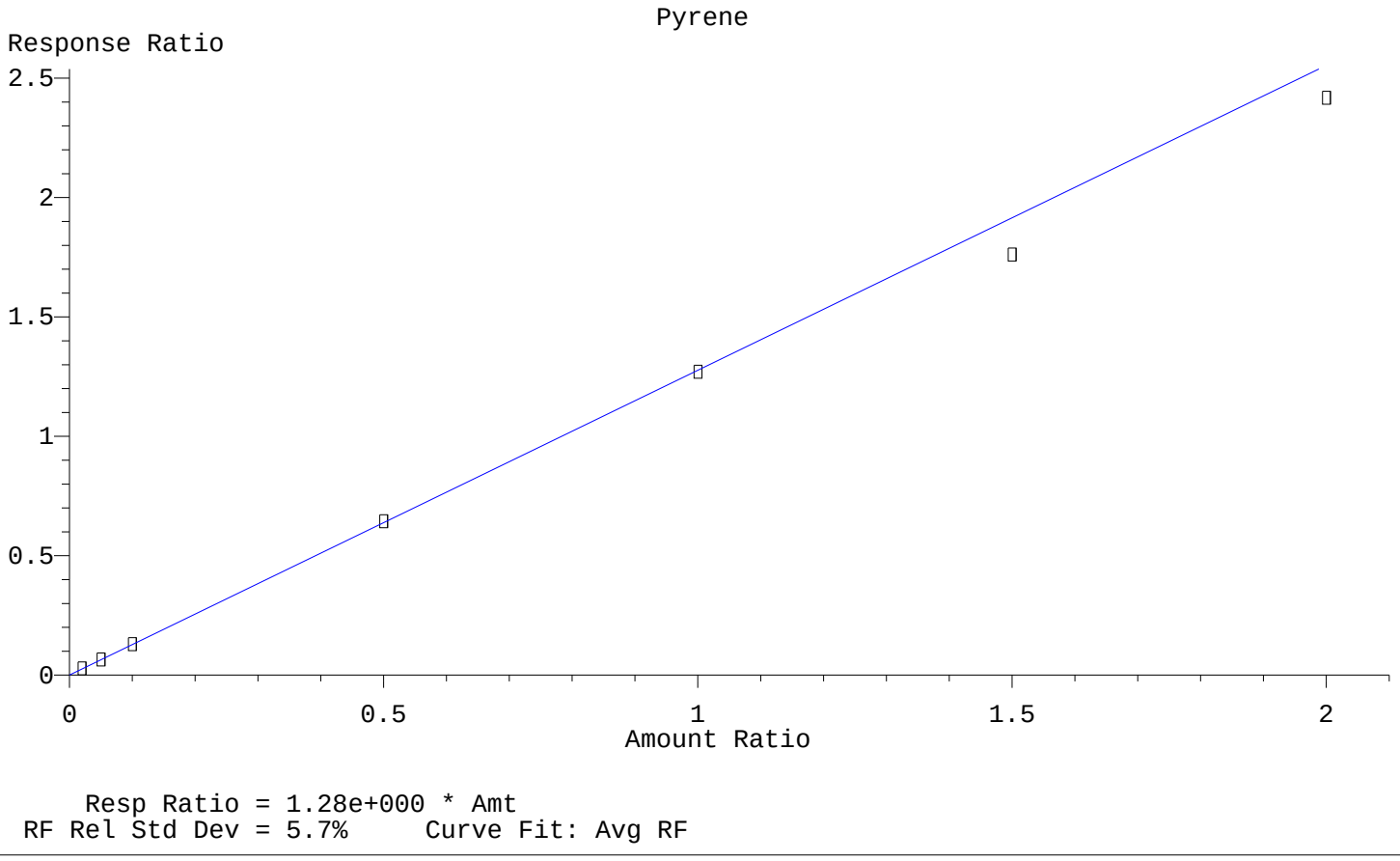
Resp Ratio = 8.52e-001 * Amt
RF Rel Std Dev = 6.5% Curve Fit: Avg RF



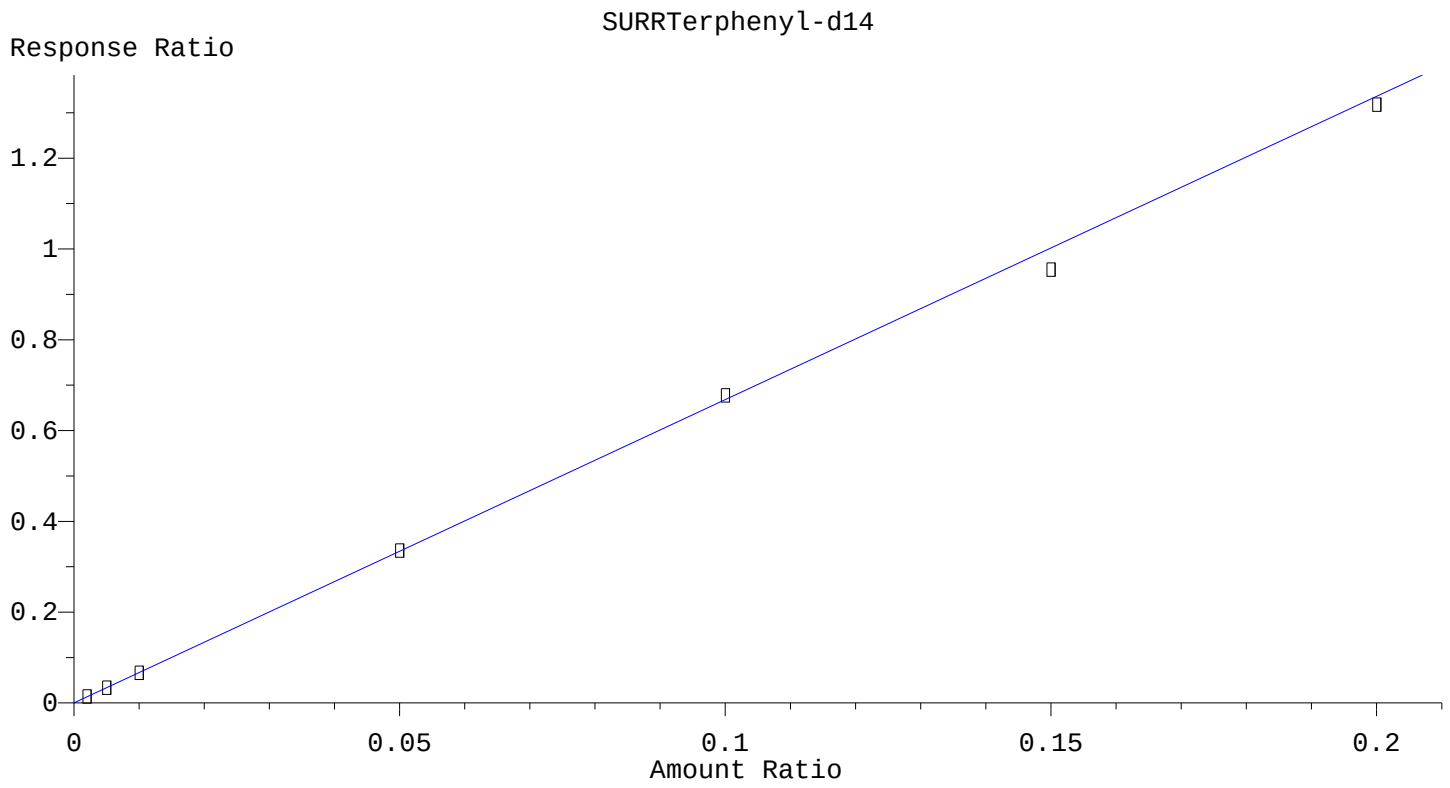
Resp Ratio = 9.91e-001 * Amt
RF Rel Std Dev = 5.2% Curve Fit: Avg RF



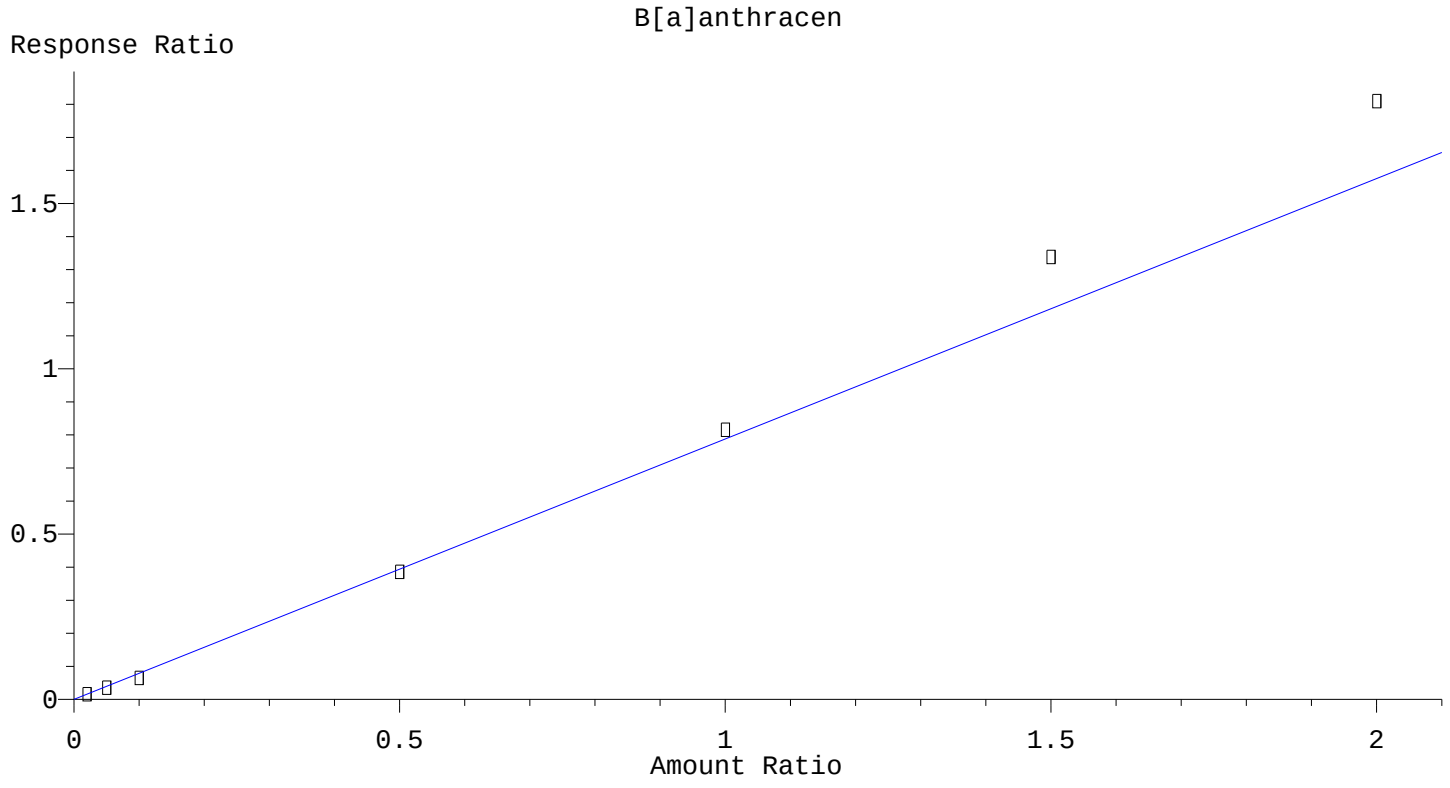
Resp Ratio = 1.13e+000 * Amt
RF Rel Std Dev = 5.9% Curve Fit: Avg RF



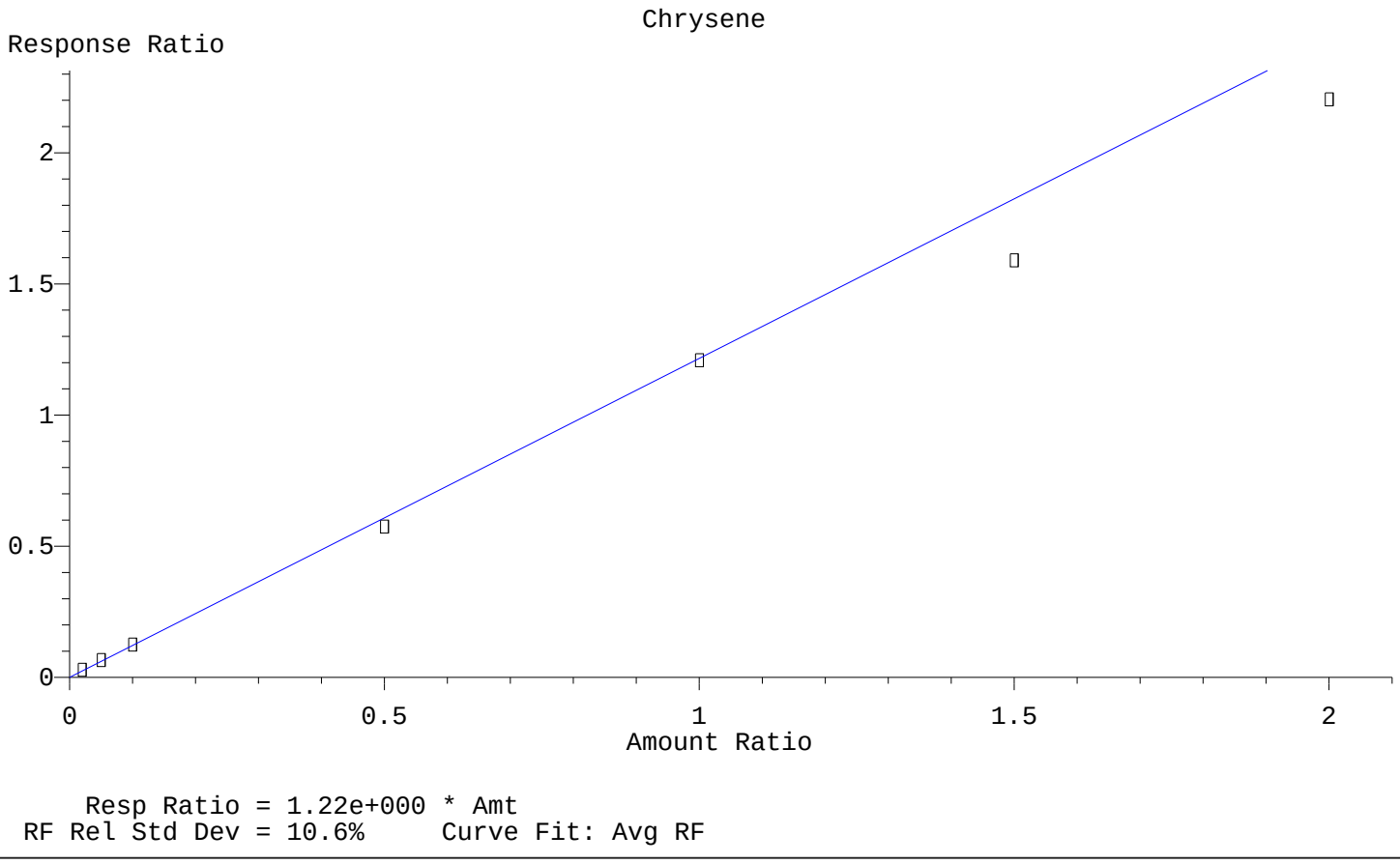
Resp Ratio = 1.28e+000 * Amt
RF Rel Std Dev = 5.7% Curve Fit: Avg RF



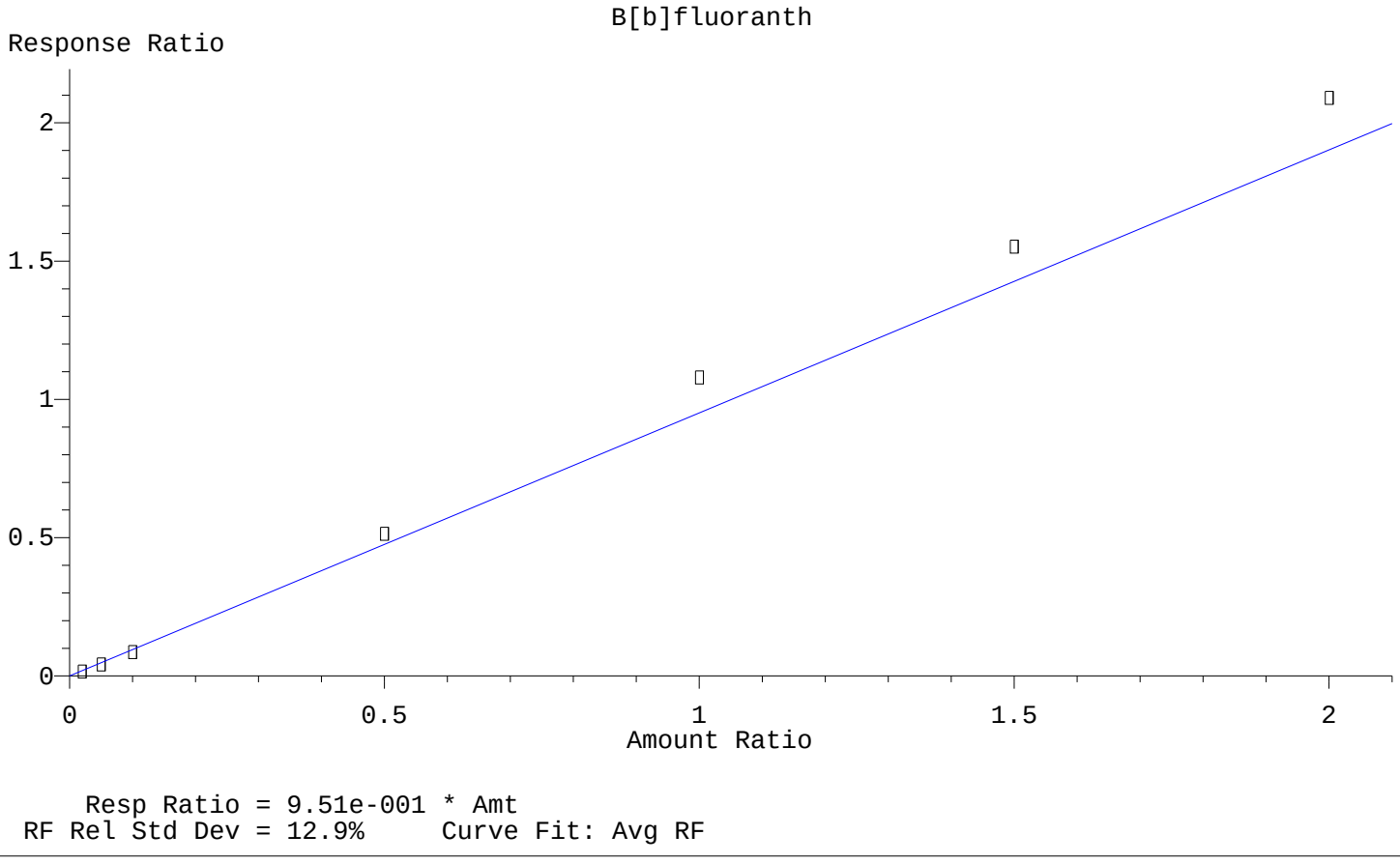
Resp Ratio = 6.68e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF



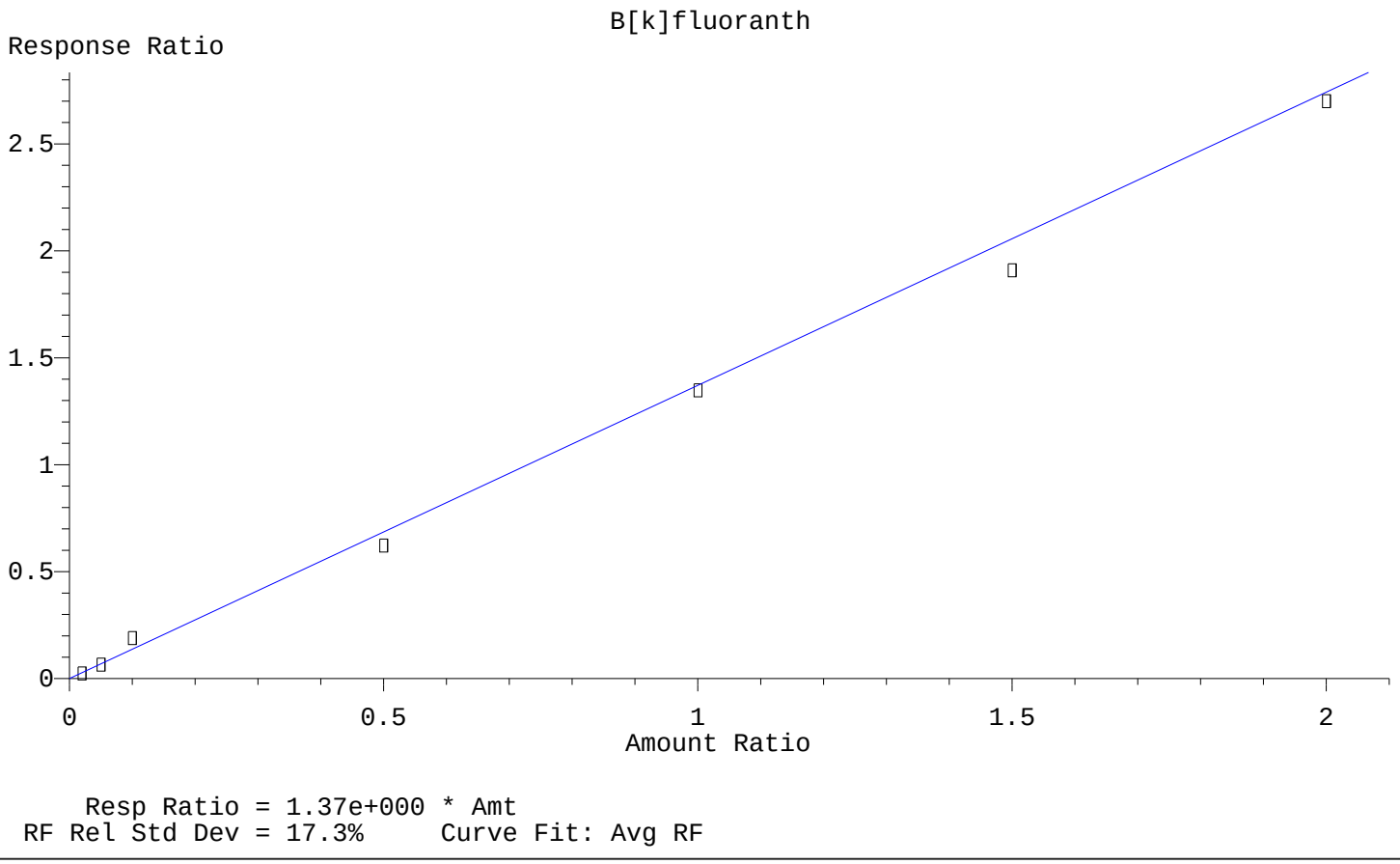
Resp Ratio = 7.88e-001 * Amt
RF Rel Std Dev = 11.8% Curve Fit: Avg RF



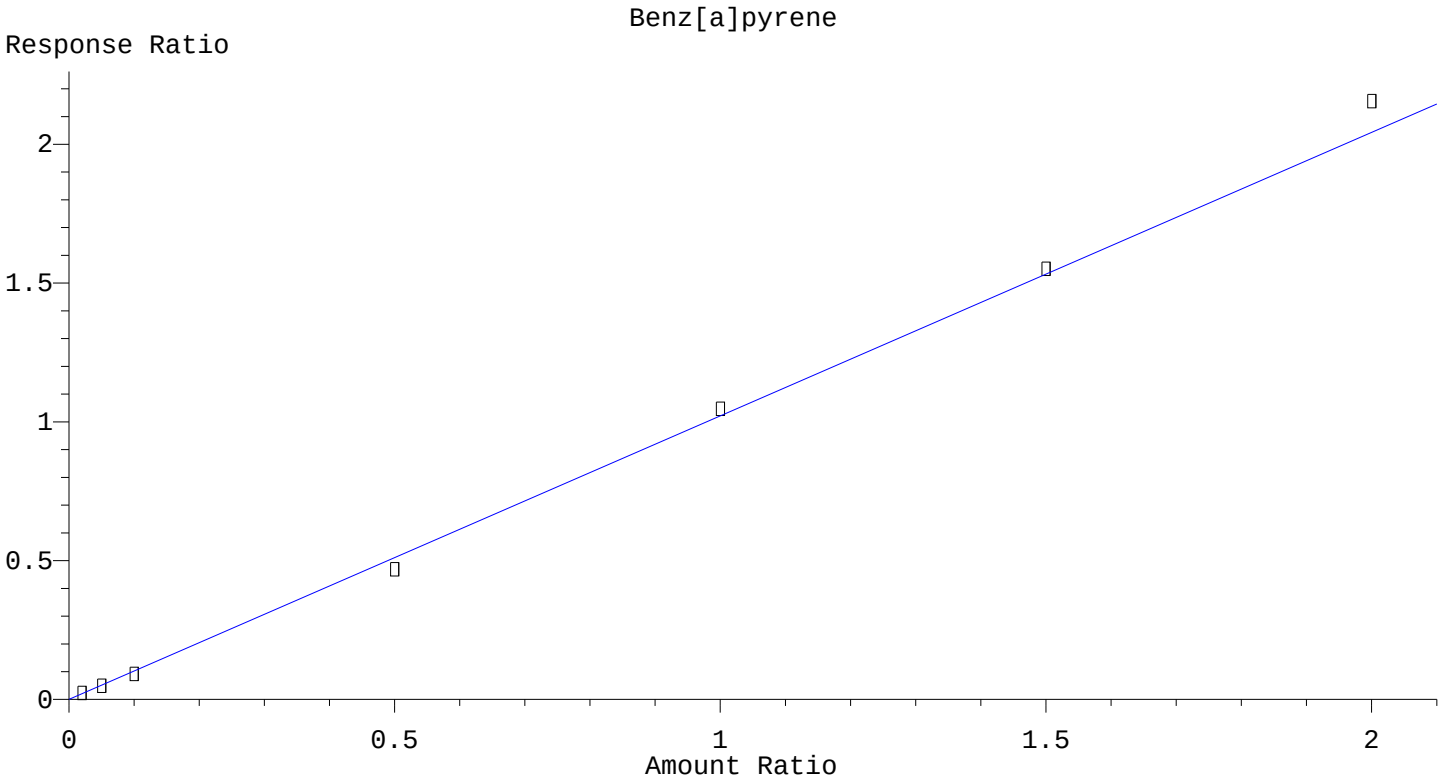
Resp Ratio = 1.22e+000 * Amt
RF Rel Std Dev = 10.6% Curve Fit: Avg RF



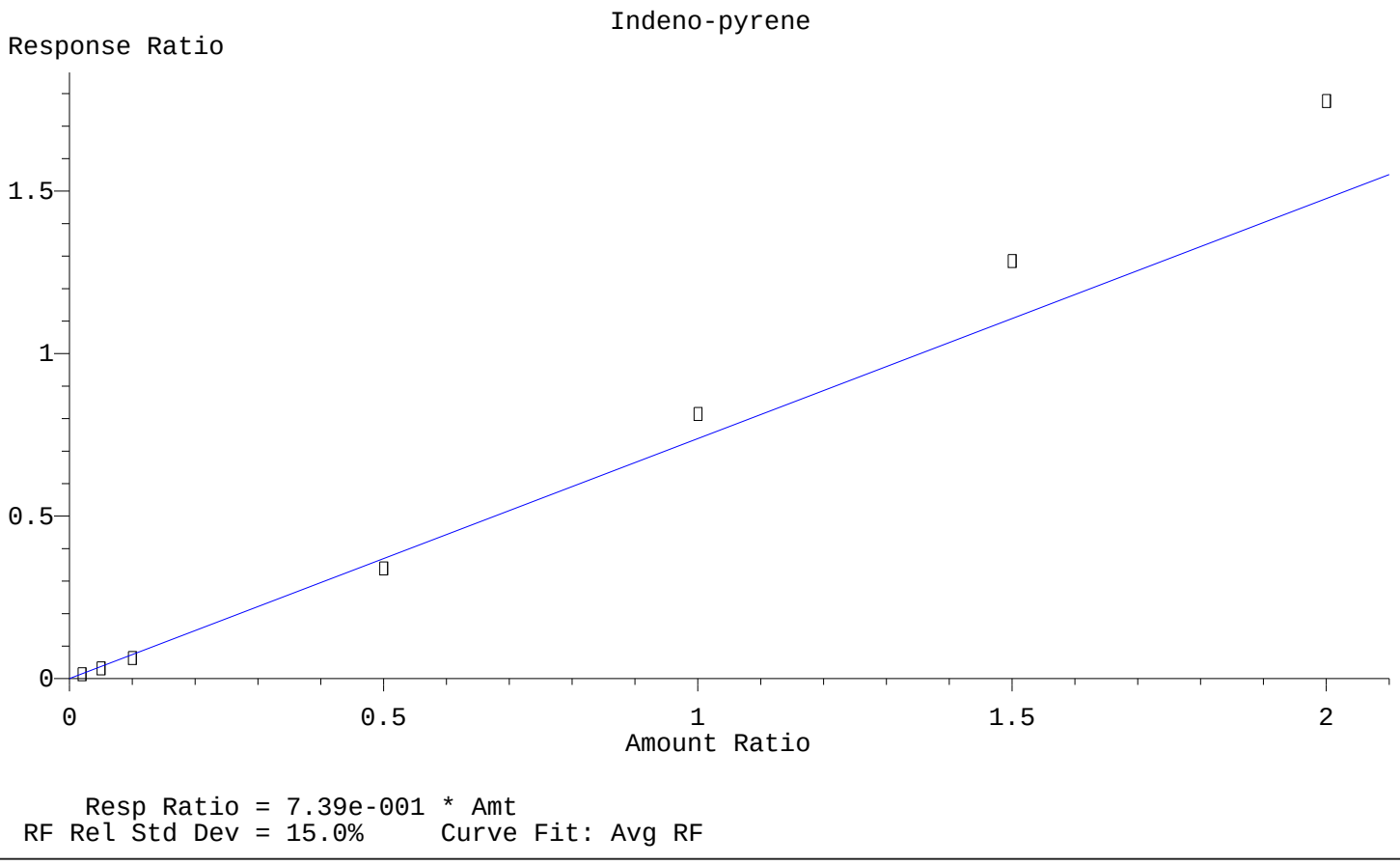
Resp Ratio = 9.51e-001 * Amt
RF Rel Std Dev = 12.9% Curve Fit: Avg RF



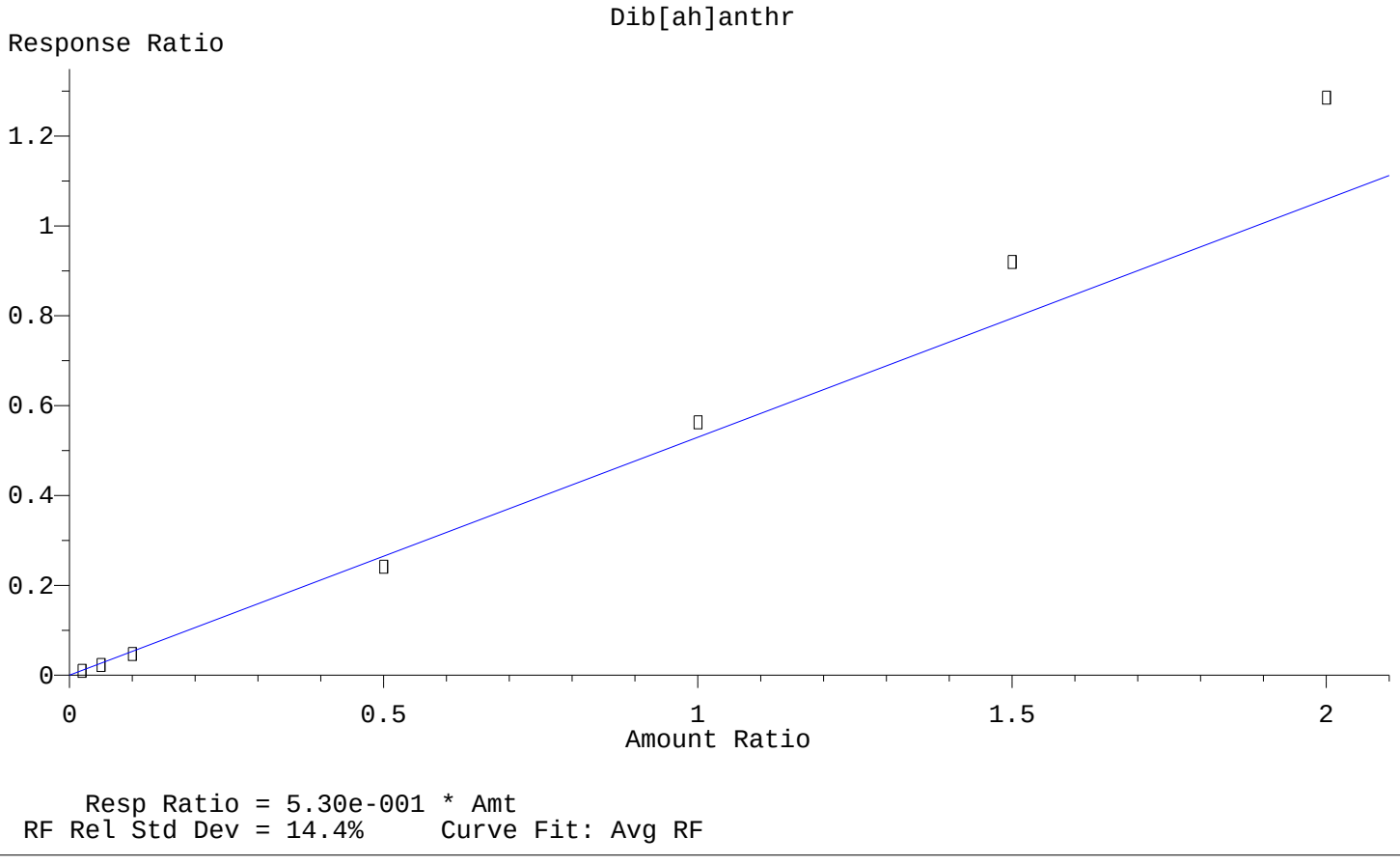
Resp Ratio = 1.37e+000 * Amt
RF Rel Std Dev = 17.3% Curve Fit: Avg RF



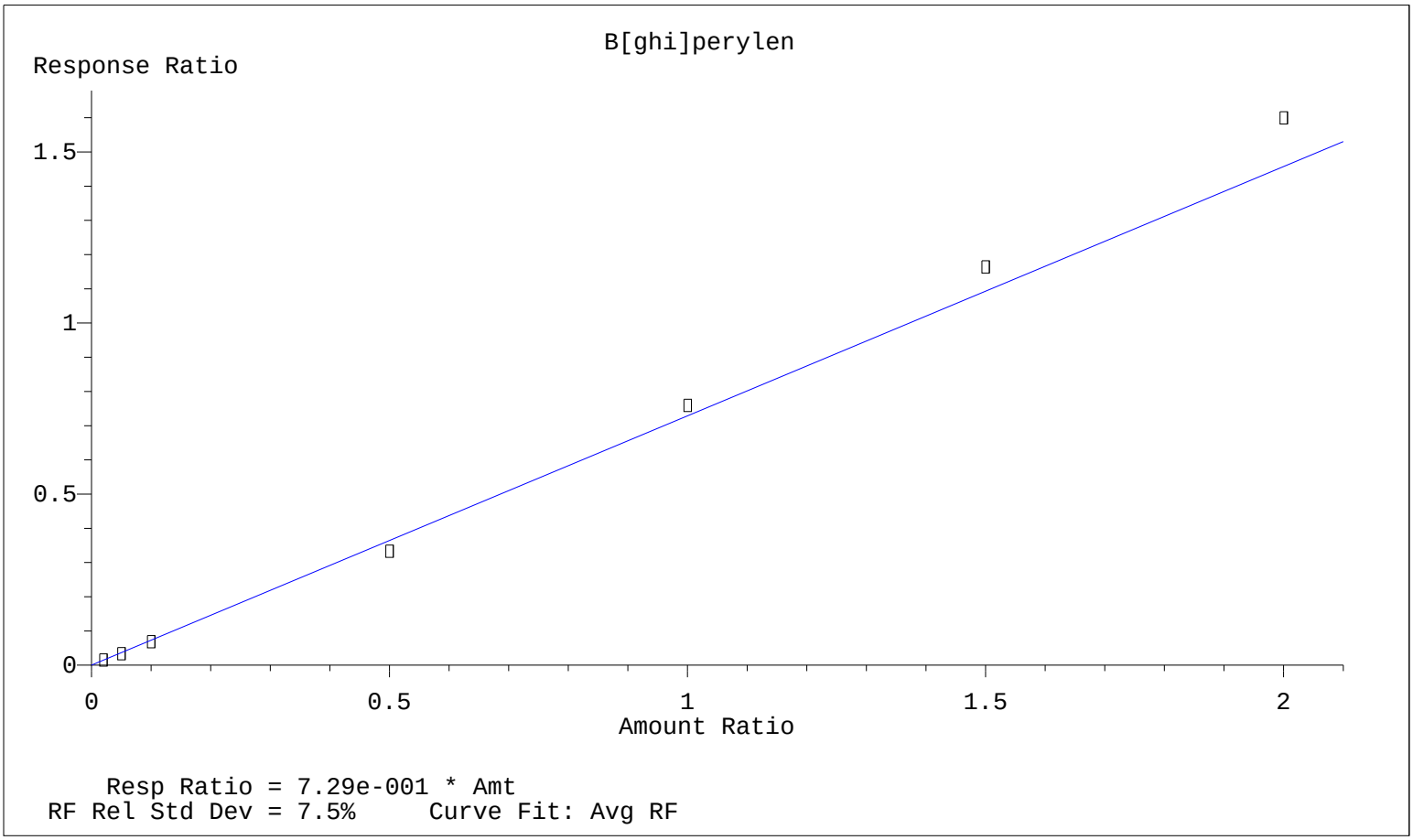
Resp Ratio = 1.02e+000 * Amt
RF Rel Std Dev = 8.1% Curve Fit: Avg RF



Resp Ratio = 7.39e-001 * Amt
RF Rel Std Dev = 15.0% Curve Fit: Avg RF



Resp Ratio = 5.30e-001 * Amt
RF Rel Std Dev = 14.4% Curve Fit: Avg RF


B[ghi]perylen
Response Ratio
1.5
1
0.5
0
0
0.5
1
1.5
2
Amount Ratio
Resp Ratio = 7.29e-001 * Amt
RF Rel Std Dev = 7.5%
Curve Fit: Avg RF

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2IB03.D Vial: 99
Acq On : 7 Aug 2013 10:16 Operator: RPN
Sample : InstrumentBlank Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 08 09:33:40 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Aug 08 09:30:50 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

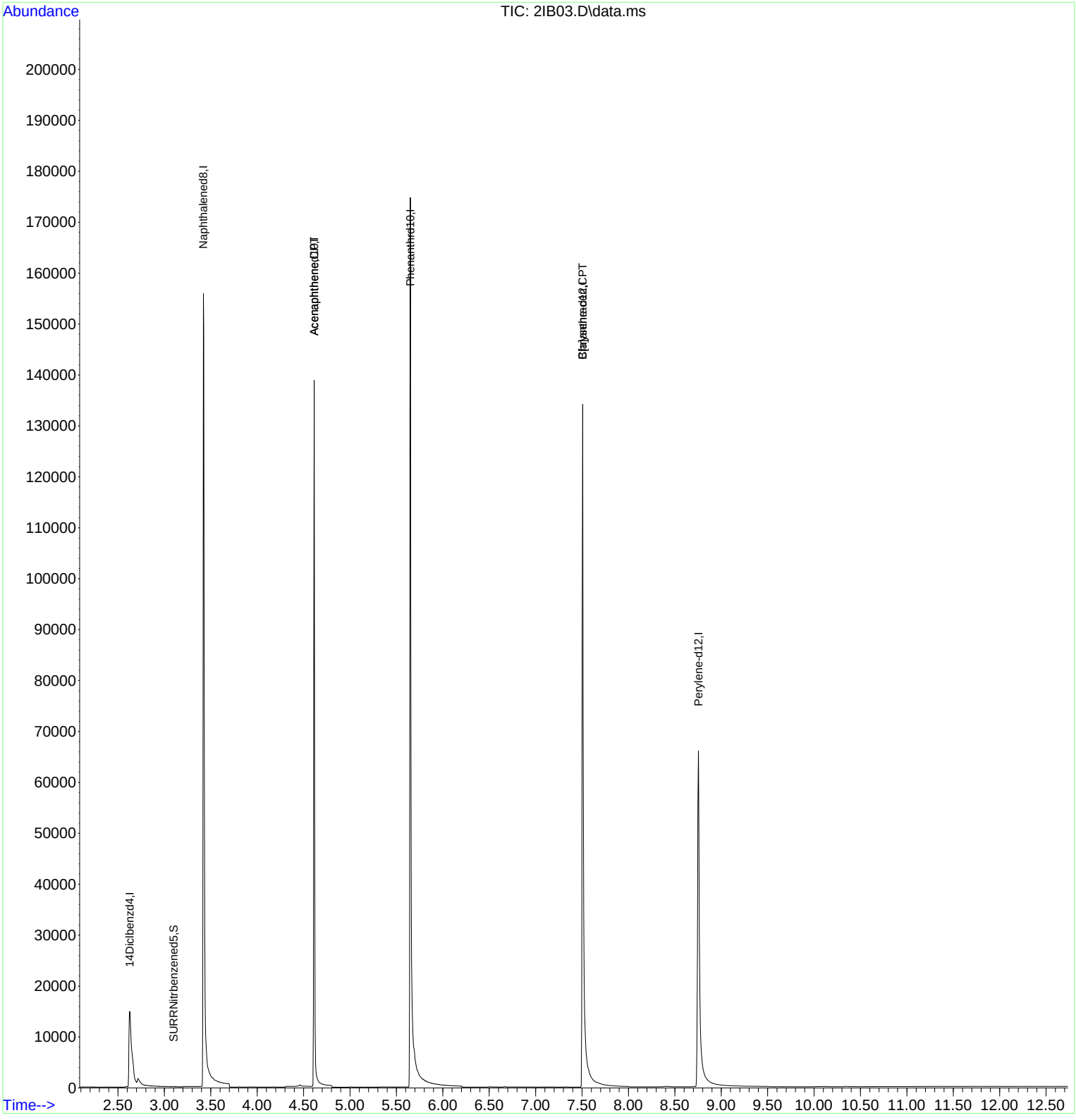
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.628	152	32706	1000.00	ng/mL	0.00
2) Naphthalened8	3.420	136	146533	1000.00	ng/mL	0.00
7) Acenaphthened10	4.615	164	89543	1000.00	ng/mL	0.00
12) Phenanthrd10	5.650	188	156553	1000.00	ng/mL	0.00
16) Chrysene-d12	7.507	240	140217	1000.00	ng/mL	0.00
21) Perylene-d12	8.754	264	100588	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	3.099	82	386	0.94	%REC	0.13
Spiked Amount 100.000			Recovery =	0.94%		
8) SURR2Flbiphenyl	0.000	172	0	0.00	%REC	
Spiked Amount 100.000			Recovery =	0.00%		
18) SURRTerphenyl-d14	0.000	244	0	0.00	ng/mL	
Spiked Amount 100.000			Recovery =	0.00%		
Target Compounds						Qvalue
10) Acenaphthene	4.615	154	353	4.0529	ng/mL#	1
19) B[a]anthracen	7.507	228	382	3.4581	ng/mL	62

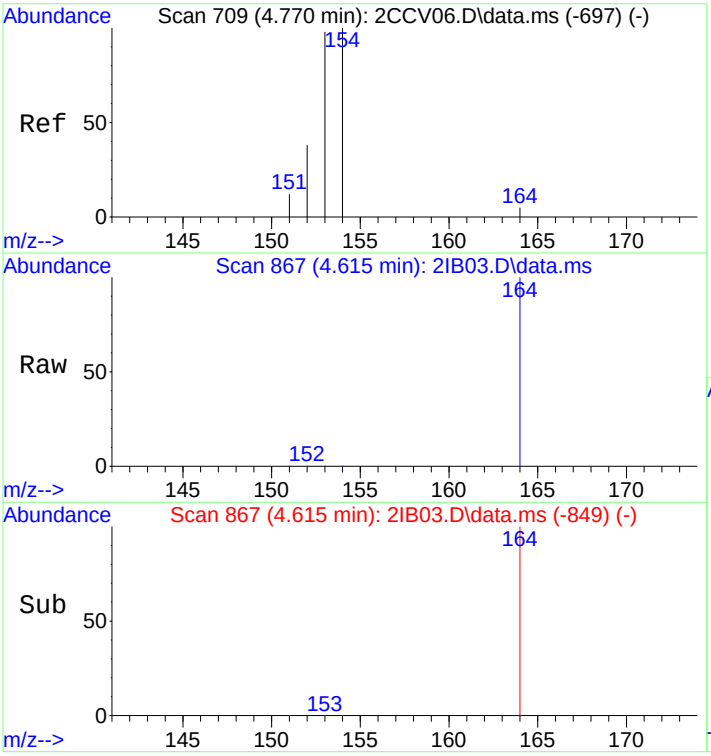
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2IB03.D Vial: 99
Acq On : 7 Aug 2013 10:16 Operator: RPN
Sample : InstrumentBlank Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 08 09:33:40 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Aug 08 09:30:50 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

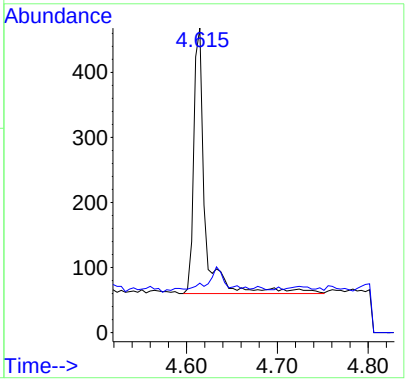


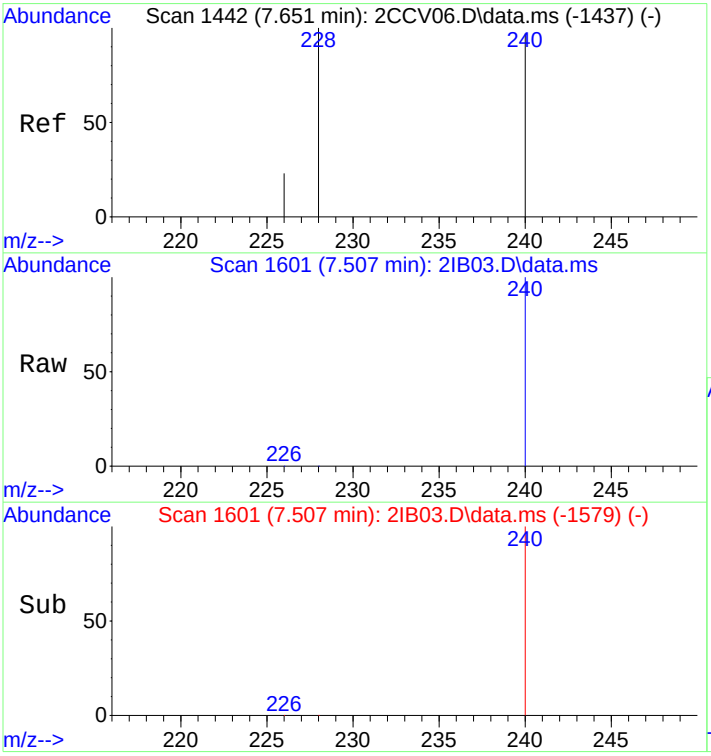


#10
Acenaphthene
Concen: 4.05 ng/mL
RT: 4.615 min Scan# 867
Delta R.T. -0.018 min
Lab File: 2IB03.D
Acq: 7 Aug 13 10:16 am

Tgt Ion:154 Resp: 353

Ion	Ratio	Lower	Upper
154	100		
153	2.7	84.6	144.6#

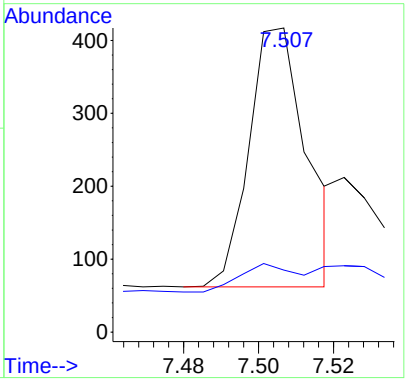




#19
B[a]anthracen
Concen: 3.46 ng/mL
RT: 7.507 min Scan# 1601
Delta R.T. 0.016 min
Lab File: 2IB03.D
Acq: 7 Aug 13 10:16 am

Tgt Ion:228 Resp: 382

Ion	Ratio	Lower	Upper
228	100		
226	8.5	0.0	58.4



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL1.D Vial: 8
Acq On : 7 Aug 2013 12:35 Operator: RPN
Sample : ICAL 20 ng/mL SVMS5714 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:08:22 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:08:15 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

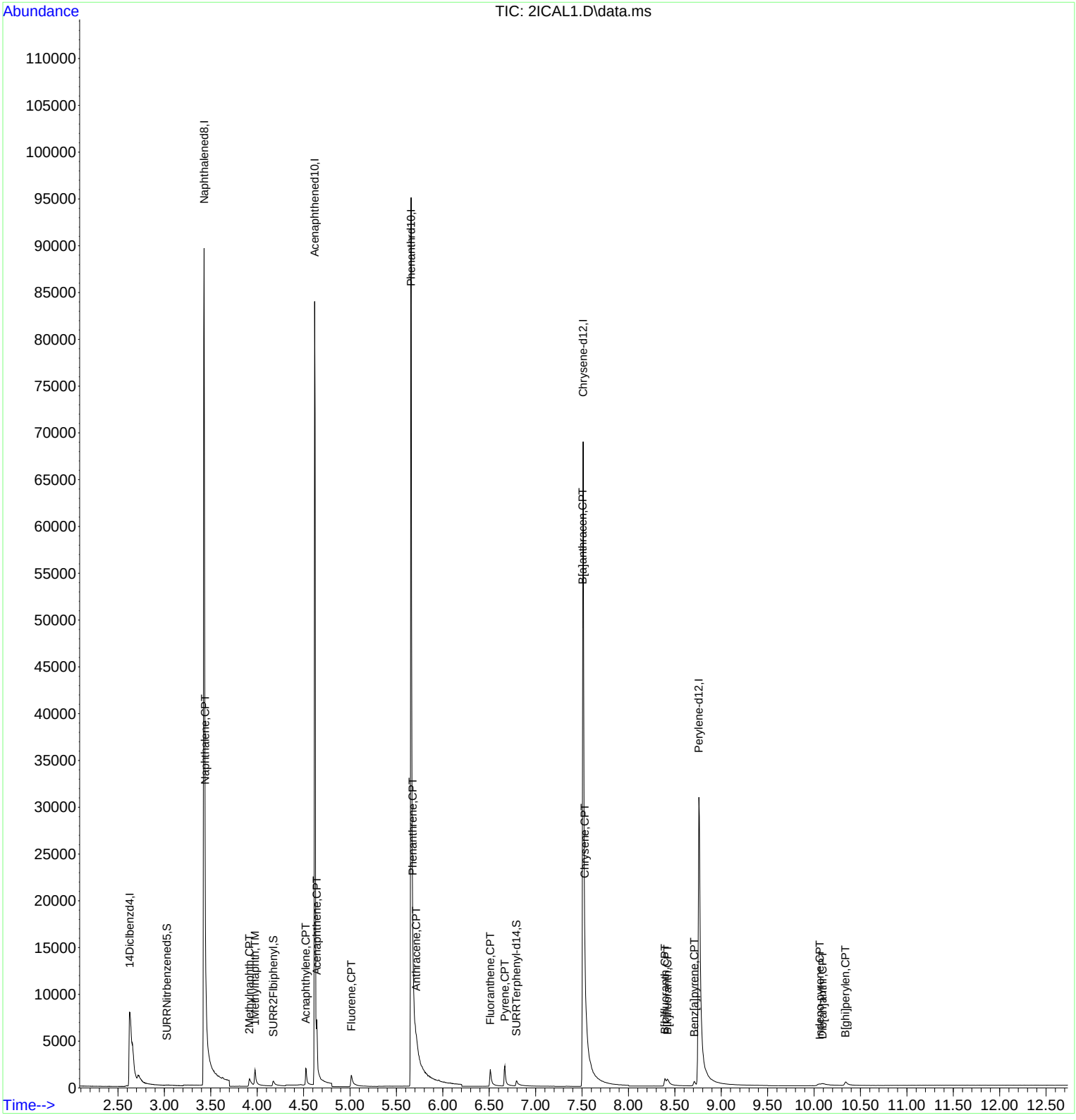
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.626	152	24709	1000.00	ng/mL	0.00
2) Naphthalened8	3.428	136	95256	1000.00	ng/mL	0.00
7) Acenaphthened10	4.619	164	60716	1000.00	ng/mL	0.00
12) Phenanthrd10	5.658	188	99773	1000.00	ng/mL	0.00
16) Chrysene-d12	7.512	240	87452	1000.00	ng/mL	0.00
21) Perylene-d12	8.759	264	56560	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	3.027	82	443	1.62	%REC	0.04
Spiked Amount 100.000			Recovery = 1.62%			
8) SURR2Flbiphenyl	4.175	172	1701	2.54	%REC	0.01
Spiked Amount 100.000			Recovery = 2.54%			
18) SURRTerphenyl-d14	6.792	244	1222	2.11	ng/mL	0.00
Spiked Amount 100.000			Recovery = 2.11%			
Target Compounds						Qvalue
4) Naphthalene	3.439	128	1765	21.2098	ng/mL	98
5) 2Methylnaphth	3.918	142	779	15.2500	ng/mL	100
6) 1Methylnaphth	3.977	142	1454	23.2752	ng/mL	91
9) Acnaphthylene	4.523	152	1488	18.7960	ng/mL	94
10) Acenaphthene	4.642	154	1234	21.0514	ng/mL	100
11) Fluorene	5.016	166	1305	20.1402	ng/mL	83
13) Phenanthrene	5.675	178	1923	23.1383	ng/mL	98
14) Anthracene	5.715	178	2181	22.4408	ng/mL	99
15) Fluoranthene	6.512	202	2501	22.6550	ng/mL	98
17) Pyrene	6.668	202	2447	22.2622	ng/mL	100
19) B[a]anthracen	7.507	228	1361	19.7139	ng/mL	86
20) Chrysene	7.528	228	2502	24.2311	ng/mL	98
22) B[b]fluoranth	8.393	252	881	15.8958	ng/mL	98
23) B[k]fluoranth	8.420	252	1345	16.9609	ng/mL	100
24) Benz[a]pyrene	8.711	252	1307	23.1322	ng/mL	98
25) Indeno-pyrene	10.063	276	760	17.9227	ng/mL	99
26) Dib[ah]anthr	10.093	278	547	18.0023	ng/mL	82
27) B[ghi]perylen	10.339	276	844	20.5610	ng/mL	98

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL1.D Vial: 8
Acq On : 7 Aug 2013 12:35 Operator: RPN
Sample : ICAL 20 ng/mL SVMS5714 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:08:22 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:08:15 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL2.D Vial: 7
Acq On : 7 Aug 2013 12:15 Operator: RPN
Sample : ICAL 50 ng/mL SVMS5715 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:07:58 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:07:13 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

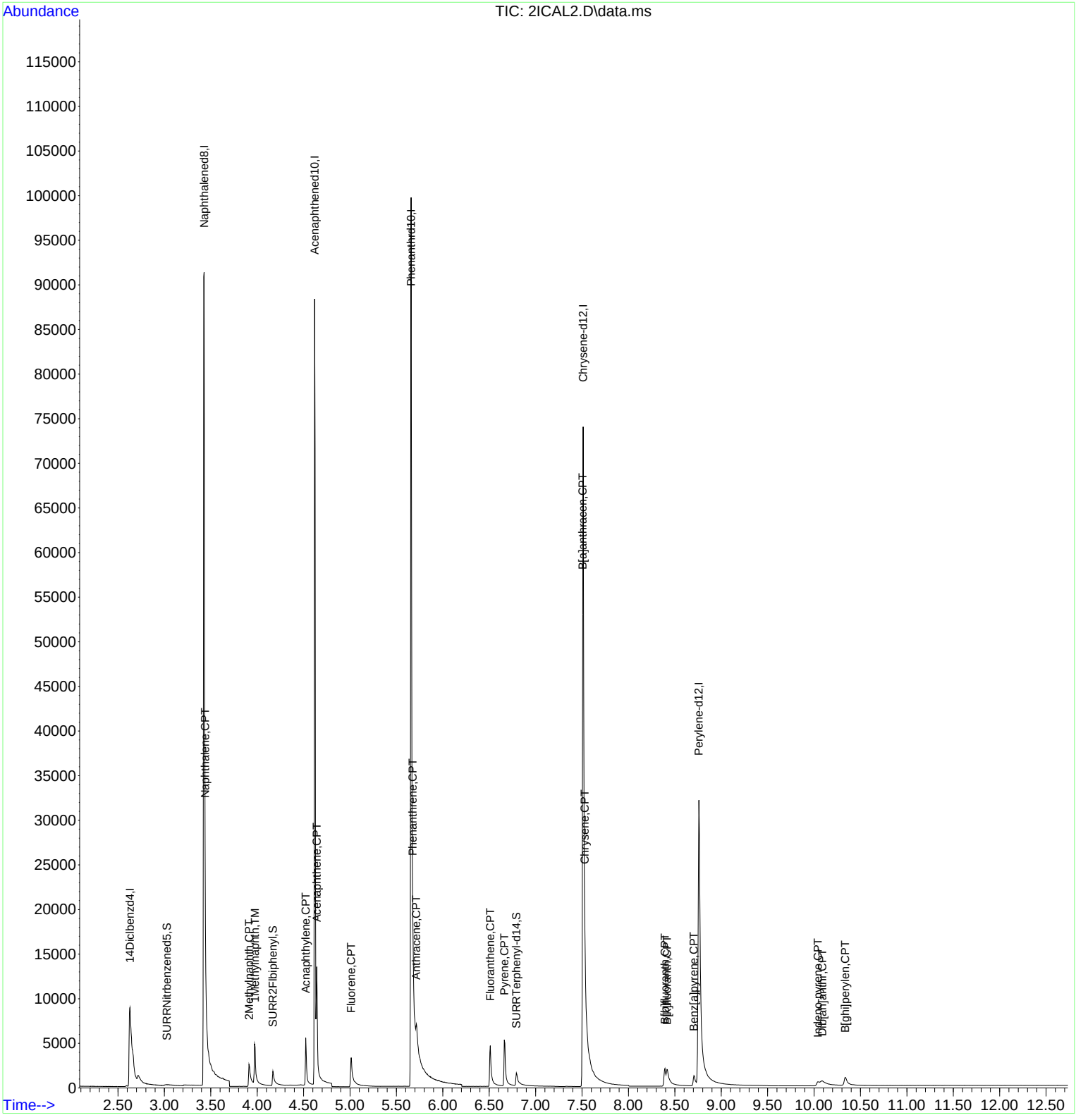
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.630	152	20962	1000.00	ng/mL	0.00
2) Naphthalened8	3.428	136	97958	1000.00	ng/mL	0.00
7) Acenaphthened10	4.619	164	61537	1000.00	ng/mL	0.00
12) Phenanthrd10	5.658	188	101391	1000.00	ng/mL	0.00
16) Chrysene-d12	7.512	240	88232	1000.00	ng/mL	0.00
21) Perylene-d12	8.759	264	57732	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	3.027	82	1294	4.53	%REC	0.04
Spiked Amount 100.000			Recovery = 4.53%			
8) SURR2Flbiphenyl	4.170	172	3511	5.21	%REC	0.00
Spiked Amount 100.000			Recovery = 5.21%			
18) SURRTerphenyl-d14	6.792	244	2950	5.06	ng/mL	0.00
Spiked Amount 100.000			Recovery = 5.06%			
Target Compounds						Qvalue
4) Naphthalene	3.439	128	4353	51.0436	ng/mL	99
5) 2Methylnaphth	3.912	142	2175	40.0278	ng/mL	97
6) 1Methylnaphth	3.977	142	3390	53.3603	ng/mL	99
9) Acnaphthylene	4.523	152	3643	44.5836	ng/mL	97
10) Acenaphthene	4.642	154	3016	50.9208	ng/mL	97
11) Fluorene	5.012	166	3094	46.5752	ng/mL	81
13) Phenanthrene	5.675	178	4336	51.6167	ng/mL	97
14) Anthracene	5.715	178	5032	51.1432	ng/mL	99
15) Fluoranthene	6.512	202	5817	52.2387	ng/mL	99
17) Pyrene	6.663	202	5751	52.2470	ng/mL	92
19) B[a]anthracen	7.507	228	3109	43.6977	ng/mL	89
20) Chrysene	7.528	228	5813	57.1245	ng/mL	97
22) B[b]fluoranth	8.393	252	2397	41.1160	ng/mL	98
23) B[k]fluoranth	8.415	252	3765	45.8745	ng/mL	97
24) Benz[a]pyrene	8.705	252	2832	48.9300	ng/mL	99
25) Indeno-pyrene	10.041	276	1810	40.4925	ng/mL	100
26) Dib[ah]anthr	10.089	278	1306	40.8206	ng/mL	96
27) B[ghi]perylen	10.335	276	1938	45.5712	ng/mL	96

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL2.D Vial: 7
Acq On : 7 Aug 2013 12:15 Operator: RPN
Sample : ICAL 50 ng/mL SVMS5715 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:07:58 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:07:13 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL3.D Vial: 6
Acq On : 7 Aug 2013 11:55 Operator: RPN
Sample : ICAL 100 ng/mL SVMS5716 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:06:38 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:06:29 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

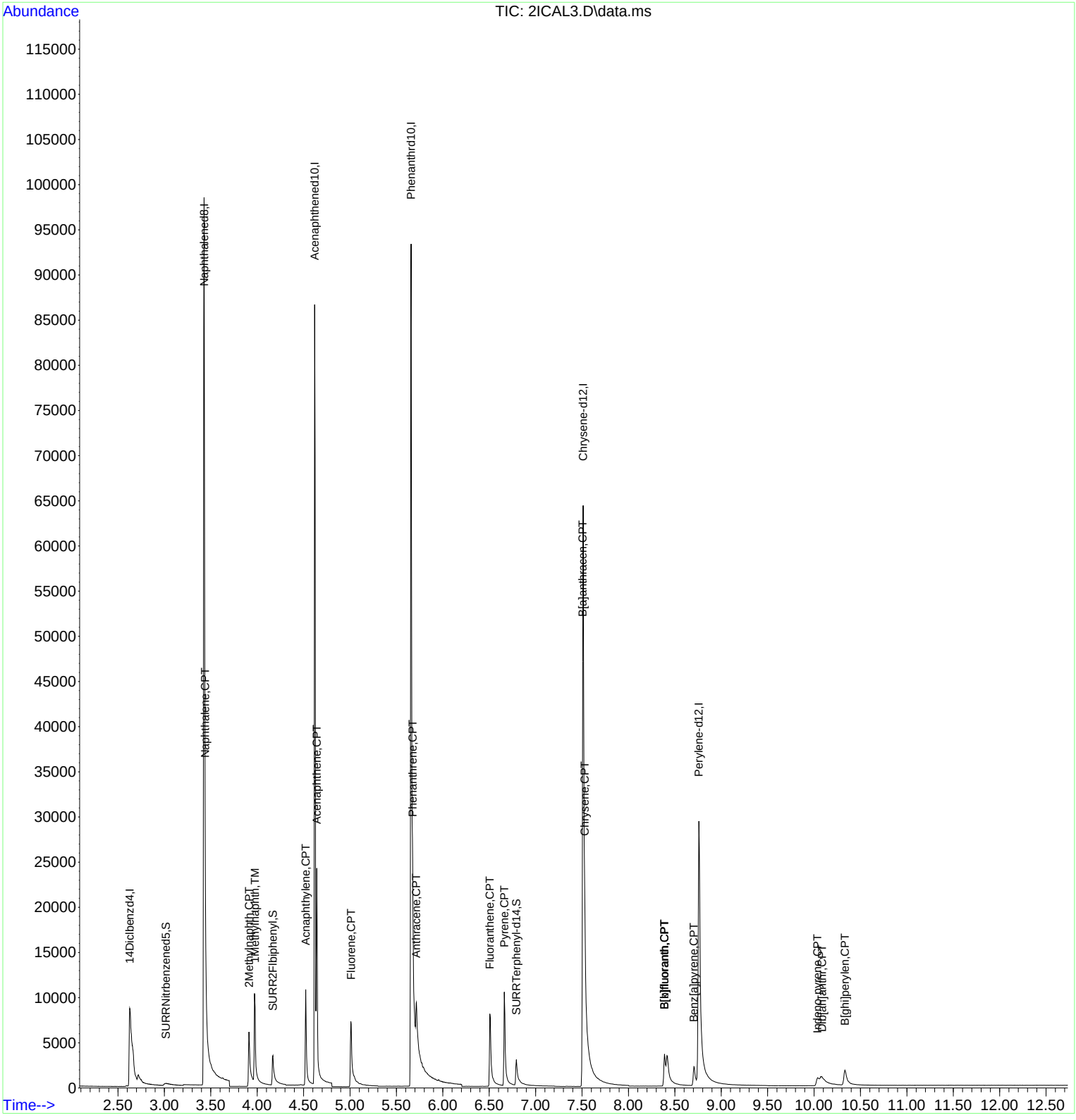
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.627	152	20853	1000.00	ng/mL	0.00
2) Naphthalened8	3.428	136	96516	1000.00	ng/mL	0.00
7) Acenaphthened10	4.619	164	60403	1000.00	ng/mL	0.00
12) Phenanthrd10	5.658	188	96995	1000.00	ng/mL	0.00
16) Chrysene-d12	7.512	240	77682	1000.00	ng/mL	0.00
21) Perylene-d12	8.759	264	50697	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	3.016	82	2322	7.91	%REC	0.03
Spiked Amount 100.000			Recovery = 7.91%			
8) SURR2Flbiphenyl	4.170	172	6434	9.66	%REC	0.00
Spiked Amount 100.000			Recovery = 9.66%			
18) SURRTerphenyl-d14	6.792	244	5146	10.02	ng/mL	0.00
Spiked Amount 100.000			Recovery = 10.02%			
Target Compounds						Qvalue
4) Naphthalene	3.439	128	8285	98.2585	ng/mL	99
5) 2Methylnaphth	3.912	142	4428	79.2813	ng/mL	98
6) 1Methylnaphth	3.976	142	6344	101.6927	ng/mL	98
9) Acnaphthylene	4.523	152	7167	87.0418	ng/mL	98
10) Acenaphthene	4.642	154	5670	96.9276	ng/mL	96
11) Fluorene	5.012	166	5883	88.0689	ng/mL	91
13) Phenanthrene	5.675	178	7784	96.1081	ng/mL	97
14) Anthracene	5.715	178	9067	95.4540	ng/mL	99
15) Fluoranthene	6.506	202	10191	94.6413	ng/mL	94
17) Pyrene	6.663	202	10065	104.8687	ng/mL	95
19) B[a]anthracen	7.507	228	5034	76.6025	ng/mL	90
20) Chrysene	7.528	228	9686	110.3493	ng/mL	96
22) B[b]fluoranth	8.388	252	4371	82.3699	ng/mL	100
23) B[k]fluoranth	8.388	252	9605	145.3627	ng/mL	99
24) Benz[a]pyrene	8.705	252	4647	89.5122	ng/mL	100
25) Indeno-pyrene	10.037	276	3216	78.3895	ng/mL	100
26) Dib[ah]anthr	10.085	278	2381	81.6354	ng/mL	94
27) B[ghi]perylen	10.332	276	3463	91.0755	ng/mL	96

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL3.D Vial: 6
Acq On : 7 Aug 2013 11:55 Operator: RPN
Sample : ICAL 100 ng/mL SVMS5716 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:06:38 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:06:29 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL4.D Vial: 5
Acq On : 7 Aug 2013 11:36 Operator: RPN
Sample : ICAL 500 ng/mL SVMS5717 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:03:20 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:03:00 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

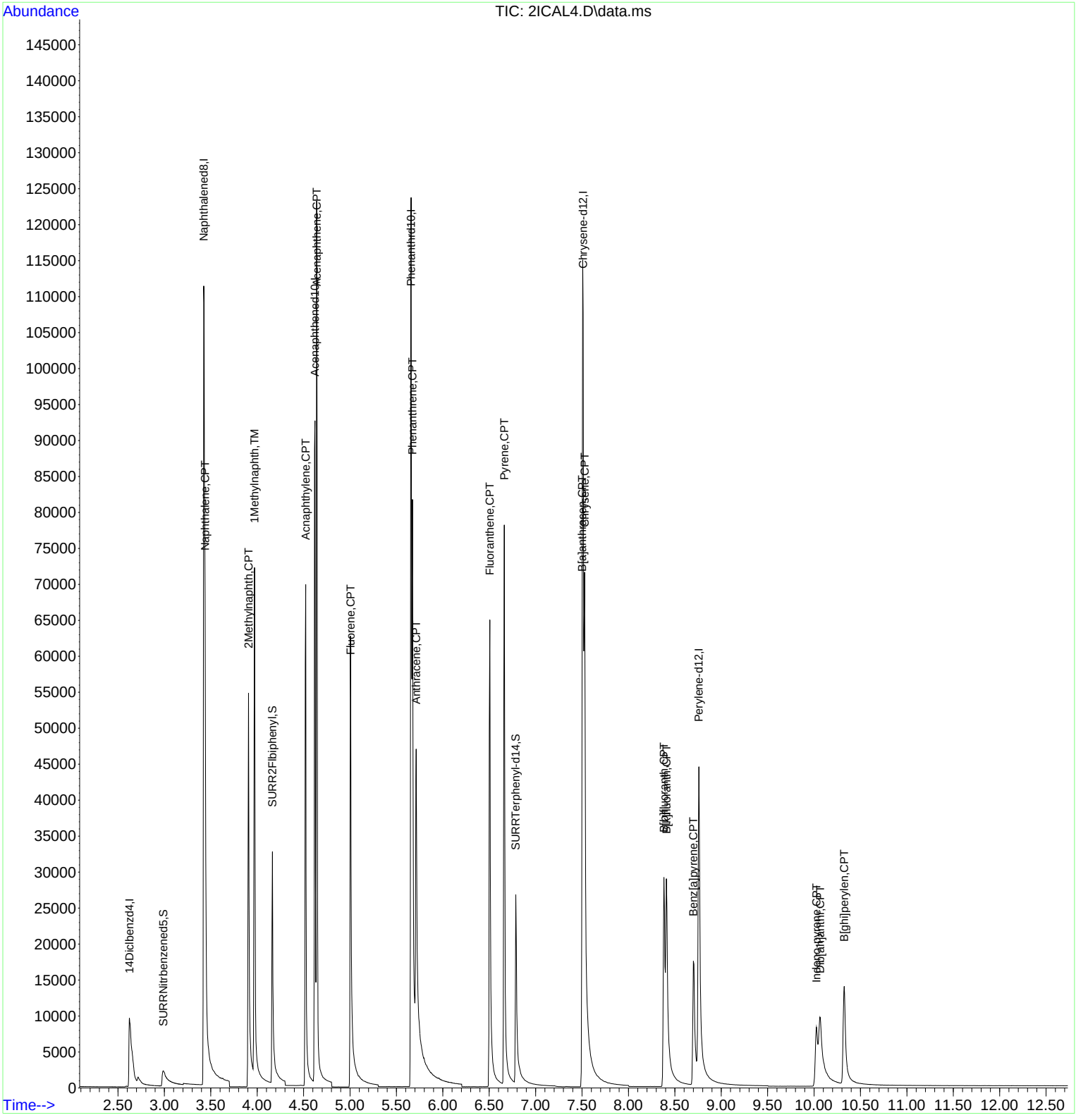
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.623	152	22623	1000.00	ng/mL	0.00
2) Naphthalened8	3.424	136	105129	1000.00	ng/mL	0.00
7) Acenaphthened10	4.623	164	66335	1000.00	ng/mL	0.00
12) Phenanthrd10	5.658	188	114860	1000.00	ng/mL	0.00
16) Chrysene-d12	7.512	240	98623	1000.00	ng/mL	0.00
21) Perylene-d12	8.759	264	67537	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	2.988	82	14748	50.00	%REC	0.00
Spiked Amount 100.000			Recovery = 50.00%			
8) SURR2Flbiphenyl	4.164	172	35048	50.00	%REC	0.00
Spiked Amount 100.000			Recovery = 50.00%			
18) SURRTerphenyl-d14	6.787	244	33087	50.00	ng/mL	0.00
Spiked Amount 100.000			Recovery = 50.00%			
Target Compounds						Qvalue
4) Naphthalene	3.439	128	45545	500.0000	ng/mL	100
5) 2Methylnaphth	3.907	142	28353	500.0000	ng/mL	100
6) 1Methylnaphth	3.971	142	34394	500.0000	ng/mL	100
9) Acnaphthylene	4.523	152	42216	500.0000	ng/mL	100
10) Acenaphthene	4.641	154	32016	500.0000	ng/mL	100
11) Fluorene	5.008	166	34862	500.0000	ng/mL	100
13) Phenanthrene	5.672	178	45970	500.0000	ng/mL	100
14) Anthracene	5.713	178	55079	500.0000	ng/mL	100
15) Fluoranthene	6.507	202	62339	500.0000	ng/mL	100
17) Pyrene	6.663	202	63530	500.0000	ng/mL	100
19) B[a]anthracen	7.501	228	38062	500.0000	ng/mL	100
20) Chrysene	7.528	228	56686	500.0000	ng/mL	100
22) B[b]fluoranth	8.382	252	34713	500.0000	ng/mL	100
23) B[k]fluoranth	8.409	252	41973	500.0000	ng/mL	100
24) Benz[a]pyrene	8.700	252	31660	500.0000	ng/mL	100
25) Indeno-pyrene	10.026	276	22890	500.0000	ng/mL	100
26) Dib[ah]anthr	10.067	278	16305	500.0000	ng/mL	100
27) B[ghi]perylen	10.324	276	22468	500.0000	ng/mL	100

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

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL4.D Vial: 5
Acq On : 7 Aug 2013 11:36 Operator: RPN
Sample : ICAL 500 ng/mL SVMS5717 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:03:20 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:03:00 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL5.D Vial: 4
Acq On : 7 Aug 2013 11:16 Operator: RPN
Sample : ICAL 1000 ng/mL SVMS5718 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:06:03 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:05:41 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

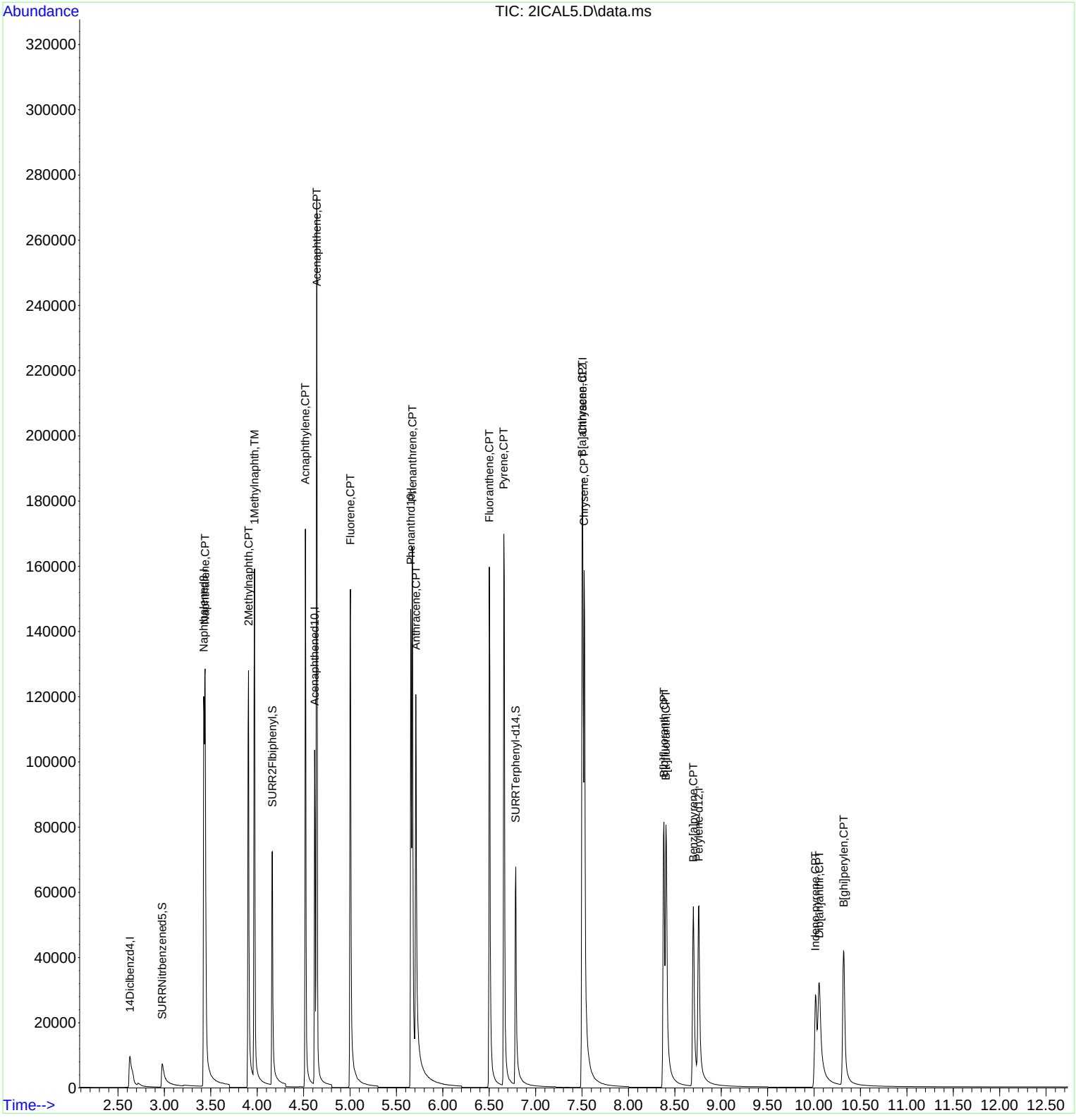
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.630	152	23133	1000.00	ng/mL	0.00
2) Naphthalened8	3.424	136	109059	1000.00	ng/mL	0.00
7) Acenaphthened10	4.619	164	67644	1000.00	ng/mL	0.00
12) Phenanthrd10	5.655	188	119891	1000.00	ng/mL	0.00
16) Chrysene-d12	7.507	240	110937	1000.00	ng/mL	0.00
21) Perylene-d12	8.759	264	81491	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	2.976	82	33594	101.74	%REC	-0.01
Spiked Amount 100.000			Recovery = 101.74%			
8) SURR2Flbiphenyl	4.164	172	77022	104.42	%REC	0.00
Spiked Amount 100.000			Recovery = 104.42%			
18) SURRTerphenyl-d14	6.786	244	75132	103.34	ng/mL	0.00
Spiked Amount 100.000			Recovery = 103.34%			
Target Compounds						Qvalue
4) Naphthalene	3.439	128	97489	1031.2086	ng/mL	100
5) 2Methylnaphth	3.907	142	64681	1033.4654	ng/mL	100
6) 1Methylnaphth	3.971	142	72574	1039.7858	ng/mL	99
9) Acnaphthylene	4.519	152	93805	1023.1898	ng/mL	95
10) Acenaphthene	4.642	154	67504	1041.0041	ng/mL	93
11) Fluorene	5.005	166	76656	1033.2140	ng/mL	94
13) Phenanthrene	5.672	178	103319	1043.1928	ng/mL	97
14) Anthracene	5.710	178	120820	1039.0980	ng/mL	100
15) Fluoranthene	6.501	202	138199	1051.7550	ng/mL	94
17) Pyrene	6.657	202	140947	1038.1311	ng/mL	91
19) B[a]anthracen	7.501	228	90440	952.1560	ng/mL	92
20) Chrysene	7.523	228	134090	1095.1563	ng/mL	88
22) B[b]fluoranth	8.382	252	87942	1041.7578	ng/mL	98
23) B[k]fluoranth	8.404	252	109840	1046.0748	ng/mL	99
24) Benz[a]pyrene	8.700	252	85294	1029.7078	ng/mL	98
25) Indeno-pyrene	10.015	276	66334	1007.8689	ng/mL	98
26) Dib[ah]anthr	10.056	278	45850	970.8571	ng/mL	98
27) B[ghi]perylen	10.320	276	61863	1016.2900	ng/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL5.D Vial: 4
Acq On : 7 Aug 2013 11:16 Operator: RPN
Sample : ICAL 1000 ng/mL SVMS5718 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:06:03 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:05:41 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL6.D Vial: 3
Acq On : 7 Aug 2013 10:56 Operator: RPN
Sample : ICAL 1500 ng/mL SVMS5719 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:04:38 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:04:07 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

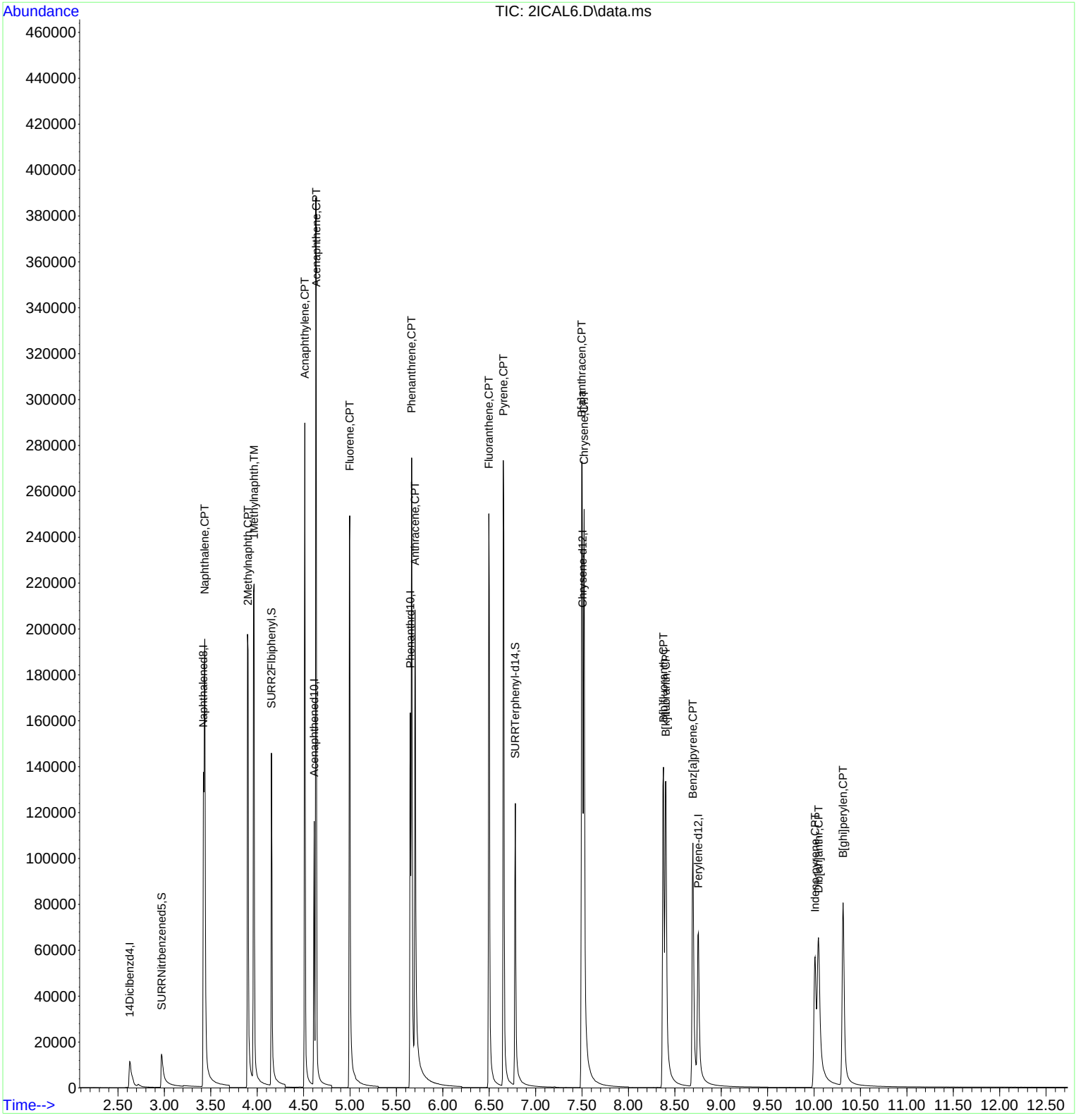
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.628	152	24313	1000.00	ng/mL	0.00
2) Naphthalened8	3.420	136	114432	1000.00	ng/mL	0.00
7) Acenaphthened10	4.614	164	71503	1000.00	ng/mL	0.00
12) Phenanthrd10	5.650	188	128725	1000.00	ng/mL	0.00
16) Chrysene-d12	7.507	240	122044	1000.00	ng/mL	0.00
21) Perylene-d12	8.754	264	95618	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	2.970	82	52298	151.42	%REC	-0.02
Spiked Amount 100.000			Recovery = 151.42%			
8) SURR2Flbiphenyl	4.154	172	116288	148.71	%REC	-0.01
Spiked Amount 100.000			Recovery = 148.71%			
18) SURRTerphenyl-d14	6.781	244	116476	143.53	ng/mL	0.00
Spiked Amount 100.000			Recovery = 143.53%			
Target Compounds						Qvalue
4) Naphthalene	3.435	128	146056	1458.9700	ng/mL	100
5) 2Methylnaphth	3.901	142	99321	1518.7176	ng/mL	99
6) 1Methylnaphth	3.966	142	107457	1451.4425	ng/mL	99
9) Acnaphthylene	4.514	152	146099	1511.4097	ng/mL	98
10) Acenaphthene	4.637	154	100918	1458.8315	ng/mL	84
11) Fluorene	4.997	166	117516	1497.6963	ng/mL	96
13) Phenanthrene	5.664	178	159547	1500.5465	ng/mL	99
14) Anthracene	5.701	178	185597	1480.0819	ng/mL	99
15) Fluoranthene	6.496	202	209954	1482.3500	ng/mL	93
17) Pyrene	6.652	202	214972	1410.6933	ng/mL	92
19) B[a]anthracen	7.496	228	163302	1596.1895	ng/mL	98
20) Chrysene	7.523	228	194010	1412.2492	ng/mL	98
22) B[b]fluoranth	8.377	252	148428	1497.7485	ng/mL	98
23) B[k]fluoranth	8.404	252	182549	1472.6728	ng/mL	98
24) Benz[a]pyrene	8.695	252	148343	1539.7596	ng/mL	98
25) Indeno-pyrene	10.011	276	122860	1640.6426	ng/mL	100
26) Dib[ah]anthr	10.048	278	87917	1633.7111	ng/mL	99
27) B[ghi]perylen	10.313	276	111277	1588.6851	ng/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL6.D Vial: 3
Acq On : 7 Aug 2013 10:56 Operator: RPN
Sample : ICAL 1500 ng/mL SVMS5719 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:04:38 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:04:07 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL7.D Vial: 2
Acq On : 7 Aug 2013 10:36 Operator: RPN
Sample : ICAL 2000 ng/mL SVMS5720 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 08 09:24:41 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:09:11 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

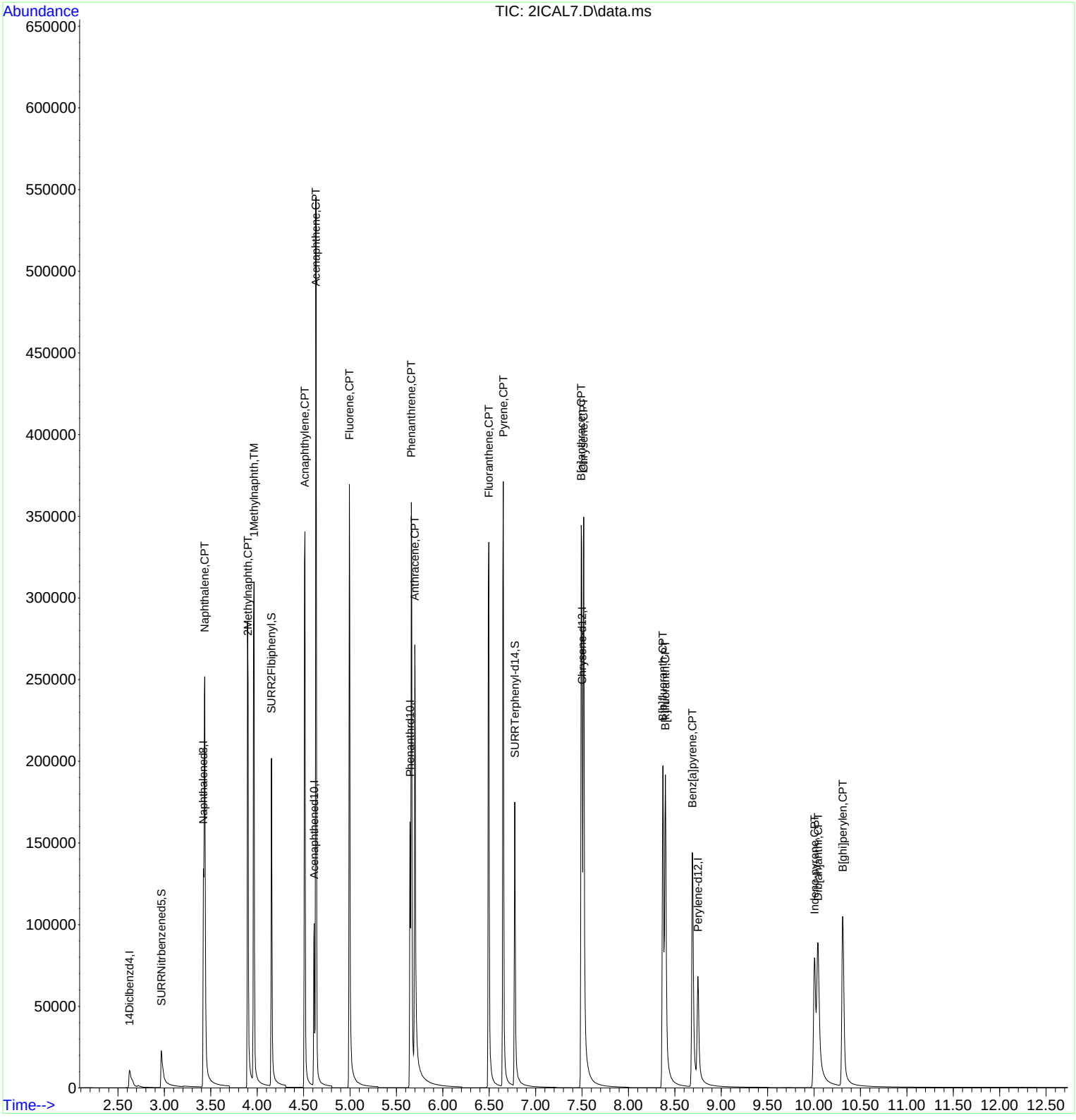
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.624	152	23450	1000.00	ng/mL	0.00
2) Naphthalened8	3.420	136	109554	1000.00	ng/mL	0.00
7) Acenaphthened10	4.615	164	67827	1000.00	ng/mL	0.00
12) Phenanthrd10	5.647	188	123620	1000.00	ng/mL	-0.01
16) Chrysene-d12	7.501	240	116665	1000.00	ng/mL	-0.01
21) Perylene-d12	8.748	264	90079	1000.00	ng/mL	-0.01
System Monitoring Compounds						
3) SURRNitrbenzened5	2.968	82	70791	231.52	%REC	-0.02
Spiked Amount 100.000			Recovery = 231.52%			
8) SURR2Flbiphenyl	4.154	172	153359	197.42	%REC	-0.01
Spiked Amount 100.000			Recovery = 197.42%			
18) SURRTerphenyl-d14	6.776	244	153731	197.38	ng/mL	-0.01
Spiked Amount 100.000			Recovery = 197.38%			
Target Compounds						Qvalue
4) Naphthalene	3.435	128	193518	2004.6593	ng/mL	99
5) 2Methylnaphth	3.901	142	132255	2330.2277	ng/mL	100
6) 1Methylnaphth	3.966	142	140148	1906.0599	ng/mL	100
9) Acnaphthylene	4.514	152	194116	2213.9877	ng/mL	99
10) Acenaphthene	4.633	154	131539	1993.7536	ng/mL	97
11) Fluorene	4.994	166	155138	2141.1059	ng/mL	71
13) Phenanthrene	5.661	178	210533	1999.7218	ng/mL	99
14) Anthracene	5.698	178	244575	1996.2358	ng/mL	98
15) Fluoranthene	6.496	202	275702	1978.1355	ng/mL	98
17) Pyrene	6.652	202	282076	1893.0732	ng/mL	98
19) B[a]anthracen	7.491	228	211093	2296.7092	ng/mL	100
20) Chrysene	7.518	228	257063	1811.4365	ng/mL	97
22) B[b]fluoranth	8.372	252	188243	2197.0107	ng/mL	99
23) B[k]fluoranth	8.399	252	243178	1968.1963	ng/mL	99
24) Benz[a]pyrene	8.689	252	194134	2110.1767	ng/mL	99
25) Indeno-pyrene	10.007	276	160069	2405.8845	ng/mL	100
26) Dib[ah]anthr	10.044	278	115799	2427.5720	ng/mL	100
27) B[ghi]perylen	10.309	276	144075	2195.0292	ng/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICAL7.D Vial: 2
Acq On : 7 Aug 2013 10:36 Operator: RPN
Sample : ICAL 2000 ng/mL SVMS5720 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 08 09:24:41 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:09:11 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Data File Name 2ICV1.D
Data File Path C:\INSTARCH\DATA\2S080713\
Operator RPN
Date Acquired 8/7/2013 12:55
Acq. Method File 2P080713.M
Sample Name ICV1 500 ng/mL SVMS5721
Misc Info 500uL+5uL IS SVMS5788
Vial Number 9
Instrument Name SVMS2

#	Name	Ret Time	Amount	Units	Area	80-120 %REC
1)	14Diclbenzd4	2.63	1000.00	ng/mL	22159	ISTD
2)	Naphthalened8	3.42	1000.00	ng/mL	104114	ISTD
3)	SURRNitrbenzened5	2.99	48.75	%REC	14166	98
4)	Naphthalene	3.44	486.62	ng/mL	44643	97
5)	2Methylnaphth	3.90	489.28	ng/mL	26391	98
6)	1Methylnaphth	3.97	472.72	ng/mL	33032	95
7)	Acenaphthened10	4.61	1000.00	ng/mL	65284	ISTD
8)	SURR2Flbiphenyl	4.16	46.59	%REC	34834	93
9)	Acnaphthylene	4.51	482.32	ng/mL	40703	96
10)	Acenaphthene	4.64	484.08	ng/mL	30740	97
11)	Fluorene	5.00	474.92	ng/mL	33121	95
12)	Phenanthrd10	5.65	1000.00	ng/mL	111737	ISTD
13)	Phenanthrene	5.67	460.77	ng/mL	43847	92
14)	Anthracene	5.70	469.26	ng/mL	51966	94
15)	Fluoranthene	6.50	467.16	ng/mL	58852	93
16)	Chrysene-d12	7.51	1000.00	ng/mL	102067	ISTD
17)	Pyrene	6.66	482.88	ng/mL	62948	97
18)	SURRTerphenyl-d14	6.78	49.00	% REC	33386	98
19)	B[a]anthracen	7.50	406.68	ng/mL	32701	81
20)	Chrysene	7.52	481.67	ng/mL	59801	96
21)	Perylene-d12	8.75	1000.00	ng/mL	72496	ISTD
22)	B[b]fluoranth	8.38	478.56	ng/mL	33000	96
23)	B[k]fluoranth	8.40	434.78	ng/mL	43233	87
24)	Benz[a]pyrene	8.69	446.08	ng/mL	33028	89
25)	Indeno-pyrene	10.02	420.09	ng/mL	22494	84
26)	Dib[ah]anthr	10.06	435.03	ng/mL	16701	87
27)	B[ghi]perylen	10.32	445.47	ng/mL	23532	89

* = %REC <80% OR > 120%

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICV1.D Vial: 9
Acq On : 7 Aug 2013 12:55 Operator: RPN
Sample : ICV1 500 ng/mL SVMS5721 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:10:16 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:09:11 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

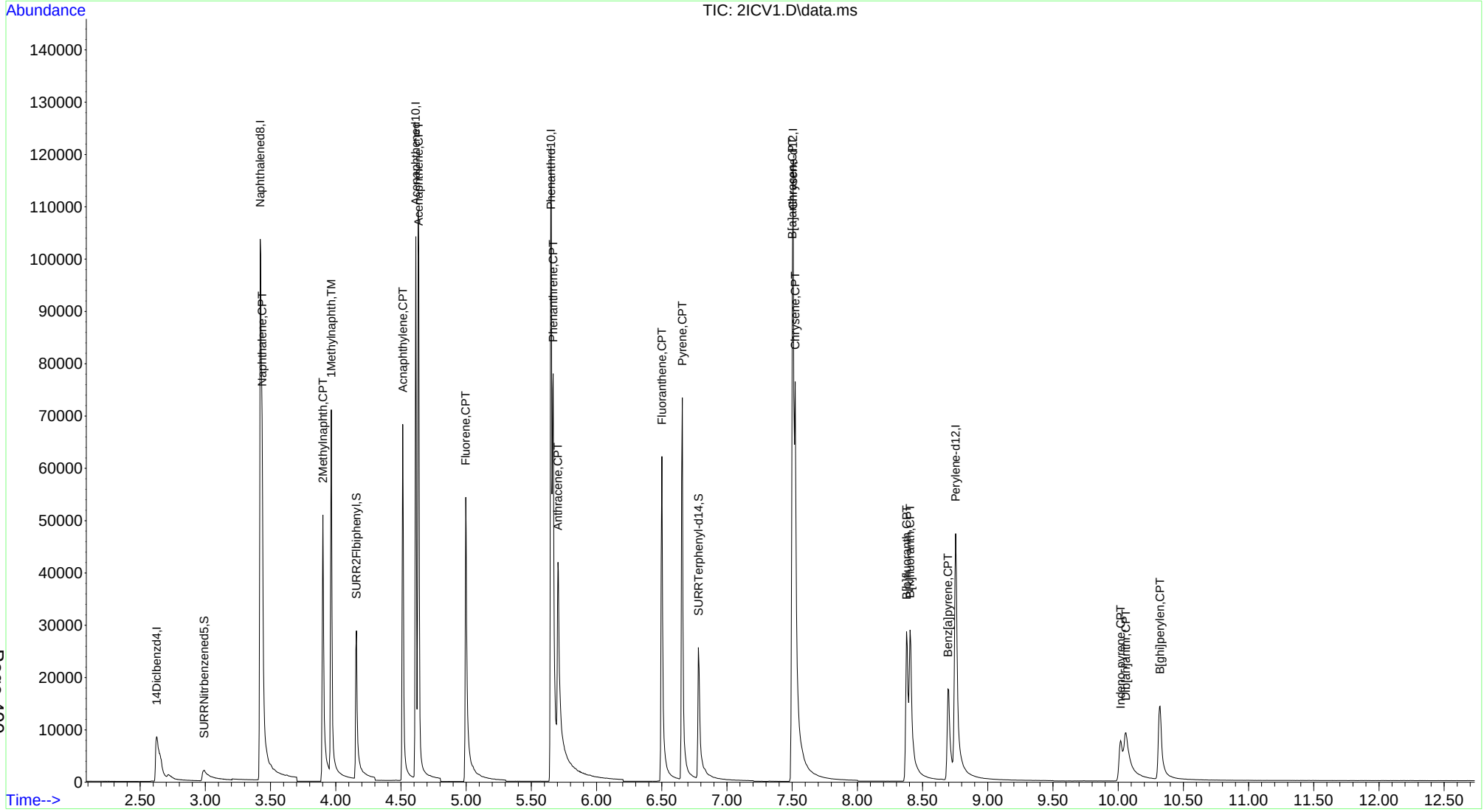
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.627	152	22159	1000.00	ng/mL	0.00
2) Naphthalened8	3.420	136	104114	1000.00	ng/mL	0.00
7) Acenaphthened10	4.614	164	65284	1000.00	ng/mL	0.00
12) Phenanthrd10	5.649	188	111737	1000.00	ng/mL	0.00
16) Chrysene-d12	7.507	240	102067	1000.00	ng/mL	0.00
21) Perylene-d12	8.754	264	72496	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	2.990	82	14166	48.75	%REC	0.00
Spiked Amount 100.000			Recovery = 48.75%			
8) SURR2Flbiphenyl	4.159	172	34834	46.59	%REC	0.00
Spiked Amount 100.000			Recovery = 46.59%			
18) SURRTerphenyl-d14	6.781	244	33386	49.00	ng/mL	0.00
Spiked Amount 100.000			Recovery = 49.00%			
Target Compounds						Qvalue
4) Naphthalene	3.435	128	44643	486.6219	ng/mL	99
5) 2Methylnaphth	3.901	142	26391	489.2842	ng/mL	100
6) 1Methylnaphth	3.966	142	33032	472.7196	ng/mL	99
9) Acnaphthylene	4.513	152	40703	482.3210	ng/mL	96
10) Acenaphthene	4.637	154	30740	484.0795	ng/mL	87
11) Fluorene	4.997	166	33121	474.9187	ng/mL	72
13) Phenanthrene	5.667	178	43847	460.7666	ng/mL	97
14) Anthracene	5.704	178	51966	469.2570	ng/mL	99
15) Fluoranthene	6.501	202	58852	467.1637	ng/mL	100
17) Pyrene	6.657	202	62948	482.8791	ng/mL	99
19) B[a]anthracen	7.501	228	32701	406.6759	ng/mL	89
20) Chrysene	7.523	228	59801	481.6674	ng/mL	97
22) B[b]fluoranth	8.377	252	33000	478.5604	ng/mL	100
23) B[k]fluoranth	8.404	252	43233	434.7795	ng/mL	99
24) Benz[a]pyrene	8.694	252	33028	446.0762	ng/mL	99
25) Indeno-pyrene	10.018	276	22494	420.0914	ng/mL	99
26) Dib[ah]anthr	10.059	278	16701	435.0301	ng/mL	100
27) B[ghi]perylen	10.320	276	23532	445.4716	ng/mL	98

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICV1.D Vial: 9
Acq On : 7 Aug 2013 12:55 Operator: RPN
Sample : ICV1 500 ng/mL SVMS5721 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:10:16 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:09:11 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Data File Name 2ICV2.D
Data File Path C:\INSTARCH\DATA\2S080713\
Operator RPN
Date Acquired 8/7/2013 13:15
Acq. Method File 2P080713.M
Sample Name ICV2 1500 ng/mL SVMS5722
Misc Info 500uL+5uL IS SVMS5788
Vial Number 10
Instrument Name SVMS2

#	Name	Ret Time	Amount	Units	Area	80-120 %REC
1)	14Diclbenzd4	2.62	1000.00	ng/mL	21652	ISTD
2)	Naphthalened8	3.42	1000.00	ng/mL	102814	ISTD
3)	SURRNitrbenzened5	2.97	158.83	%REC	45576	106
4)	Naphthalene	3.44	1455.61	ng/mL	131871	97
5)	2Methylnaphth	3.90	1595.28	ng/mL	84972	106
6)	1Methylnaphth	3.97	1382.92	ng/mL	95427	92
7)	Acenaphthened10	4.61	1000.00	ng/mL	63882	ISTD
8)	SURR2Flbiphenyl	4.15	144.58	%REC	105784	96
9)	Acnaphthylene	4.51	1531.32	ng/mL	126453	102
10)	Acenaphthene	4.63	1428.04	ng/mL	88736	95
11)	Fluorene	5.00	1464.85	ng/mL	99965	98
12)	Phenanthrd10	5.65	1000.00	ng/mL	109691	ISTD
13)	Phenanthrene	5.66	1435.86	ng/mL	134136	96
14)	Anthracene	5.70	1413.52	ng/mL	153668	94
15)	Fluoranthene	6.50	1381.42	ng/mL	170841	92
16)	Chrysene-d12	7.51	1000.00	ng/mL	98986	ISTD
17)	Pyrene	6.65	1439.86	ng/mL	182034	96
18)	SURRTerphenyl-d14	6.78	148.77	% REC	98311	99
19)	B[a]anthracen	7.50	1260.39	ng/mL	98289	84
20)	Chrysene	7.52	1451.67	ng/mL	174790	97
21)	Perylene-d12	8.75	1000.00	ng/mL	71853	ISTD
22)	B[b]fluoranth	8.38	1508.46	ng/mL	103096	101
23)	B[k]fluoranth	8.40	1398.13	ng/mL	137792	93
24)	Benz[a]pyrene	8.69	1470.52	ng/mL	107913	98
25)	Indeno-pyrene	10.01	1453.50	ng/mL	77138	97
26)	Dib[ah]anthr	10.05	1435.06	ng/mL	54604	96
27)	B[ghi]perylen	10.31	1443.59	ng/mL	75581	96

* = %REC <80% OR > 120%

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICV2.D Vial: 10
Acq On : 7 Aug 2013 13:15 Operator: RPN
Sample : ICV2 1500 ng/mL SVMS5722 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:27:48 2013

RPN
08/07/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:09:11 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

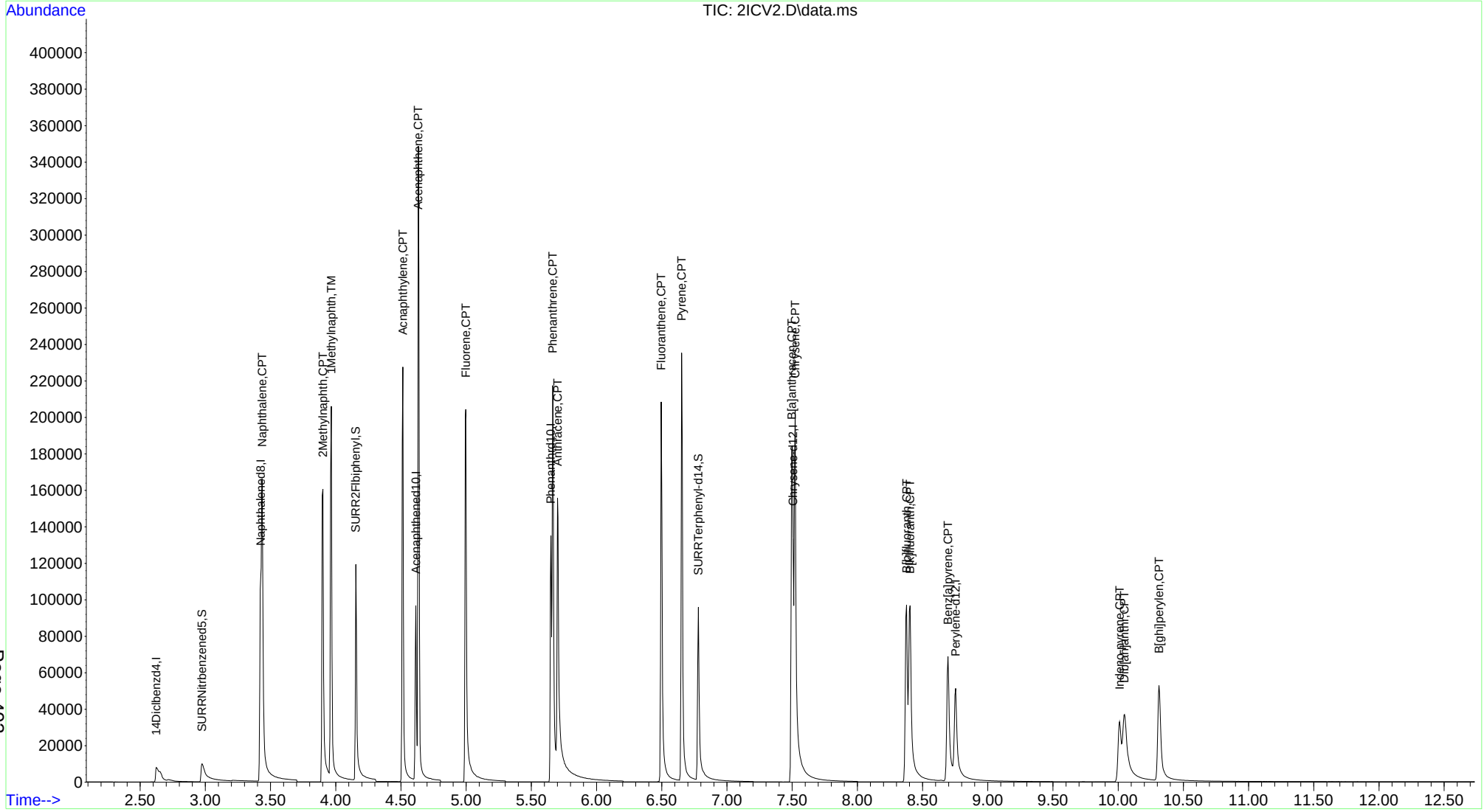
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.624	152	21652	1000.00	ng/mL	0.00
2) Naphthalened8	3.424	136	102814	1000.00	ng/mL	0.00
7) Acenaphthened10	4.615	164	63882	1000.00	ng/mL	0.00
12) Phenanthrd10	5.650	188	109691	1000.00	ng/mL	0.00
16) Chrysene-d12	7.507	240	98986	1000.00	ng/mL	0.00
21) Perylene-d12	8.754	264	71853	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	2.974	82	45576	158.83	%REC	-0.01
Spiked Amount 100.000			Recovery = 158.83%			
8) SURR2Flbiphenyl	4.154	172	105784	144.58	%REC	-0.01
Spiked Amount 100.000			Recovery = 144.58%			
18) SURRTerphenyl-d14	6.781	244	98311	148.77	ng/mL	0.00
Spiked Amount 100.000			Recovery = 148.77%			
Target Compounds						Qvalue
4) Naphthalene	3.435	128	131871	1455.6082	ng/mL	99
5) 2Methylnaphth	3.901	142	84972	1595.2843	ng/mL	100
6) 1Methylnaphth	3.966	142	95427	1382.9195	ng/mL	100
9) Acnaphthylene	4.514	152	126453	1531.3241	ng/mL	100
10) Acenaphthene	4.633	154	88736	1428.0417	ng/mL	93
11) Fluorene	4.998	166	99965	1464.8462	ng/mL	96
13) Phenanthrene	5.664	178	134136	1435.8613	ng/mL	100
14) Anthracene	5.701	178	153668	1413.5168	ng/mL	98
15) Fluoranthene	6.496	202	170841	1381.4208	ng/mL	95
17) Pyrene	6.652	202	182034	1439.8610	ng/mL	93
19) B[a]anthracen	7.496	228	98289	1260.3870	ng/mL	95
20) Chrysene	7.523	228	174790	1451.6668	ng/mL	99
22) B[b]fluoranth	8.377	252	103096	1508.4600	ng/mL	98
23) B[k]fluoranth	8.404	252	137792	1398.1275	ng/mL	98
24) Benz[a]pyrene	8.695	252	107913	1470.5156	ng/mL	98
25) Indeno-pyrene	10.011	276	77138	1453.4984	ng/mL	100
26) Dib[ah]anthr	10.048	278	54604	1435.0612	ng/mL	98
27) B[ghi]perylen	10.313	276	75581	1443.5870	ng/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S080713\2ICV2.D Vial: 10
Acq On : 7 Aug 2013 13:15 Operator: RPN
Sample : ICV2 1500 ng/mL SVMS5722 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 07 13:27:48 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 07 13:09:11 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

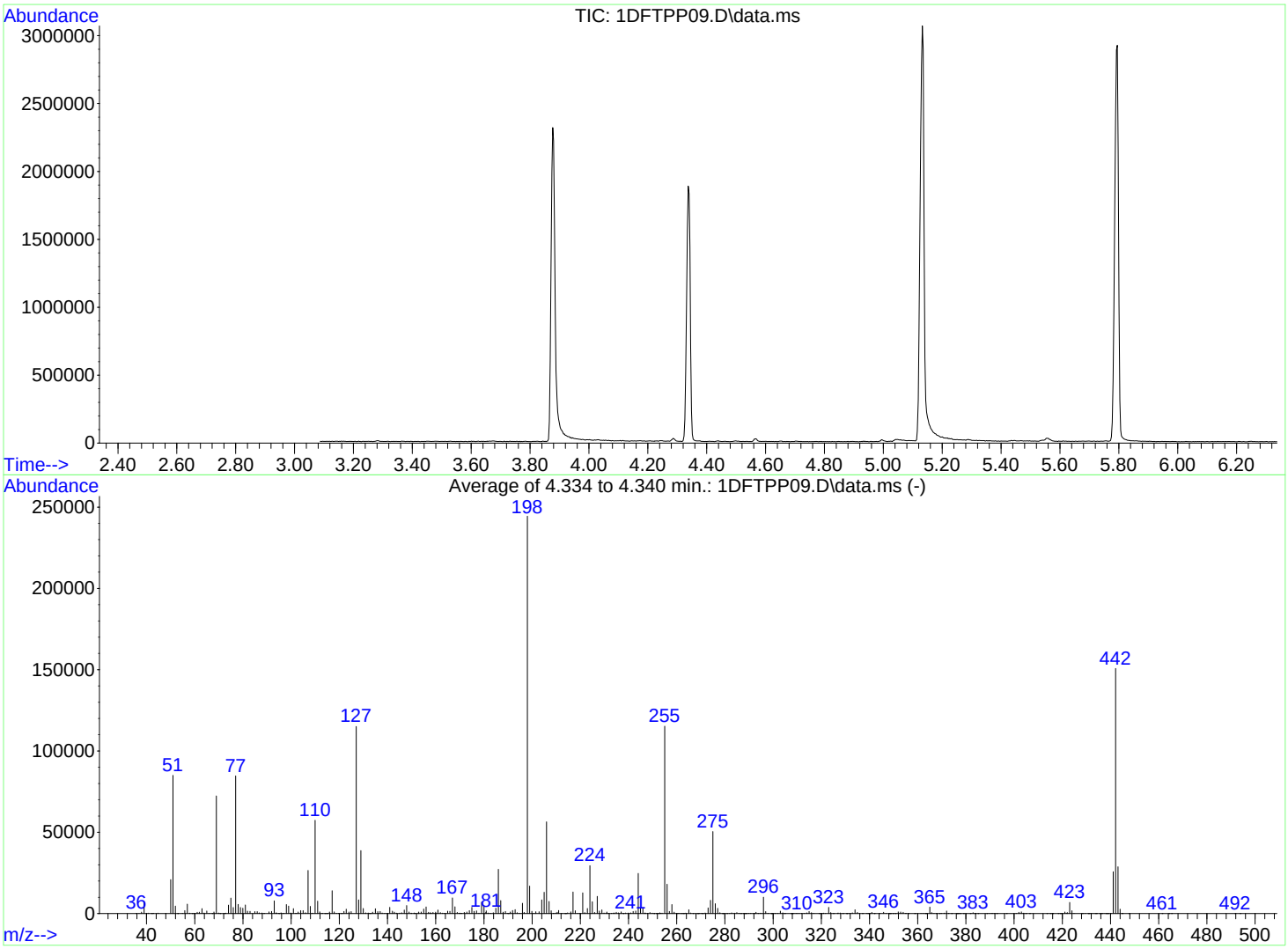


SEMI - VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

Data File : C:\INSTARCH\Data\1S082013\1DFTPP09.D Vial: 1
Acq On : 20 Aug 2013 12:38 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/20/13

Method : C:\INSTARCH\Methods\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Mon Aug 19 17:25:37 2013



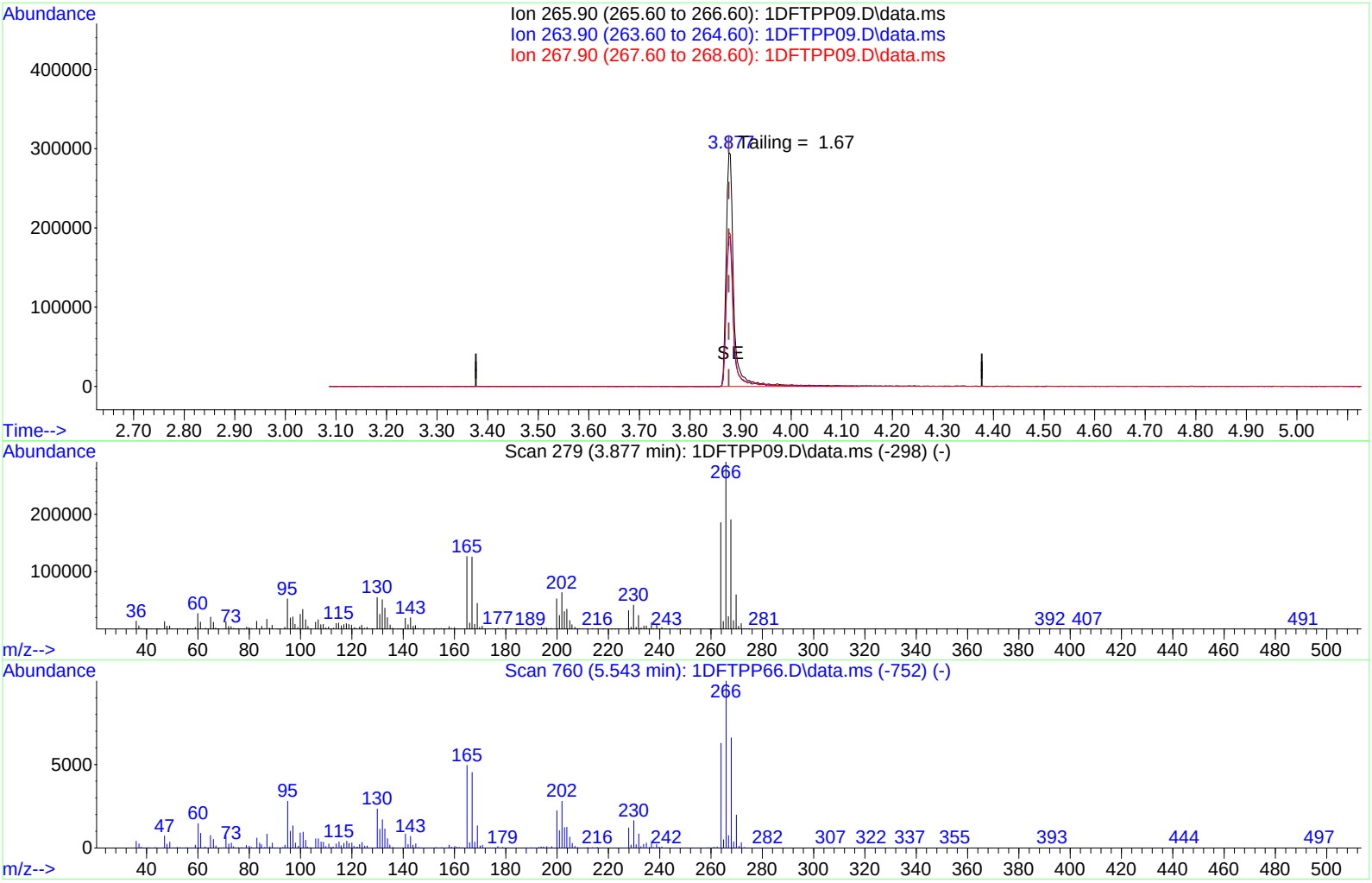
AutoFind: Scans 440, 441, 442; Background Corrected with Scan 429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.8	84984	PASS
68	69	0.00	2	1.3	925	PASS
70	69	0.00	2	0.5	389	PASS
127	198	10	80	47.1	115101	PASS
197	198	0.00	2	0.3	684	PASS
198	198	50	100	100.0	244416	PASS
199	198	5	9	6.9	16916	PASS
275	198	10	60	20.6	50445	PASS
365	198	1	100	1.6	3971	PASS
441	442	0.01	24	17.1	25720	PASS
442	198	50	100	61.7	150730	PASS
443	442	15	24	19.1	28794	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\Data\1S082013\1DFTPP09.D Vial: 1
Acq On : 20 Aug 2013 12:38 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:15:09 2013

Quant Method : C:\INSTARCH\Methods\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Mon Aug 19 17:25:37 2013
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP09.D\data.ms

(1) Pentachlorophenol

3.877min (+0.000) 52.22 ng

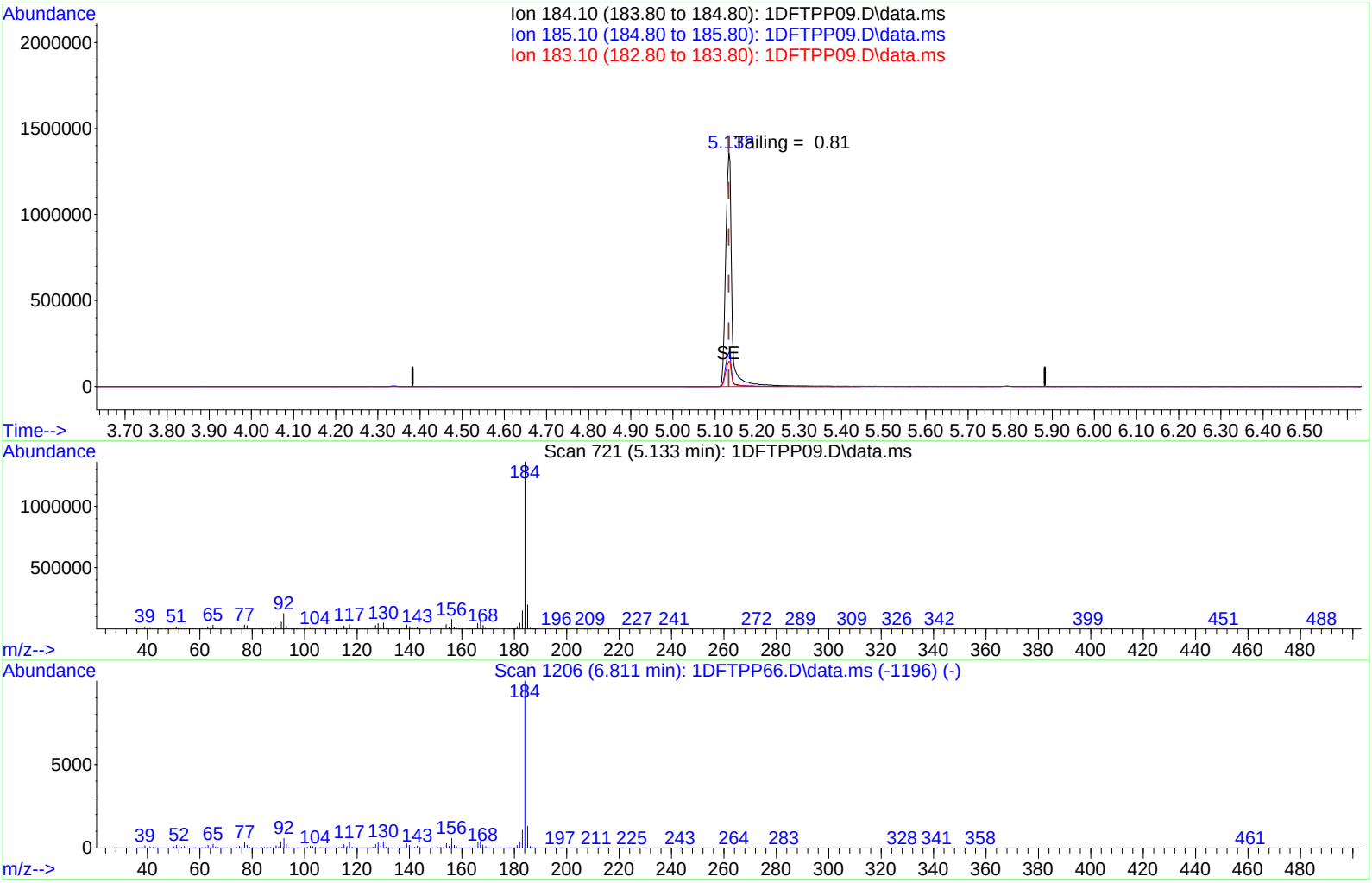
response 293285

Ion	Exp%	Act%
265.90	100	100
263.90	66.20	63.88
267.90	60.90	65.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\Data\1S082013\1DFTPP09.D Vial: 1
Acq On : 20 Aug 2013 12:38 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:15:09 2013

Quant Method : C:\INSTARCH\Methods\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Mon Aug 19 17:25:37 2013
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP09.D\data.ms

(3) Benzidine

5.133min (+0.000) 27.22 ng

response 1364630

Ion	Exp%	Act%
184.10	100	100
185.10	13.80	14.56
183.10	12.20	10.47
0.00	0.00	0.00

Data File	: 1DFTPP09.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\Data\1S082013\	Operator	: RPN
Date Acquired	: 8/20/2013 12:38	Instrument Name:	SVMS1
Sample Name	: DFTPP TUNE SVMS5691	Sample Multiplier:	1
Misc Info	: SVMS1,25 ug DFTPP		

Quant Method	: C:\INSTARCH\Methods\1DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Mon Aug 19 17:25:37 2013

Compound	R.T.	QIon	Response
1) Pentachlorophenol	3.88	266	293285
2) DFTPP	4.34	198	227320
3) Benzidine	5.13	184	1364630
4) DDE	5.29	246	734
5) DDD	5.56	235	5377
6) DDT	5.79	235	570169

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 1.06\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082013\1CCV10.D Vial: 2
Acq On : 20 Aug 2013 12:54 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:05:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	95	0.01
2	CT	Ntrsdimeth	20.000	18.593	7.0	82	0.01
3	CT	Pyridine	20.000	18.898	5.5	87	0.01
4	S	SURR2Flphenol	50.000	48.534	2.9	82	0.01
5	CT	Aniline	20.000	18.966	5.2	85	0.02
6	CPT	bis2Clethletr	20.000	19.409	3.0	90	0.01
7	S	SURRPhenol-d5	50.000	47.121	5.8	85	0.02
8	CPT	Phenol	20.000	19.957	0.2	90	0.01
9	CPT	2-Cl-phenol	20.000	19.108	4.5	88	0.01
10	CT	13Diclbenz	20.000	18.208	9.0	85	0.01
11	CT	14Diclbenz	20.000	18.858	5.7	86	0.02
12	CT	12Diclbenz	20.000	19.090	4.6	88	0.02
13	CT	Benzyl alcoho	20.000	20.988	-4.9	90	0.02
14	CPT	bis2clispreth	20.000	19.969	0.2	94	0.02
15	CPT	2Methylphenol	20.000	19.744	1.3	94	0.02
16	CT	Ntrspyrrol	20.000	20.327	-1.6	87	0.02
17	CPT	Acetophenone	20.000	19.601	2.0	87	0.02
18	CPT	Hexaclethane	20.000	19.259	3.7	89	0.02
19	CPT	N-Ntrsdinprop	20.000	19.047	4.8	87	0.02
20	CPT	3&4Methylphenol	20.000	19.247	3.8	88	0.02
21	I	Naphthalened8	20.000	20.000	0.0	97	0.02
22	S	SURRNitrbenzened5	100.000	87.998	12.0	80	0.02
23	CPT	Nitrobenzene	20.000	18.500	7.5	85	0.02
24	CPT	Isophorone	20.000	18.964	5.2	89	0.02
25	CPT	2-Nitrophenol	20.000	19.259	3.7	86	0.02
26	CPT	24Dimthpheno	20.000	20.689	-3.4	95	0.02
27	CPT	bis2clethoxym	20.000	19.539	2.3	87	0.02
28	CPT	24Diclphenol	20.000	19.505	2.5	88	0.02
29	CT	124Triclbenz	20.000	17.992	10.0	83	0.02
30	CT	Benzoic acid	20.000	20.140	-0.7	85	0.03
31	CPT	Naphthalene	20.000	21.239	-6.2	98	0.03
32	CPT	4-Cl-aniline	20.000	18.688	6.6	85	0.03
33	CT	26Diclphenol	20.000	19.209	4.0	88	0.02
34	CT	Hexaclprop	20.000	19.102	4.5	88	0.02
35	CPT	Hexaclbutdien	20.000	20.185	-0.9	95	0.02
36	CPT	4Cl3methylphe	20.000	17.984	10.1	80	0.02
37	CPT	2Methylnaphth	20.000	19.148	4.3	87	0.03
38	CT	1Methylnaphth	20.000	18.073	9.6	84	0.03
39	I	Acenaphthened10	20.000	20.000	0.0	95	0.01
40	CPT	Hxclcycpentdi	20.000	21.189	-5.9	86	0.02
41	CT	1245Tetrclbenz	20.000	18.862	5.7	87	0.02
42	CPT	246Triclpheno	20.000	20.172	-0.9	89	0.02
43	CPT	245Triclpheno	20.000	20.647	-3.2	88	0.02
44	S	SURR2Flbiphenyl	100.000	91.000	9.0	82	0.01
45	CPT	2Clnaphthalen	20.000	19.096	4.5	85	0.02
46	CPT	2Nitroaniline	20.000	20.826	-4.1	89	0.02
47	CPT	Acnaphthylene	20.000	20.308	-1.5	92	0.01
48	CPT	Dimethylphtha	20.000	18.110	9.5	83	0.00
49	CPT	26Dinitrotolu	20.000	19.261	3.7	85	0.01
50	CPT	Acenaphthene	20.000	19.639	1.8	88	0.01
51	CPT	3Nitroaniline	20.000	19.765	1.2	84	0.01

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082013\1CCV10.D Vial: 2
Acq On : 20 Aug 2013 12:54 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:05:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	20.000	18.563	7.2	87	0.01
53	CPT	Dibenzofuran	20.000	19.551	2.2	90	0.01
54	CPT	24Dinitrotolu	20.000	20.263	-1.3	86	0.01
55	CPT	4-Nitrophenol	20.000	19.705	1.5	83	0.01
56	CT	2,3,5,6-Tetrachlorop	20.000	21.655	-8.3	91	0.01
57	CPT	2,3,4,6-Tetrachlorop	20.000	17.707	11.5	76	0.01
58	CPT	Fluorene	20.000	19.748	1.3	90	0.01
59	CPT	4Clphlphlethr	20.000	19.243	3.8	88	0.01
60	CPT	Diethylphthal	20.000	19.323	3.4	87	0.00
61	CPT	4Nitroaniline	20.000	20.816	-4.1	89	0.01
62	S	SURR246Tribrphenl	50.000	46.000	8.0	81	0.01
63	I	Phenanthrd10	20.000	20.000	0.0	96	0.00
64	CPT	46Dinit2mylph	20.000	19.854	0.7	88	0.00
65	CPT	Ntrsdiphlam&Diphlam	40.000	38.844	2.9	89	0.01
66	CT	Azobenz&12Diphlhyd	40.000	35.329	11.7	85	0.01
67	CPT	4Brphlphlethr	20.000	19.731	1.3	93	0.01
68	CPT	Hexaclbenzene	20.000	19.256	3.7	90	0.01
69	CPT	Pentaclphenol	20.000	23.291	-16.5	103	0.00
70	CPT	Phenanthrene	20.000	18.473	7.6	90	0.01
71	CPT	Anthracene	20.000	18.437	7.8	90	0.01
72	CPT	Carbazole	20.000	19.026	4.9	95	0.01
73	CPT	Dinbtylphthal	20.000	18.370	8.1	84	0.00
74	CPT	Fluoranthene	20.000	18.625	6.9	88	0.01
75	I	Chrysene-d12	20.000	20.000	0.0	99	0.01
76	CT	Benzidine	20.000	15.371	23.1#	93	0.01
77	CPT	Pyrene	20.000	19.503	2.5	92	0.01
78	S	SURRTerphenyl-d14	100.000	90.746	9.3	85	0.01
79	CPT	Btylbzylphth	20.000	19.344	3.3	89	0.00
80	TM	bis2Ethlhxlad	20.000	18.631	6.8	85	0.00
81	CPT	33Diclbnzidin	20.000	17.047	14.8	84	0.01
82	CPT	B[a]anthracen	20.000	19.320	3.4	91	0.01
83	CPT	Chrysene	20.000	19.959	0.2	95	0.01
84	CPT	bis2Ethlhxlph	20.000	19.668	1.7	90	0.01
85	CPT	Dinoctylphthl	20.000	19.591	2.0	86	0.01
86	I	Perylene-d12	20.000	20.000	0.0	97	0.02
87	CPT	B[b]fluoranth	20.000	18.052	9.7	85	0.01
88	CPT	B[k]fluoranth	20.000	20.481	-2.4	93	0.02
89	CPT	Benz[a]pyrene	20.000	18.944	5.3	89	0.02
90	CPT	Indeno-pyrene	20.000	19.315	3.4	88	0.02
91	CPT	Dib[ah]anthr	20.000	19.086	4.6	84	0.02
92	CPT	B[ghi]perylen	20.000	18.550	7.2	85	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082013\1CCV10.D Vial: 2
Acq On : 20 Aug 2013 12:54 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:05:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	95	0.01
2	CT	Ntrsdimeth	0.728	0.677	7.0	82	0.01
3	CT	Pyridine	1.366	1.291	5.5	87	0.01
4	S	SURR2Flphenol	0.545	0.529	2.9	82	0.01
5	CT	Aniline	1.789	1.697	5.1	85	0.02
6	CPT	bis2Clethletr	1.210	1.175	2.9	90	0.01
7	S	SURRPhenol-d5	0.582	0.548	5.8	85	0.02
8	CPT	Phenol	1.707	1.703	0.2	90	0.01
9	CPT	2-Cl-phenol	1.455	1.390	4.5	88	0.01
10	CT	13Diclbenz	1.696	1.544	9.0	85	0.01
11	CT	14Diclbenz	1.604	1.513	5.7	86	0.02
12	CT	12Diclbenz	1.588	1.516	4.5	88	0.02
13	CT	Benzyl alcoho	0.701	0.736	-5.0	90	0.02
14	CPT	bis2clispreth	2.036	2.033	0.1	94	0.02
15	CPT	2Methylphenol	0.968	0.955	1.3	94	0.02
16	CT	Ntrspyrrol	0.521	0.529	-1.5	87	0.02
17	CPT	Acetophenone	1.556	1.524	2.1	87	0.02
18	CPT	Hexaclethane	0.605	0.582	3.8	89	0.02
19	CPT	N-Ntrsdinprop	0.706	0.672	4.8	87	0.02
20	CPT	3&4Methylphenol	1.167	1.123	3.8	88	0.02
21	I	Naphthalened8	1.000	1.000	0.0	97	0.02
22	S	SURRNitrbenzened5	0.058	0.051	12.1	80	0.02
23	CPT	Nitrobenzene	0.282	0.261	7.4	85	0.02
24	CPT	Isophorone	0.540	0.512	5.2	89	0.02
25	CPT	2-Nitrophenol	0.199	0.192	3.5	86	0.02
26	CPT	24Dimthpheno	0.279	0.289	-3.6	95	0.02
27	CPT	bis2clethoxym	0.380	0.371	2.4	87	0.02
28	CPT	24Diclphenol	0.316	0.308	2.5	88	0.02
29	CT	124Triclbenz	0.355	0.319	10.1	83	0.02
30	CT	Benzoic acid	0.156	0.157	-0.6	85	0.03
31	CPT	Naphthalene	0.962	1.022	-6.2	98	0.03
32	CPT	4-Cl-aniline	0.406	0.380	6.4	85	0.03
33	CT	26Diclphenol	0.258	0.248	3.9	88	0.02
34	CT	Hexaclprop	0.213	0.204	4.2	88	0.02
35	CPT	Hexaclbutdien	0.189	0.191	-1.1	95	0.02
36	CPT	4Cl3methylphe	0.351	0.316	10.0	80	0.02
37	CPT	2Methylnaphth	0.976	0.935	4.2	87	0.03
38	CT	1Methylnaphth	0.865	0.782	9.6	84	0.03
39	I	Acenaphthened10	1.000	1.000	0.0	95	0.01
40	CPT	Hxclcycpentdi	0.292	0.310	-6.2	86	0.02
41	CT	1245Tetrclbenz	0.615	0.580	5.7	87	0.02
42	CPT	246Triclpheno	0.393	0.397	-1.0	89	0.02
43	CPT	245Triclpheno	0.430	0.444	-3.3	88	0.02
44	S	SURR2Flbiphenyl	0.263	0.239	9.1	82	0.01
45	CPT	2Clnaphthalen	1.187	1.133	4.5	85	0.02
46	CPT	2Nitroaniline	0.234	0.244	-4.3	89	0.02
47	CPT	Acnaphthylene	1.726	1.690	2.1	92	0.01
48	CPT	Dimethylphtha	1.163	1.045	10.1	83	0.00
49	CPT	26Dinitrotolu	0.292	0.281	3.8	85	0.01
50	CPT	Acenaphthene	0.956	0.928	2.9	88	0.01
51	CPT	3Nitroaniline	0.271	0.268	1.1	84	0.01

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082013\1CCV10.D Vial: 2
Acq On : 20 Aug 2013 12:54 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:05:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	0.166	0.170	-2.4	87	0.01
53	CPT	Dibenzofuran	1.528	1.494	2.2	90	0.01
54	CPT	24Dinitrotolu	0.366	0.371	-1.4	86	0.01
55	CPT	4-Nitrophenol	0.208	0.205	1.4	83	0.01
56	CT	2,3,5,6-Tetrachlorop	0.287	0.311	-8.4	91	0.01
57	CPT	2,3,4,6-Tetrachlorop	0.342	0.303	11.4	76	0.01
58	CPT	Fluorene	1.118	1.085	3.0	90	0.01
59	CPT	4Clphlphlethr	0.568	0.546	3.9	88	0.01
60	CPT	Diethylphthal	1.130	1.080	4.4	87	0.00
61	CPT	4Nitroaniline	0.269	0.280	-4.1	89	0.01
62	S	SURR246Tribrphenl	0.066	0.061	7.6	81	0.01
63	I	Phenanthrd10	1.000	1.000	0.0	96	0.00
64	CPT	46Dinit2mylph	0.137	0.136	0.7	88	0.00
65	CPT	Ntrsdiphlam&Diphlam	0.420	0.398	5.2	89	0.01
66	CT	Azobenz&12Diphlhyd	0.149	0.130	12.8	85	0.01
67	CPT	4Brphlphlethr	0.223	0.220	1.3	93	0.01
68	CPT	Hexaclbenzene	0.235	0.226	3.8	90	0.01
69	CPT	Pentaclphenol	0.148	0.172	-16.2	103	0.00
70	CPT	Phenanthrene	1.025	0.946	7.7	90	0.01
71	CPT	Anthracene	1.064	0.981	7.8	90	0.01
72	CPT	Carbazole	1.005	0.956	4.9	95	0.01
73	CPT	Dinbtylphthal	1.367	1.255	8.2	84	0.00
74	CPT	Fluoranthene	1.205	1.122	6.9	88	0.01
75	I	Chrysene-d12	1.000	1.000	0.0	99	0.01
76	CT	Benzidine	0.737	0.566	23.2#	93	0.01
77	CPT	Pyrene	2.517	2.455	2.5	92	0.01
78	S	SURRTerphenyl-d14	0.199	0.181	9.0	85	0.01
79	CPT	Btylbzylphth	0.705	0.682	3.3	89	0.00
80	TM	bis2Ethlhxlad	0.574	0.535	6.8	85	0.00
81	CPT	33Diclbnzidin	0.304	0.259	14.8	84	0.01
82	CPT	B[a]anthracen	1.136	1.097	3.4	91	0.01
83	CPT	Chrysene	1.054	1.052	0.2	95	0.01
84	CPT	bis2Ethlhxlph	0.940	0.924	1.7	90	0.01
85	CPT	Dinoctylphthl	1.746	1.711	2.0	86	0.01
86	I	Perylene-d12	1.000	1.000	0.0	97	0.02
87	CPT	B[b]fluoranth	1.138	1.027	9.8	85	0.01
88	CPT	B[k]fluoranth	1.050	1.075	-2.4	93	0.02
89	CPT	Benz[a]pyrene	1.112	1.054	5.2	89	0.02
90	CPT	Indeno-pyrene	1.223	1.182	3.4	88	0.02
91	CPT	Dib[ah]anthr	0.909	0.868	4.5	84	0.02
92	CPT	B[ghi]perylen	1.093	1.014	7.2	85	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1CCV10.D Vial: 2
Acq On : 20 Aug 2013 12:54 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:05:43 2013

RPN
08/20/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.735	152	151109	20.00	ug/mL	-0.02
21) Naphthalened8	4.119	136	572460	20.00	ug/mL	-0.02
39) Acenaphthened10	6.296	164	441795	20.00	ug/mL	-0.01
63) Phenanthrd10	7.290	188	710421	20.00	ug/mL	-0.01
75) Chrysene-d12	8.734	240	296332	20.00	ug/mL	0.00
86) Perylene-d12	9.492	264	312901	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.891	112	199915	48.53	%REC	-0.01
Spiked Amount 100.000	Range 20 - 110		Recovery = 48.53%			
7) SURRPhenol-d5	2.488	99	207035	47.12	%REC	-0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 47.12%			
22) SURRNitrbenzened5	3.287	82	146005	88.00	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 88.00%			
44) SURR2Flbiphenyl	5.713	172	528544	91.00	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 91.00%			
62) SURR246Tribrphenl	6.872	330	67251	46.00	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 46.00%			
78) SURRTerphenyl-d14	8.225	244	268168	90.75	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 90.75%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.303	74	102285	18.5929	ug/mL	96
3) Pyridine	1.303	79	195100	18.8982	ug/mL	97
5) Aniline	2.482	93	256414	18.9656	ug/mL	87
6) bis2Clethletr	2.551	93	177482	19.4088	ug/mL	93
8) Phenol	2.497	94	257374	19.9574	ug/mL	98
9) 2-Cl-phenol	2.565	128	210004	19.1078	ug/mL	99
10) 13Diclbenz	2.681	146	233272	18.2080	ug/mL	97
11) 14Diclbenz	2.752	146	228563	18.8584	ug/mL	96
12) 12Diclbenz	2.880	146	229086	19.0902	ug/mL	99
13) Benzyl alcoho	2.900	108	111164	20.9883	ug/mL	98
14) bis2clispreth	3.036	45	307230	19.9694	ug/mL	96
15) 2Methylphenol	3.031	107	144335	19.7445	ug/mL	98
16) Ntrspyrrol	3.139	100	79993	20.3274	ug/mL	97
17) Acetophenone	3.147	105	230362	19.6008	ug/mL	99
18) Hexaclethane	3.198	117	87965	19.2586	ug/mL	99
19) N-Ntrsdinprop	3.176	70	101579	19.0469	ug/mL	98
20) 3&4Methylphenol	3.204	107	169764	19.2474	ug/mL	99
23) Nitrobenzene	3.309	77	149379	18.5001	ug/mL	99
24) Isophorone	3.605	82	292957	18.9636	ug/mL	96
25) 2-Nitrophenol	3.673	139	109774	19.2594	ug/mL	97
26) 24Dimthpheno	3.815	122	165257	20.6890	ug/mL	95
27) bis2clethoxym	3.932	93	212553	19.5389	ug/mL	97
28) 24Diclphenol	3.991	162	176147	19.5052	ug/mL	98
29) 124Triclbenz	4.071	180	182621	17.9921	ug/mL	93
30) Benzoic acid	4.065	122	90002	20.1402	ug/mL	92
31) Naphthalene	4.147	128	585005	21.2394	ug/mL	98
32) 4-Cl-aniline	4.292	127	217310	18.6877	ug/mL	99
33) 26Diclphenol	4.281	162	141739	19.2090	ug/mL	97
34) Hexaclprop	4.270	213	116689	19.1024	ug/mL	98
35) Hexaclbutdien	4.361	225	109089	20.1852	ug/mL	98
36) 4Cl3methylphe	5.088	107	180812	17.9844	ug/mL	97
37) 2Methylnaphth	5.148	142	534982	19.1476	ug/mL	98
38) 1Methylnaphth	5.298	141	447523	18.0731	ug/mL	99
40) Hxclcycpentdi	5.418	237	136869	21.1892	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1CCV10.D Vial: 2
Acq On : 20 Aug 2013 12:54 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:05:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

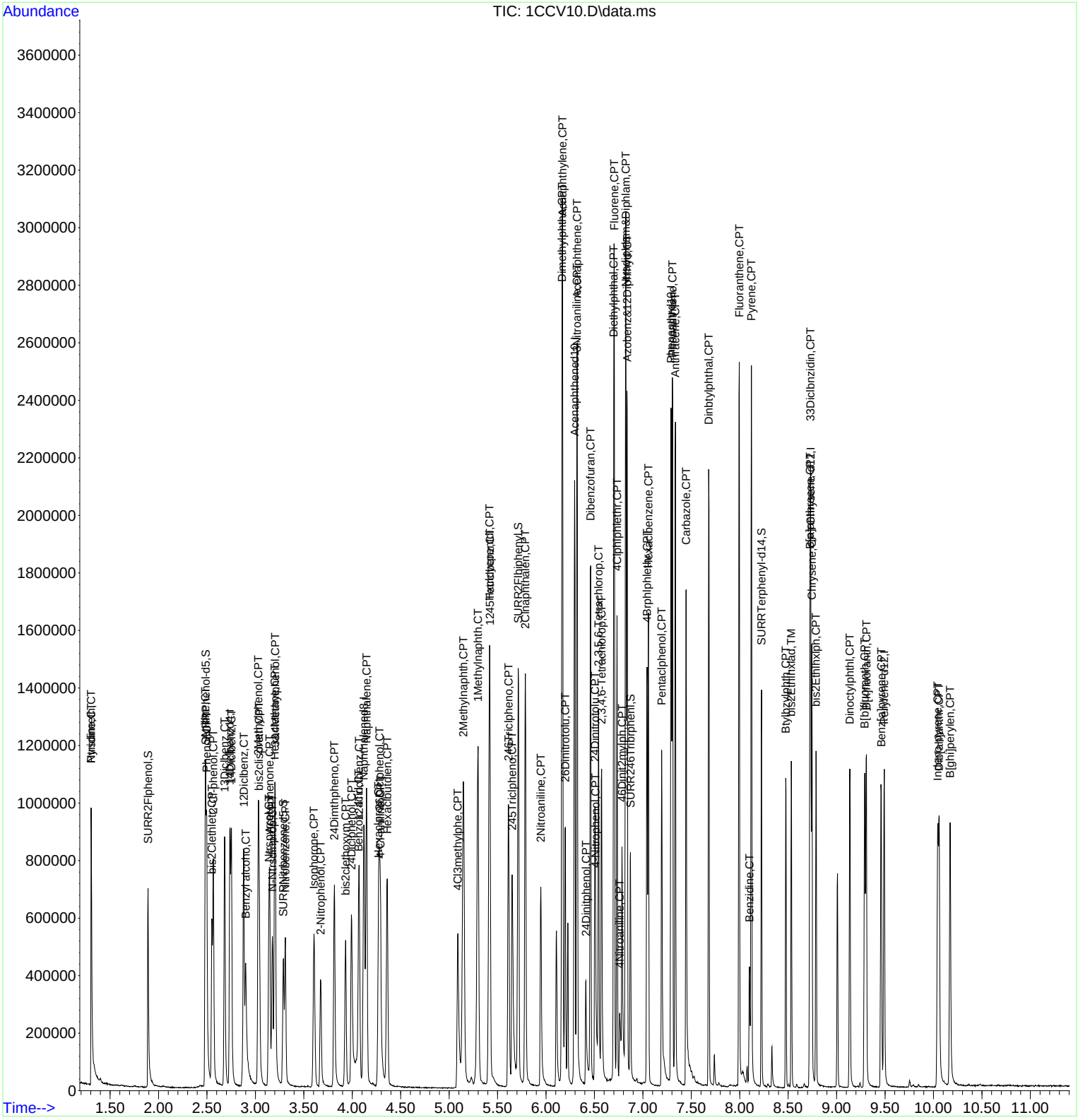
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.420	216	256318	18.8622	ug/mL	98
42) 246Triclpheno	5.614	196	175316	20.1715	ug/mL	100
43) 245Triclpheno	5.651	196	196197	20.6466	ug/mL	98
45) 2Clnaphthalen	5.787	162	500513	19.0963	ug/mL	97
46) 2Nitroaniline	5.946	65	107733	20.8256	ug/mL	97
47) Acnaphthylene	6.171	152	746453	20.3076	ug/mL	99
48) Dimethylphtha	6.165	163	461757	18.1098	ug/mL	100
49) 26Dinitrotolu	6.199	165	124242	19.2608	ug/mL	99
50) Acenaphthene	6.321	154	410148	19.6389	ug/mL	98
51) 3Nitroaniline	6.318	138	118516	19.7655	ug/mL	98
52) 24Dinitphenol	6.412	184	75160	18.5633	ug/mL	95
53) Dibenzofuran	6.460	168	659957	19.5506	ug/mL	97
54) 24Dinitrotolu	6.506	165	164013	20.2628	ug/mL	97
55) 4-Nitrophenol	6.512	139	90642	19.7047	ug/mL	96
56) 2,3,5,6-Tetrachlorop	6.543	232	137262	21.6552	ug/mL	94
57) 2,3,4,6-Tetrachlorop	6.574	232	133744	17.7073	ug/mL	97
58) Fluorene	6.705	166	479224	19.7477	ug/mL	100
59) 4Clphlphlethr	6.733	204	241310	19.2426	ug/mL	96
60) Diethylphthal	6.699	149	477040	19.3233	ug/mL	98
61) 4Nitroaniline	6.762	138	123809	20.8157	ug/mL	97
64) 46Dinit2mylph	6.784	198	96674	19.8541	ug/mL	94
65) Ntrsdiphlam&Diphlam	6.824	169	565290	38.8441	ug/mL	99
66) Azobenz&12Diphlhyd	6.838	182	184268	35.3293	ug/mL	94
67) 4Brphlphlethr	7.043	248	156624	19.7309	ug/mL	95
68) Hexaclbenzene	7.057	284	160874	19.2557	ug/mL	100
69) Pentaclphenol	7.194	266	122503	23.2906	ug/mL	99
70) Phenanthrene	7.307	178	672396	18.4729	ug/mL	99
71) Anthracene	7.336	178	697111	18.4365	ug/mL	99
72) Carbazole	7.446	167	679429	19.0256	ug/mL	100
73) Dinbtylphthal	7.679	149	891650	18.3695	ug/mL	99
74) Fluoranthene	7.995	202	796965	18.6252	ug/mL	99
76) Benzidine	8.100	184	167797	15.3712	ug/mL	99
77) Pyrene	8.120	202	727450	19.5027	ug/mL	99
79) Btylbzylphth	8.475	149	202045	19.3436	ug/mL	98
80) bis2Ethlhxlad	8.532	129	158432	18.6315	ug/mL	99
81) 33Diclbnzidin	8.731	252	76833	17.0469	ug/mL	97
82) B[a]anthracen	8.725	228	325098	19.3197	ug/mL	98
83) Chrysene	8.745	228	311599	19.9587	ug/mL	98
84) bis2Ethlhxlph	8.788	149	273788	19.6680	ug/mL	97
85) Dinoctylphthl	9.137	149	506886	19.5911	ug/mL	98
87) B[b]fluoranth	9.290	252	321354	18.0515	ug/mL	97
88) B[k]fluoranth	9.308	252	336319	20.4808	ug/mL	98
89) Benz[a]pyrene	9.461	252	329675	18.9439	ug/mL	100
90) Indeno-pyrene	10.043	276	369721	19.3154	ug/mL	97
91) Dib[ah]anthr	10.058	278	271506	19.0863	ug/mL	98
92) B[ghi]perylen	10.171	276	317153	18.5496	ug/mL	96

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1CCV10.D Vial: 2
Acq On : 20 Aug 2013 12:54 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:05:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

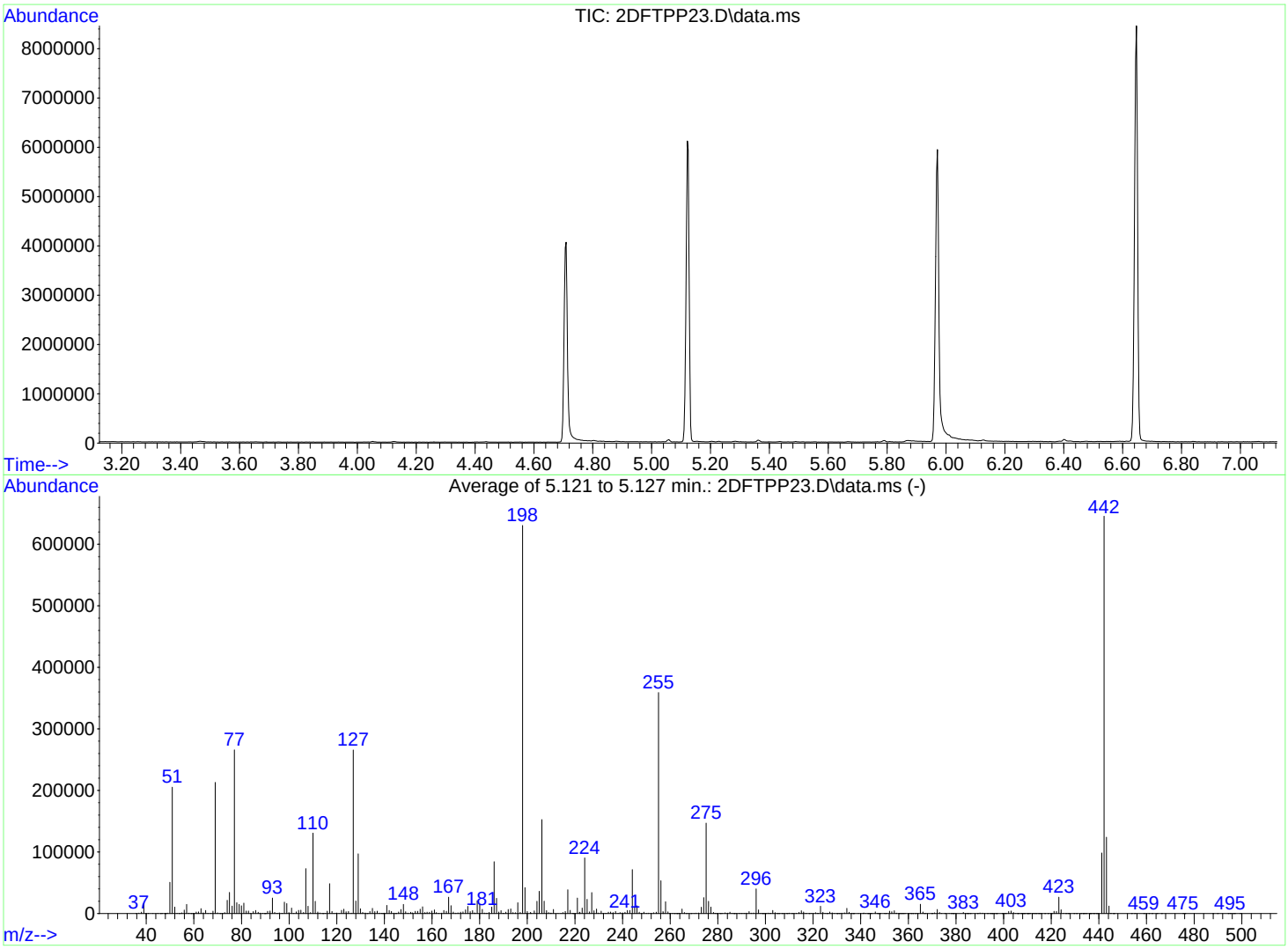


DFTPP

Data File : C:\INSTARCH\DATA\2S082113\2DFTPP23.D Vial: 1
Acq On : 21 Aug 2013 10:31 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/21/13

Method : C:\INSTARCH\METHOD\2SIMDFT.M
Title : DFTPP TUNE Method
Last Update : Tue Aug 13 17:56:08 2013



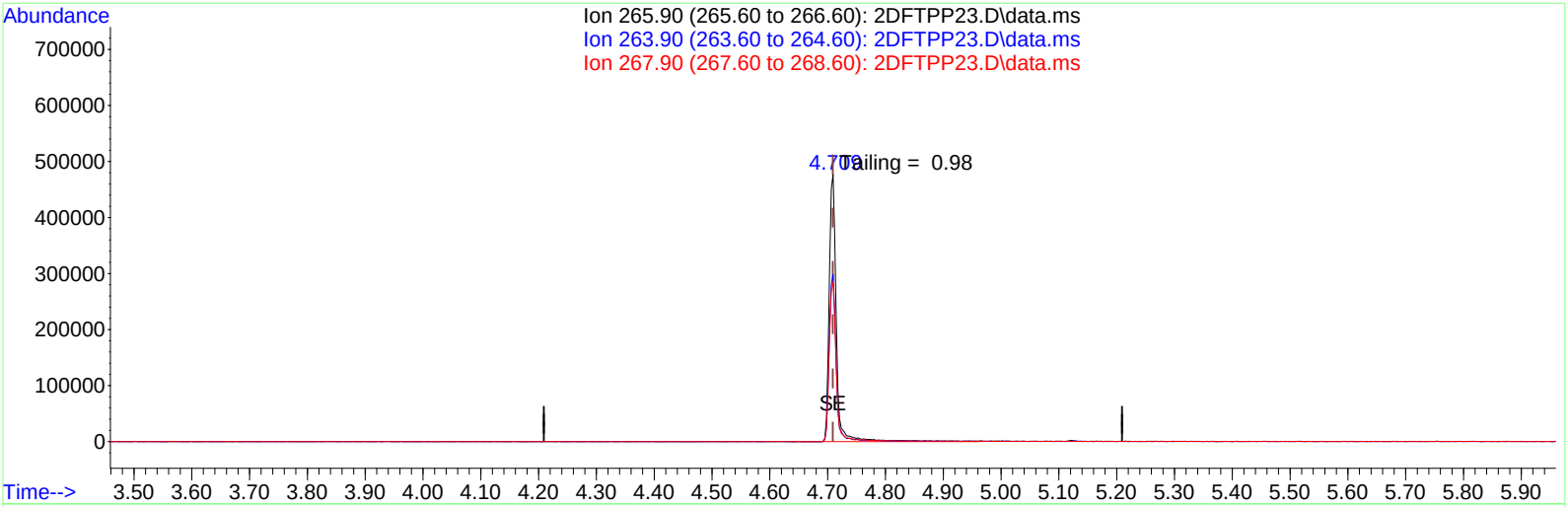
AutoFind: Scans 717, 718, 719; Background Corrected with Scan 706

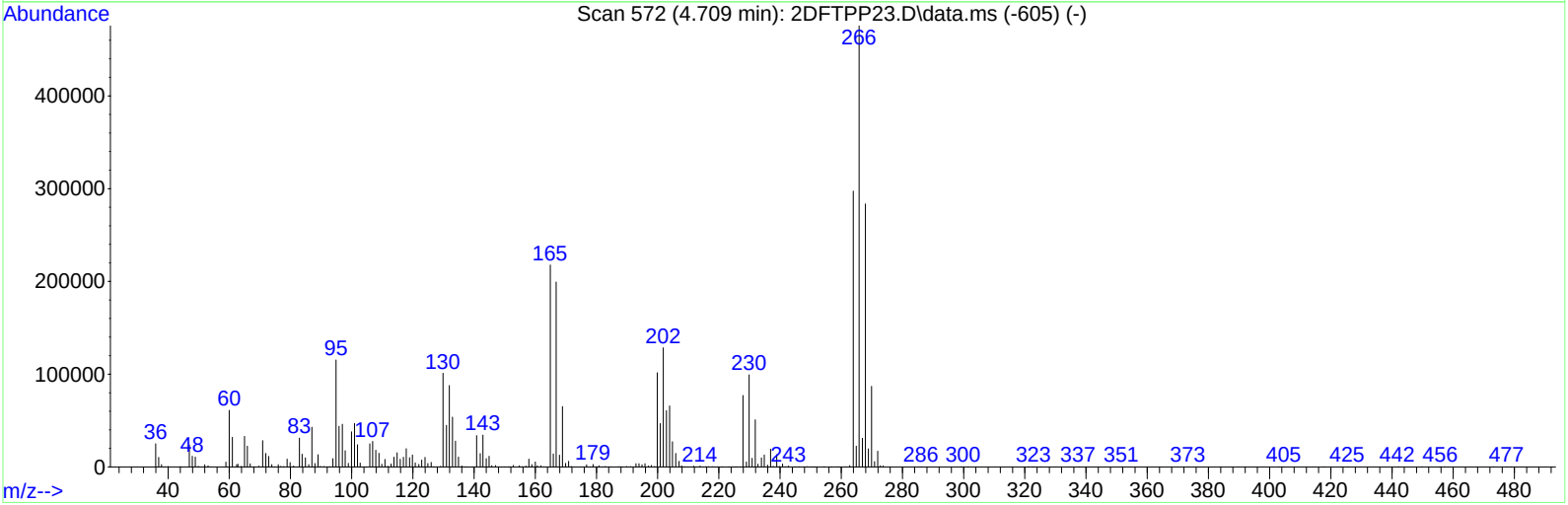
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	31.8	205215	PASS
68	69	0.00	2	1.8	3833	PASS
70	69	0.00	2	0.5	1160	PASS
127	442	10	80	41.1	265622	PASS
197	198	0.00	2	0.3	1788	PASS
198	442	50	100	97.6	630378	PASS
199	198	5	9	6.7	42090	PASS
275	442	10	60	22.7	146865	PASS
365	198	1	100	2.4	15178	PASS
441	442	0.01	24	15.2	98384	PASS
442	442	50	100	100.0	645568	PASS
443	442	15	24	19.2	124138	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S082113\2DFTPP23.D Vial: 1
Acq On : 21 Aug 2013 10:31 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:30:49 2013

Quant Method : C:\INSTARCH\METHOD\2SIMDFT.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Aug 13 17:56:08 2013
Response via : Initial Calibration
DataAcq Meth:2SIMDFT.M





TIC: 2DFTPP23.D\data.ms

(1) Pentachlorophenol

4.709min (+0.000) 115.51 ng

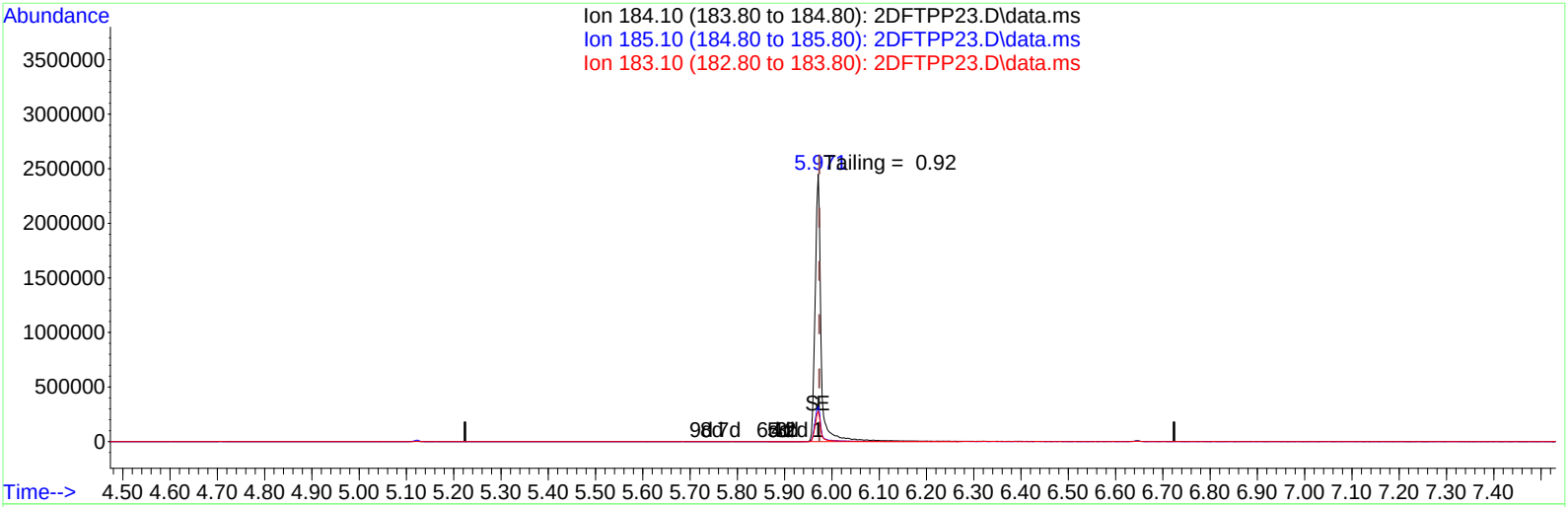
response 399309

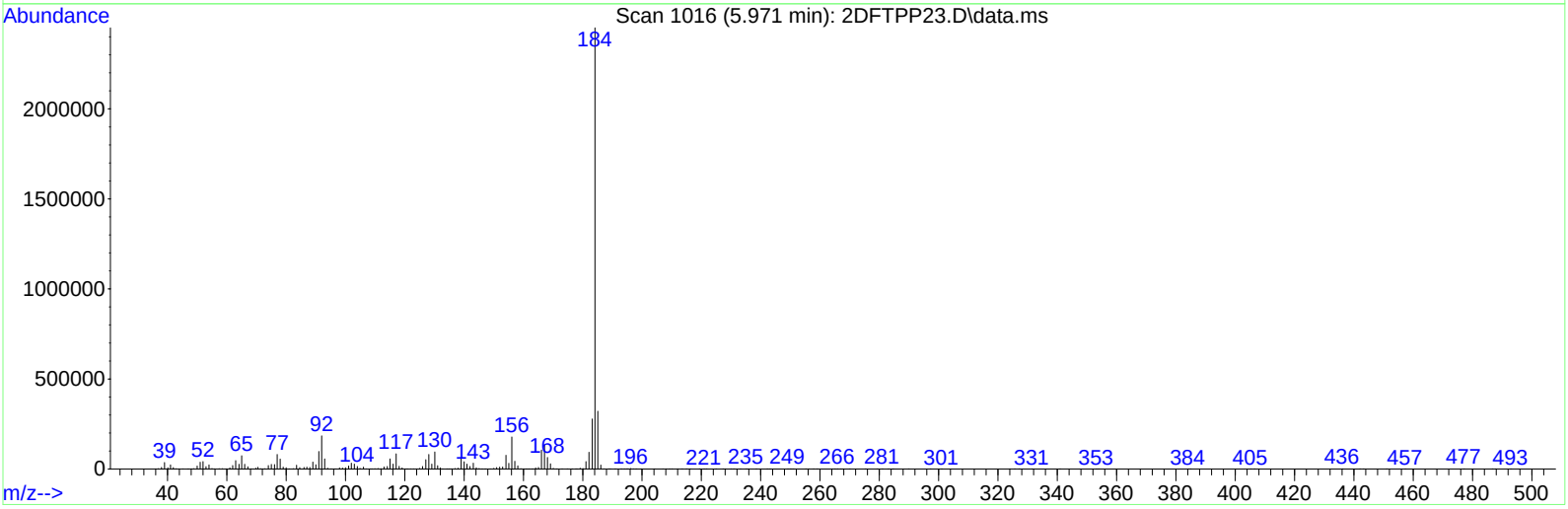
Ion	Exp%	Act%
265.90	100	100
263.90	63.20	62.54
267.90	63.10	59.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S082113\2DFTPP23.D Vial: 1
Acq On : 21 Aug 2013 10:31 Operator: RPN
Sample : DFTPP SVMS5691 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:30:49 2013

Quant Method : C:\INSTARCH\METHOD\2SIMDFT.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Aug 13 17:56:08 2013
Response via : Initial Calibration
DataAcq Meth:2SIMDFT.M





TIC: 2DFTPP23.D\data.ms

(3) Benzidine

5.971min (-0.003) 115.40 ng

response 2198186

Ion	Exp%	Act%
184.10	100	100
185.10	15.00	13.46
183.10	11.40	11.10
0.00	0.00	0.00

Data File	: 2DFTPP23.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S082113\	Operator	: RPN
Date Acquired	: 8/21/2013 10:31	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS5691	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2SIMDFT.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Tue Aug 13 17:56:08 2013

Compound	R.T.	QIon	Response
1) Pentachlorophenol	4.71	266	399309
2) DFTPP	5.12	198	523385
3) Benzidine	5.97	184	2198186
4) DDE	6.13	246	1948
5) DDD	6.40	235	8783
6) DDT	6.65	235	1245523

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 0.85\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S082113\2CCV20.D Vial: 2
Acq On : 21 Aug 2013 10:46 Operator: RPN
Sample : CCV 500 ng/mL SVMS5723 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 11:00:49 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 11:00:45 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1000.000	1000.000	0.0	93	0.00
2	I	Naphthalened8	1000.000	1000.000	0.0	90	-0.02
3	S	SURRNitrbenzened5	50.000	51.039	-2.1	92	-0.02
4	CPT	Naphthalene	500.000	495.728	0.9	91	-0.02
5	CPT	2Methylnaphth	500.000	561.424	-12.3	98	-0.02
6	TM	1Methylnaphth	500.000	466.416	6.7	87	-0.02
7	I	Acenaphthened10	1000.000	1000.000	0.0	85	-0.02
8	S	SURR2Flbiphenyl	50.000	51.150	-2.3	94	-0.02
9	CPT	Acnaphthylene	500.000	502.980	-0.6	87	-0.02
10	CPT	Acenaphthene	500.000	494.509	1.1	85	-0.02
11	CPT	Fluorene	500.000	512.610	-2.5	88	-0.02
12	I	Phenanthrd10	1000.000	1000.000	0.0	86	-0.02
13	CPT	Phenanthrene	500.000	513.001	-2.6	94	-0.02
14	CPT	Anthracene	500.000	453.874	9.2	81	-0.02
15	CPT	Fluoranthene	500.000	468.446	6.3	84	-0.02
16	I	Chrysene-d12	1000.000	1000.000	0.0	93	-0.02
17	CPT	Pyrene	500.000	457.940	8.4	84	-0.02
18	S	SURRTerphenyl-d14	50.000	48.299	3.4	89	-0.02
19	CPT	B[a]anthracen	500.000	545.111	-9.0	103	-0.02
20	CPT	Chrysene	500.000	454.837	9.0	89	-0.02
21	I	Perylene-d12	1000.000	1000.000	0.0	99	-0.03
22	CPT	B[b]fluoranth	500.000	531.950	-6.4	98	-0.03
23	CPT	B[k]fluoranth	500.000	475.510	4.9	104	-0.04
24	CPT	Benz[a]pyrene	500.000	473.864	5.2	103	-0.03
25	CPT	Indeno-pyrene	500.000	563.642	-12.7	122	-0.04
26	CPT	Dib[ah]anthr	500.000	593.231	-18.6	129	-0.05
27	CPT	B[ghi]perylen	500.000	526.887	-5.4	115	-0.04

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

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S082113\2CCV20.D Vial: 2
Acq On : 21 Aug 2013 10:46 Operator: RPN
Sample : CCV 500 ng/mL SVMS5723 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 11:00:49 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 11:00:45 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	93	0.00
2	I	Naphthalened8	1.000	1.000	0.0	90	-0.02
3	S	SURRNitrbenzened5	2.791	2.849	-2.1	92	-0.02
4	CPT	Naphthalene	0.881	0.874	0.8	91	-0.02
5	CPT	2Methylnaphth	0.518	0.582	-12.4	98	-0.02
6	TM	1Methylnaphth	0.671	0.626	6.7	87	-0.02
7	I	Acenaphthened10	1.000	1.000	0.0	85	-0.02
8	S	SURR2Flbiphenyl	11.453	11.717	-2.3	94	-0.02
9	CPT	Acnaphthylene	1.293	1.300	-0.5	87	-0.02
10	CPT	Acenaphthene	0.973	0.962	1.1	85	-0.02
11	CPT	Fluorene	1.068	1.095	-2.5	88	-0.02
12	I	Phenanthrd10	1.000	1.000	0.0	86	-0.02
13	CPT	Phenanthrene	0.852	0.874	-2.6	94	-0.02
14	CPT	Anthracene	0.991	0.900	9.2	81	-0.02
15	CPT	Fluoranthene	1.127	1.056	6.3	84	-0.02
16	I	Chrysene-d12	1.000	1.000	0.0	93	-0.02
17	CPT	Pyrene	1.277	1.170	8.4	84	-0.02
18	S	SURRTerphenyl-d14	6.676	6.449	3.4	89	-0.02
19	CPT	B[a]anthracen	0.788	0.859	-9.0	103	-0.02
20	CPT	Chrysene	1.216	1.107	9.0	89	-0.02
21	I	Perylene-d12	1.000	1.000	0.0	99	-0.03
22	CPT	B[b]fluoranth	0.951	1.012	-6.4	98	-0.03
23	CPT	B[k]fluoranth	1.372	1.304	5.0	104	-0.04
24	CPT	Benz[a]pyrene	1.021	0.968	5.2	103	-0.03
25	CPT	Indeno-pyrene	0.739	0.833	-12.7	122	-0.04
26	CPT	Dib[ah]anthr	0.530	0.628	-18.5	129	-0.05
27	CPT	B[ghi]perylen	0.729	0.768	-5.3	115	-0.04

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2CCV20.D Vial: 2
Acq On : 21 Aug 2013 10:46 Operator: RPN
Sample : CCV 500 ng/mL SVMS5723 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 11:00:49 2013

RPN
08/21/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 11:00:45 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

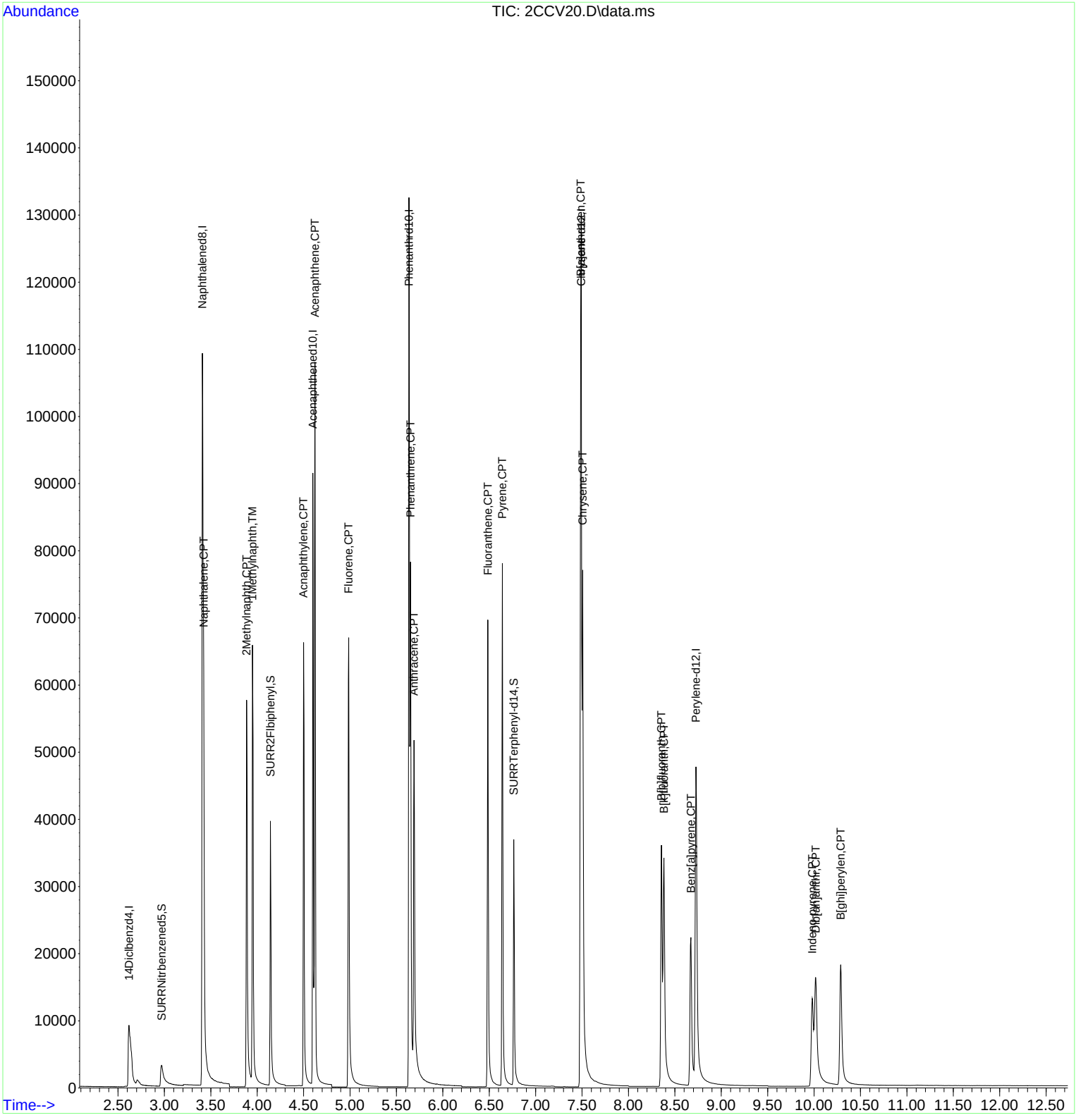
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.619	152	20960	1000.00	ng/mL	0.00
2) Naphthalened8	3.409	136	95123	1000.00	ng/mL	0.00
7) Acenaphthened10	4.600	164	56269	1000.00	ng/mL	0.00
12) Phenanthrd10	5.635	188	99300	1000.00	ng/mL	0.00
16) Chrysene-d12	7.490	240	91282	1000.00	ng/mL	0.00
21) Perylene-d12	8.727	264	67131	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	2.970	82	13550	51.04	%REC	0.00
Spiked Amount 100.000			Recovery = 51.04%			
8) SURR2Flbiphenyl	4.143	172	32964	51.15	%REC	0.00
Spiked Amount 100.000			Recovery = 51.15%			
18) SURRTerphenyl-d14	6.765	244	29433	48.30	ng/mL	0.00
Spiked Amount 100.000			Recovery = 48.30%			
Target Compounds						Qvalue
4) Naphthalene	3.424	128	41551	495.7279	ng/mL	99
5) 2Methylnaphth	3.885	142	27667	561.4241	ng/mL	100
6) 1Methylnaphth	3.950	142	29777	466.4158	ng/mL	100
9) Acnaphthylene	4.500	152	36585	502.9796	ng/mL	94
10) Acenaphthene	4.623	154	27066	494.5093	ng/mL	94
11) Fluorene	4.985	166	30813	512.6103	ng/mL	92
13) Phenanthrene	5.652	178	43384	513.0013	ng/mL	99
14) Anthracene	5.689	178	44668	453.8745	ng/mL	99
15) Fluoranthene	6.485	202	52445	468.4462	ng/mL	98
17) Pyrene	6.641	202	53389	457.9399	ng/mL	98
19) B[a]anthracen	7.485	228	39201	545.1108	ng/mL	86
20) Chrysene	7.507	228	50503	454.8374	ng/mL	98
22) B[b]fluoranth	8.355	252	33967	531.9502	ng/mL	99
23) B[k]fluoranth	8.382	252	43784	475.5104	ng/mL	99
24) Benz[a]pyrene	8.673	252	32489	473.8643	ng/mL	97
25) Indeno-pyrene	9.981	276	27947	563.6418	ng/mL	99
26) Dib[ah]anthr	10.018	278	21089	593.2309	ng/mL	100
27) B[ghi]perylen	10.287	276	25773	526.8865	ng/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2CCV20.D Vial: 2
Acq On : 21 Aug 2013 10:46 Operator: RPN
Sample : CCV 500 ng/mL SVMS5723 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 11:00:49 2013

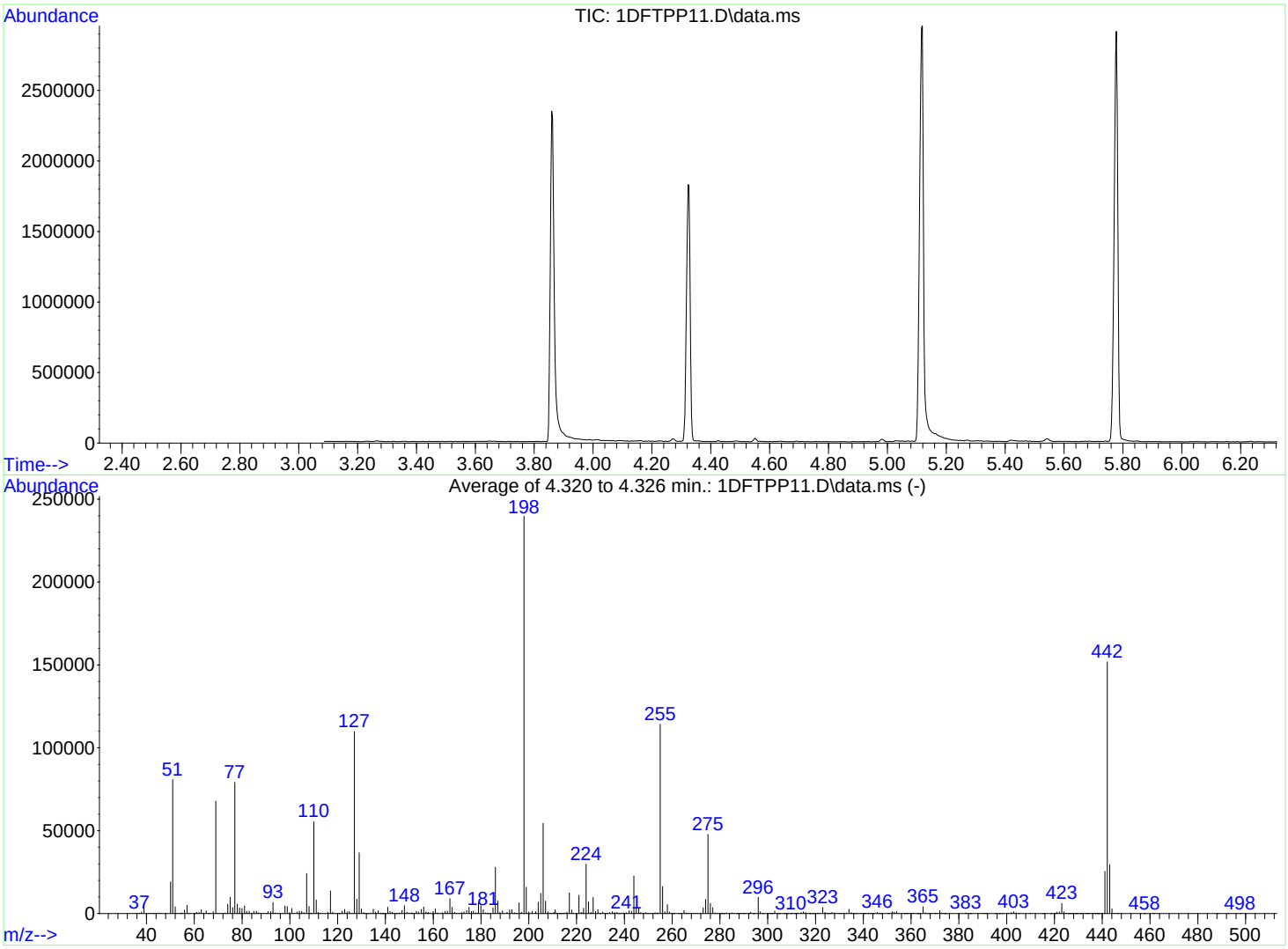
Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 11:00:45 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Data File : C:\INSTARCH\Data\1S082213\1DFTPP11.D Vial: 1
Acq On : 22 Aug 2013 12:42 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE

RPN
08/23/13

Method : C:\INSTARCH\Methods\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Mon Aug 19 17:25:37 2013



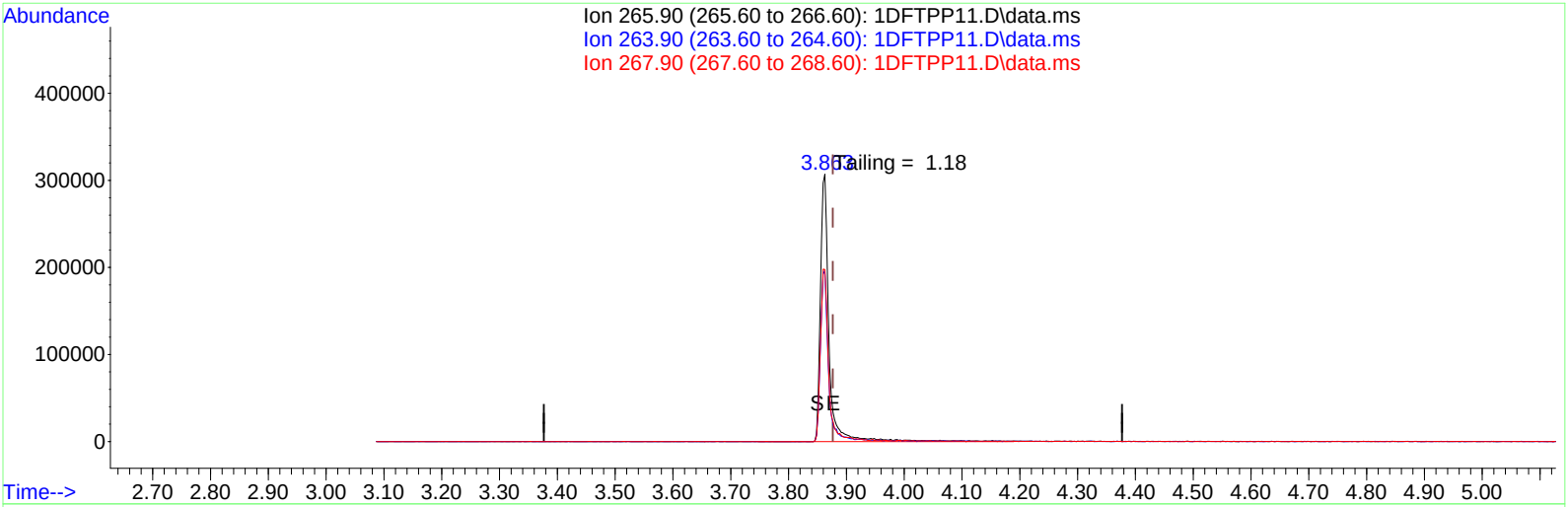
AutoFind: Scans 435, 436, 437; Background Corrected with Scan 427

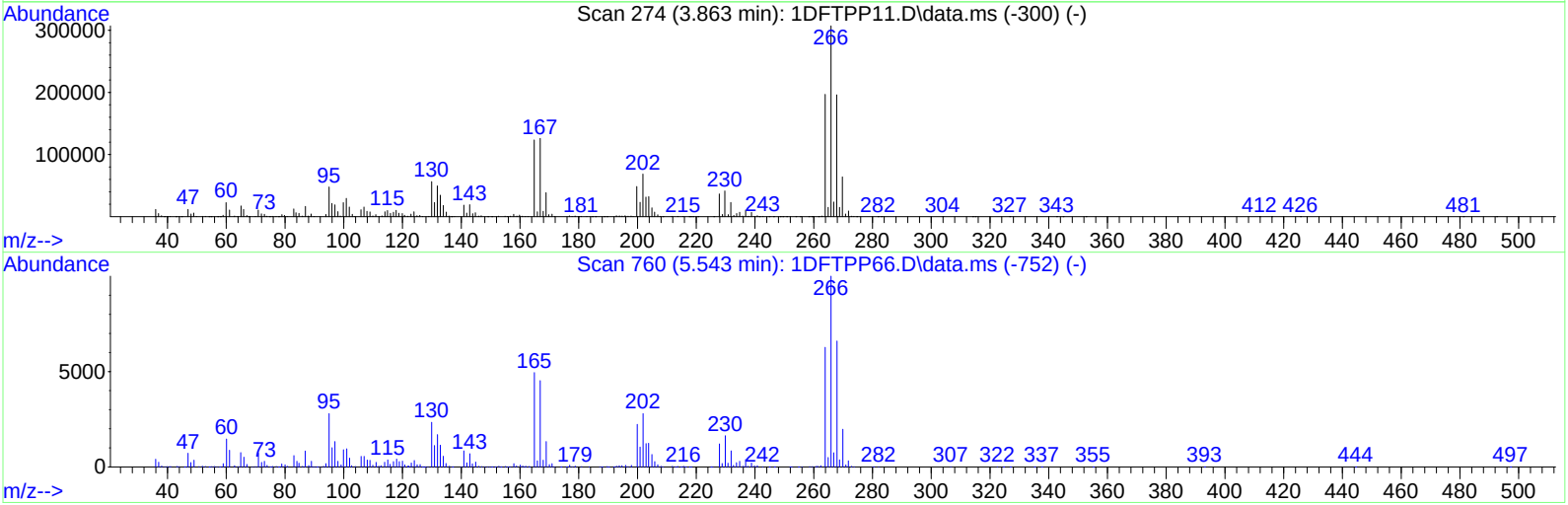
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.7	80801	PASS
68	69	0.00	2	1.6	1081	PASS
70	69	0.00	2	0.4	238	PASS
127	198	10	80	45.8	109738	PASS
197	198	0.00	2	0.3	659	PASS
198	198	50	100	100.0	239722	PASS
199	198	5	9	6.6	15909	PASS
275	198	10	60	19.9	47762	PASS
365	198	1	100	1.8	4215	PASS
441	442	0.01	24	16.8	25525	PASS
442	198	50	100	63.4	151869	PASS
443	442	15	24	19.5	29565	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\Data\1S082213\1DFTPP11.D Vial: 1
Acq On : 22 Aug 2013 12:42 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:20:31 2013

Quant Method : C:\INSTARCH\Methods\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Mon Aug 19 17:25:37 2013
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M





TIC: 1DFTPP11.D\data.ms

(1) Pentachlorophenol

3.863min (-0.014) 53.76 ng

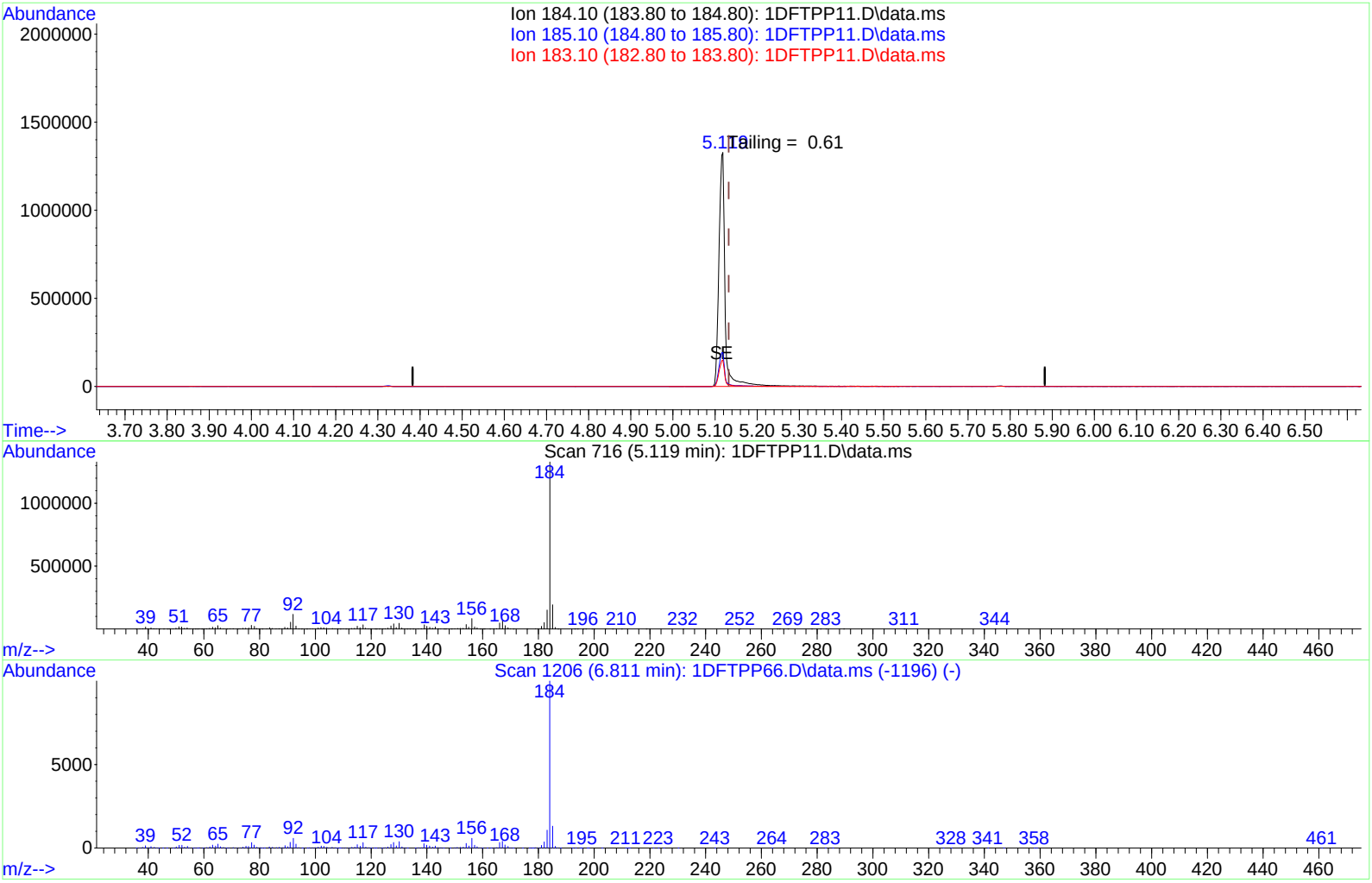
response 301931

Ion	Exp%	Act%
265.90	100	100
263.90	66.20	64.08
267.90	60.90	64.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\Data\1S082213\1DFTPP11.D Vial: 1
Acq On : 22 Aug 2013 12:42 Operator: RPN
Sample : DFTPP TUNE SVMS5691 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:20:31 2013

Quant Method : C:\INSTARCH\Methods\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Mon Aug 19 17:25:37 2013
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP11.D\data.ms

(3) Benzidine

5.119min (-0.014) 26.33 ng

response 1320327

Ion	Exp%	Act%
184.10	100	100
185.10	13.80	13.75
183.10	12.20	10.87
0.00	0.00	0.00

Data File	: 1DFTPP11.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\Data\1S082213\	Operator	: RPN
Date Acquired	: 8/22/2013 12:42	Instrument Name:	SVMS1
Sample Name	: DFTPP TUNE SVMS5691	Sample Multiplier:	1
Misc Info	: SVMS1,25 ug DFTPP		

Quant Method	: C:\INSTARCH\Methods\1DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Mon Aug 19 17:25:37 2013

Compound	R.T.	QIon	Response
1) Pentachlorophenol	3.86	266	301931
2) DFTPP	4.32	198	223213
3) Benzidine	5.12	184	1320327
4) DDE	5.27	246	466
5) DDD	5.54	235	4616
6) DDT	5.78	235	564941

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 0.89\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082213\1CCV12.D Vial: 2
Acq On : 22 Aug 2013 12:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:11:41 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	91	0.00
2	CT	Ntrsdimeth	20.000	17.772	11.1	75	0.00
3	CT	Pyridine	20.000	18.540	7.3	81	0.00
4	S	SURR2Flphenol	50.000	48.702	2.6	79	0.00
5	CT	Aniline	20.000	19.096	4.5	82	0.00
6	CPT	bis2Clethletr	20.000	19.321	3.4	85	0.00
7	S	SURRPhenol-d5	50.000	46.510	7.0	80	0.00
8	CPT	Phenol	20.000	19.637	1.8	85	0.00
9	CPT	2-Cl-phenol	20.000	19.746	1.3	86	0.00
10	CT	13Diclbenz	20.000	18.673	6.6	83	0.00
11	CT	14Diclbenz	20.000	19.259	3.7	84	0.00
12	CT	12Diclbenz	20.000	19.526	2.4	85	0.00
13	CT	Benzyl alcoho	20.000	17.067	14.7	69	0.00
14	CPT	bis2clispreth	20.000	18.977	5.1	85	0.00
15	CPT	2Methylphenol	20.000	19.184	4.1	87	0.00
16	CT	Ntrspyrrol	20.000	19.504	2.5	80	0.00
17	CPT	Acetophenone	20.000	18.992	5.0	80	0.00
18	CPT	Hexaclethane	20.000	18.574	7.1	82	0.00
19	CPT	N-Ntrsdinprop	20.000	18.081	9.6	78	0.00
20	CPT	3&4Methylphenol	20.000	18.779	6.1	82	0.00
21	I	Naphthalened8	20.000	20.000	0.0	91	0.00
22	S	SURRNitrbenzened5	100.000	84.586	15.4	72	0.00
23	CPT	Nitrobenzene	20.000	16.628	16.9	72	0.00
24	CPT	Isophorone	20.000	17.840	10.8	78	0.00
25	CPT	2-Nitrophenol	20.000	19.190	4.0	80	0.00
26	CPT	24Dimthpheno	20.000	19.827	0.9	85	0.00
27	CPT	bis2clethoxym	20.000	18.593	7.0	78	0.00
28	CPT	24Diclphenol	20.000	19.050	4.7	80	0.00
29	CT	124Triclbenz	20.000	18.480	7.6	79	0.00
30	CT	Benzoic acid	20.000	22.324	-11.6	89	0.00
31	CPT	Naphthalene	20.000	20.778	-3.9	90	0.00
32	CPT	4-Cl-aniline	20.000	18.787	6.1	80	0.00
33	CT	26Diclphenol	20.000	18.650	6.8	80	0.00
34	CT	Hexaclprop	20.000	19.497	2.5	85	0.00
35	CPT	Hexaclbutdien	20.000	20.899	-4.5	92	0.00
36	CPT	4Cl3methylphe	20.000	16.564	17.2	69	0.00
37	CPT	2Methylnaphth	20.000	17.527	12.4	75	0.00
38	CT	1Methylnaphth	20.000	17.393	13.0	75	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	89	0.00
40	CPT	Hxclcycpentdi	20.000	21.654	-8.3	82	0.00
41	CT	1245Tetrclbenz	20.000	19.174	4.1	83	0.00
42	CPT	246Triclpheno	20.000	20.000	0.0	83	0.00
43	CPT	245Triclpheno	20.000	20.253	-1.3	81	0.00
44	S	SURR2Flbiphenyl	100.000	87.253	12.7	74	0.00
45	CPT	2Clnaphthalen	20.000	19.136	4.3	80	0.00
46	CPT	2Nitroaniline	20.000	18.682	6.6	75	0.00
47	CPT	Acnaphthylene	20.000	20.641	-3.2	88	0.00
48	CPT	Dimethylphtha	20.000	17.942	10.3	77	0.00
49	CPT	26Dinitrotolu	20.000	19.126	4.4	80	0.00
50	CPT	Acenaphthene	20.000	19.935	0.3	84	0.00
51	CPT	3Nitroaniline	20.000	20.738	-3.7	83	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082213\1CCV12.D Vial: 2
Acq On : 22 Aug 2013 12:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:11:41 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	20.000	19.083	4.6	84	0.00
53	CPT	Dibenzofuran	20.000	19.071	4.6	83	0.00
54	CPT	24Dinitrotolu	20.000	19.357	3.2	77	0.00
55	CPT	4-Nitrophenol	20.000	20.537	-2.7	81	0.00
56	CT	2,3,5,6-Tetrachlorop	20.000	21.551	-7.8	85	0.00
57	CPT	2,3,4,6-Tetrachlorop	20.000	18.952	5.2	77	0.00
58	CPT	Fluorene	20.000	20.413	-2.1	86	0.00
59	CPT	4Clphlphlethr	20.000	19.740	1.3	84	0.00
60	CPT	Diethylphthal	20.000	18.732	6.3	80	0.00
61	CPT	4Nitroaniline	20.000	21.456	-7.3	86	0.00
62	S	SURR246Tribrphenl	50.000	48.322	3.4	80	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	93	0.00
64	CPT	46Dinit2mylph	20.000	19.501	2.5	84	0.00
65	CPT	Ntrsdiphlam&Diphlam	40.000	37.853	5.4	85	0.00
66	CT	Azobenz&12Diphlhyd	40.000	36.015	10.0	84	0.00
67	CPT	4Brphlphlethr	20.000	18.491	7.5	84	0.00
68	CPT	Hexaclbenzene	20.000	18.595	7.0	84	0.00
69	CPT	Pentaclphenol	20.000	22.386	-11.9	96	0.00
70	CPT	Phenanthrene	20.000	18.657	6.7	88	0.00
71	CPT	Anthracene	20.000	18.138	9.3	85	0.00
72	CPT	Carbazole	20.000	17.362	13.2	84	0.00
73	CPT	Dinbtylphthal	20.000	17.287	13.6	76	0.00
74	CPT	Fluoranthene	20.000	17.651	11.7	80	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	94	0.00
76	CT	Benzidine	20.000	20.850	-4.3	120	0.00
77	CPT	Pyrene	20.000	20.218	-1.1	90	0.00
78	S	SURRTerphenyl-d14	100.000	98.856	1.1	88	0.00
79	CPT	Btylbzylphth	20.000	19.129	4.4	83	0.00
80	TM	bis2Ethlhxlad	20.000	17.936	10.3	77	0.00
81	CPT	33Diclbnzidin	20.000	19.327	3.4	90	0.00
82	CPT	B[a]anthracen	20.000	18.988	5.1	85	0.00
83	CPT	Chrysene	20.000	20.199	-1.0	90	0.00
84	CPT	bis2Ethlhxlph	20.000	19.998	0.0	86	0.00
85	CPT	Dinoctylphthl	20.000	19.490	2.6	81	0.00
86	I	Perylene-d12	20.000	20.000	0.0	91	0.00
87	CPT	B[b]fluoranth	20.000	18.365	8.2	81	0.00
88	CPT	B[k]fluoranth	20.000	19.114	4.4	81	0.00
89	CPT	Benz[a]pyrene	20.000	18.368	8.2	81	0.00
90	CPT	Indeno-pyrene	20.000	19.792	1.0	85	0.00
91	CPT	Dib[ah]anthr	20.000	20.770	-3.8	86	0.00
92	CPT	B[ghi]perylen	20.000	19.534	2.3	84	0.00

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

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082213\1CCV12.D Vial: 2
Acq On : 22 Aug 2013 12:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:11:41 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	91	0.00
2	CT	Ntrsdimeth	0.728	0.647	11.1	75	0.00
3	CT	Pyridine	1.366	1.267	7.2	81	0.00
4	S	SURR2Flphenol	0.545	0.531	2.6	79	0.00
5	CT	Aniline	1.789	1.709	4.5	82	0.00
6	CPT	bis2Clethletr	1.210	1.169	3.4	85	0.00
7	S	SURRPhenol-d5	0.582	0.541	7.0	80	0.00
8	CPT	Phenol	1.707	1.676	1.8	85	0.00
9	CPT	2-Cl-phenol	1.455	1.436	1.3	86	0.00
10	CT	13Diclbenz	1.696	1.583	6.7	83	0.00
11	CT	14Diclbenz	1.604	1.545	3.7	84	0.00
12	CT	12Diclbenz	1.588	1.551	2.3	85	0.00
13	CT	Benzyl alcoho	0.701	0.598	14.7	69	0.00
14	CPT	bis2clispreth	2.036	1.932	5.1	85	0.00
15	CPT	2Methylphenol	0.968	0.928	4.1	87	0.00
16	CT	Ntrspyrrol	0.521	0.508	2.5	80	0.00
17	CPT	Acetophenone	1.556	1.477	5.1	80	0.00
18	CPT	Hexaclethane	0.605	0.561	7.3	82	0.00
19	CPT	N-Ntrsdinprop	0.706	0.638	9.6	78	0.00
20	CPT	3&4Methylphenol	1.167	1.096	6.1	82	0.00
21	I	Naphthalened8	1.000	1.000	0.0	91	0.00
22	S	SURRNitrbenzened5	0.058	0.049	15.5	72	0.00
23	CPT	Nitrobenzene	0.282	0.235	16.7	72	0.00
24	CPT	Isophorone	0.540	0.481	10.9	78	0.00
25	CPT	2-Nitrophenol	0.199	0.191	4.0	80	0.00
26	CPT	24Dimthpheno	0.279	0.277	0.7	85	0.00
27	CPT	bis2clethoxym	0.380	0.353	7.1	78	0.00
28	CPT	24Diclphenol	0.316	0.301	4.7	80	0.00
29	CT	124Triclbenz	0.355	0.328	7.6	79	0.00
30	CT	Benzoic acid	0.156	0.174	-11.5	89	0.00
31	CPT	Naphthalene	0.962	1.000	-4.0	90	0.00
32	CPT	4-Cl-aniline	0.406	0.382	5.9	80	0.00
33	CT	26Diclphenol	0.258	0.240	7.0	80	0.00
34	CT	Hexaclprop	0.213	0.208	2.3	85	0.00
35	CPT	Hexaclbutdien	0.189	0.197	-4.2	92	0.00
36	CPT	4Cl3methylphe	0.351	0.291	17.1	69	0.00
37	CPT	2Methylnaphth	0.976	0.855	12.4	75	0.00
38	CT	1Methylnaphth	0.865	0.752	13.1	75	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	89	0.00
40	CPT	Hxclcycpentdi	0.292	0.317	-8.6	82	0.00
41	CT	1245Tetrclbenz	0.615	0.590	4.1	83	0.00
42	CPT	246Triclpheno	0.393	0.393	0.0	83	0.00
43	CPT	245Triclpheno	0.430	0.436	-1.4	81	0.00
44	S	SURR2Flbiphenyl	0.263	0.229	12.9	74	0.00
45	CPT	2Clnaphthalen	1.187	1.135	4.4	80	0.00
46	CPT	2Nitroaniline	0.234	0.219	6.4	75	0.00
47	CPT	Acnaphthylene	1.726	1.713	0.8	88	0.00
48	CPT	Dimethylphtha	1.163	1.037	10.8	77	0.00
49	CPT	26Dinitrotolu	0.292	0.279	4.5	80	0.00
50	CPT	Acenaphthene	0.956	0.940	1.7	84	0.00
51	CPT	3Nitroaniline	0.271	0.281	-3.7	83	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\1S082213\1CCV12.D Vial: 2
Acq On : 22 Aug 2013 12:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:11:41 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	0.166	0.175	-5.4	84	0.00
53	CPT	Dibenzofuran	1.528	1.457	4.6	83	0.00
54	CPT	24Dinitrotolu	0.366	0.355	3.0	77	0.00
55	CPT	4-Nitrophenol	0.208	0.214	-2.9	81	0.00
56	CT	2,3,5,6-Tetrachlorop	0.287	0.309	-7.7	85	0.00
57	CPT	2,3,4,6-Tetrachlorop	0.342	0.324	5.3	77	0.00
58	CPT	Fluorene	1.118	1.114	0.4	86	0.00
59	CPT	4Clphlphlethr	0.568	0.558	1.8	84	0.00
60	CPT	Diethylphthal	1.130	1.053	6.8	80	0.00
61	CPT	4Nitroaniline	0.269	0.289	-7.4	86	0.00
62	S	SURR246Tribrphenl	0.066	0.064	3.0	80	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	93	0.00
64	CPT	46Dinit2mylph	0.137	0.134	2.2	84	0.00
65	CPT	Ntrsdiphlam&Diphlam	0.420	0.390	7.1	85	0.00
66	CT	Azobenz&12Diphlhyd	0.149	0.132	11.4	84	0.00
67	CPT	4Brphlphlethr	0.223	0.207	7.2	84	0.00
68	CPT	Hexaclbenzene	0.235	0.219	6.8	84	0.00
69	CPT	Pentaclphenol	0.148	0.166	-12.2	96	0.00
70	CPT	Phenanthrene	1.025	0.956	6.7	88	0.00
71	CPT	Anthracene	1.064	0.965	9.3	85	0.00
72	CPT	Carbazole	1.005	0.873	13.1	84	0.00
73	CPT	Dinbtylphthal	1.367	1.181	13.6	76	0.00
74	CPT	Fluoranthene	1.205	1.063	11.8	80	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	94	0.00
76	CT	Benzidine	0.737	0.768	-4.2	120	0.00
77	CPT	Pyrene	2.517	2.545	-1.1	90	0.00
78	S	SURRTerphenyl-d14	0.199	0.197	1.0	88	0.00
79	CPT	Btylbzylphth	0.705	0.674	4.4	83	0.00
80	TM	bis2Ethlhxlad	0.574	0.515	10.3	77	0.00
81	CPT	33Diclbnzidin	0.304	0.294	3.3	90	0.00
82	CPT	B[a]anthracen	1.136	1.078	5.1	85	0.00
83	CPT	Chrysene	1.054	1.064	-0.9	90	0.00
84	CPT	bis2Ethlhxlph	0.940	0.939	0.1	86	0.00
85	CPT	Dinoctylphthl	1.746	1.702	2.5	81	0.00
86	I	Perylene-d12	1.000	1.000	0.0	91	0.00
87	CPT	B[b]fluoranth	1.138	1.045	8.2	81	0.00
88	CPT	B[k]fluoranth	1.050	1.003	4.5	81	0.00
89	CPT	Benz[a]pyrene	1.112	1.022	8.1	81	0.00
90	CPT	Indeno-pyrene	1.223	1.211	1.0	85	0.00
91	CPT	Dib[ah]anthr	0.909	0.944	-3.9	86	0.00
92	CPT	B[ghi]perylen	1.093	1.067	2.4	84	0.00

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1CCV12.D Vial: 2
Acq On : 22 Aug 2013 12:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:11:41 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	143781	20.00	ug/mL	0.00
21) Naphthalened8	4.099	136	536332	20.00	ug/mL	0.00
39) Acenaphthened10	6.282	164	414568	20.00	ug/mL	0.00
63) Phenanthrd10	7.282	188	688549	20.00	ug/mL	0.00
75) Chrysene-d12	8.720	240	279446	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	293945	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.880	112	190876	48.70	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 48.70%			
7) SURRPhenol-d5	2.471	99	194441	46.51	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 46.51%			
22) SURRNitrbenzened5	3.270	82	131486	84.59	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 84.59%			
44) SURR2Flbiphenyl	5.699	172	475548	87.25	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.25%			
62) SURR246Tribrphenl	6.861	330	66292	48.32	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 48.32%			
78) SURRTerphenyl-d14	8.214	244	275486	98.86	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 98.86%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.292	74	93025	17.7715	ug/mL	100
3) Pyridine	1.292	79	182122	18.5402	ug/mL	97
5) Aniline	2.466	93	245657	19.0961	ug/mL	85
6) bis2Clethletr	2.537	93	168112	19.3211	ug/mL	92
8) Phenol	2.483	94	240962	19.6370	ug/mL	95
9) 2-Cl-phenol	2.551	128	206494	19.7460	ug/mL	97
10) 13Diclbenz	2.667	146	227624	18.6727	ug/mL	96
11) 14Diclbenz	2.735	146	222096	19.2588	ug/mL	99
12) 12Diclbenz	2.860	146	222951	19.5258	ug/mL	97
13) Benzyl alcoho	2.883	108	86010	17.0667	ug/mL	93
14) bis2clispreth	3.018	45	277803	18.9770	ug/mL	97
15) 2Methylphenol	3.011	107	133438	19.1841	ug/mL	93
16) Ntrspyrrol	3.119	100	73032	19.5043	ug/mL	99
17) Acetophenone	3.128	105	212378	18.9916	ug/mL	98
18) Hexaclethane	3.182	117	80724	18.5740	ug/mL	96
19) N-Ntrsdinprop	3.156	70	91752	18.0811	ug/mL	95
20) 3&4Methylphenol	3.187	107	157602	18.7792	ug/mL	96
23) Nitrobenzene	3.290	77	125792	16.6284	ug/mL	99
24) Isophorone	3.582	82	258203	17.8398	ug/mL	98
25) 2-Nitrophenol	3.653	139	102476	19.1901	ug/mL	99
26) 24Dimthpheno	3.795	122	148378	19.8272	ug/mL	96
27) bis2clethoxym	3.909	93	189502	18.5934	ug/mL	98
28) 24Diclphenol	3.969	162	161181	19.0502	ug/mL	94
29) 124Triclbenz	4.048	180	175734	18.4799	ug/mL	97
30) Benzoic acid	4.040	122	93466	22.3243	ug/mL	93
31) Naphthalene	4.122	128	536178	20.7780	ug/mL	98
32) 4-Cl-aniline	4.267	127	204682	18.7874	ug/mL	97
33) 26Diclphenol	4.261	162	128928	18.6498	ug/mL	96
34) Hexaclprop	4.250	213	111583	19.4970	ug/mL	100
35) Hexaclbutdien	4.338	225	105817	20.8987	ug/mL	95
36) 4Cl3methylphe	5.065	107	156021	16.5640	ug/mL	95
37) 2Methylnaphth	5.119	142	458794	17.5269	ug/mL	97
38) 1Methylnaphth	5.270	141	403512	17.3934	ug/mL	99
40) Hxclcycpentdi	5.395	237	131249	21.6536	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1CCV12.D Vial: 2
Acq On : 22 Aug 2013 12:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:11:41 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

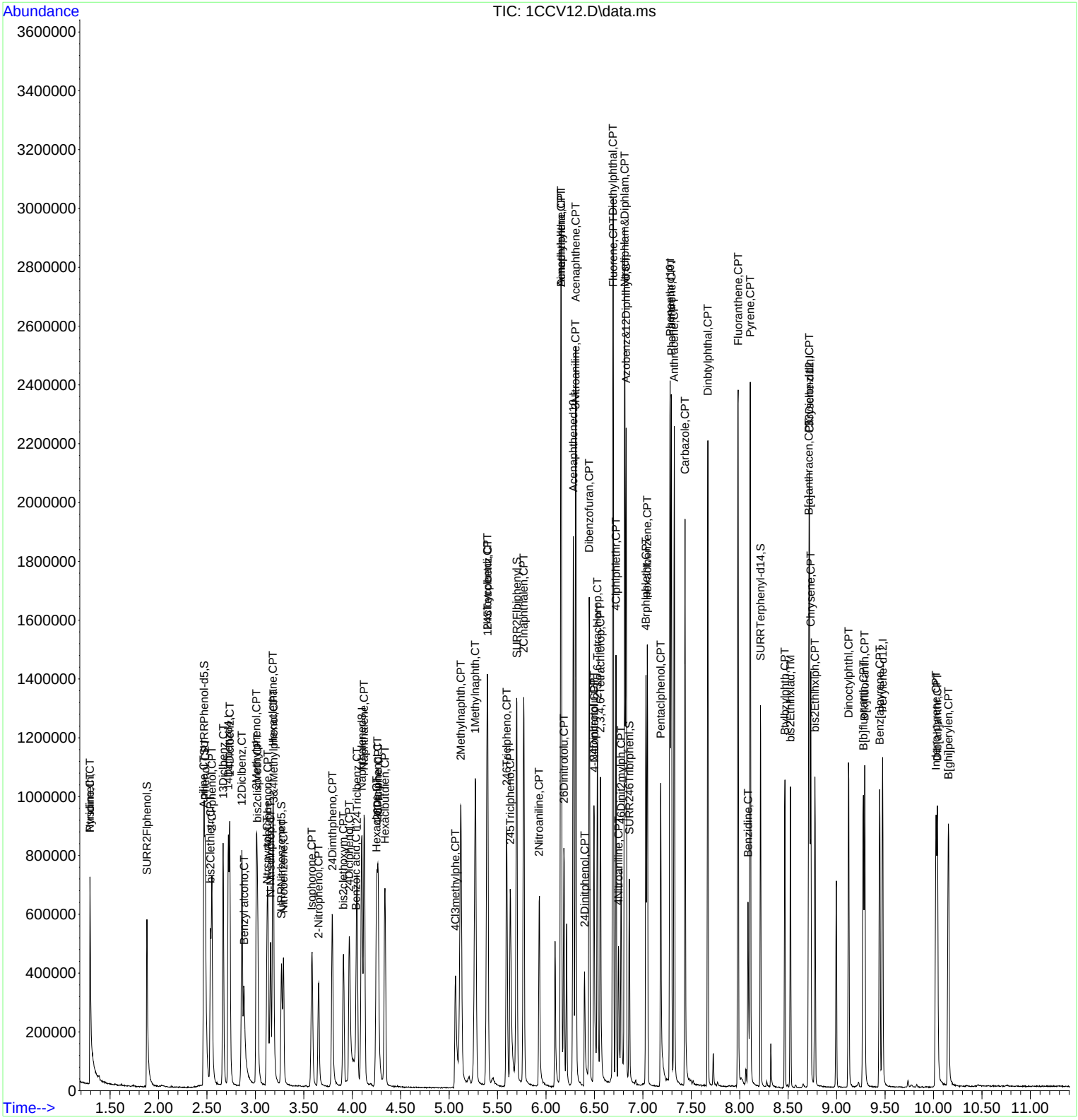
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.398	216	244500	19.1741 ug/mL	98
42) 246Triclpheno	5.594	196	163114	20.0002 ug/mL	97
43) 245Triclpheno	5.631	196	180599	20.2534 ug/mL	98
45) 2Clnaphthalen	5.770	162	470632	19.1356 ug/mL	99
46) 2Nitroaniline	5.929	65	90690	18.6824 ug/mL	98
47) Acnaphthylene	6.157	152	709955	20.6412 ug/mL	99
48) Dimethylphtha	6.157	163	429966	17.9417 ug/mL	98
49) 26Dinitrotolu	6.185	165	115771	19.1263 ug/mL	95
50) Acenaphthene	6.307	154	389762	19.9348 ug/mL	99
51) 3Nitroaniline	6.304	138	116686	20.7384 ug/mL	97
52) 24Dinitphenol	6.398	184	72710	19.0835 ug/mL	97
53) Dibenzofuran	6.446	168	604086	19.0708 ug/mL	100
54) 24Dinitrotolu	6.495	165	147026	19.3571 ug/mL	98
55) 4-Nitrophenol	6.498	139	88649	20.5371 ug/mL	95
56) 2,3,5,6-Tetrachlorop	6.532	232	128182	21.5509 ug/mL	97
57) 2,3,4,6-Tetrachlorop	6.563	232	134323	18.9519 ug/mL	97
58) Fluorene	6.694	166	461853	20.4127 ug/mL	99
59) 4Clphlphlethr	6.722	204	231306	19.7397 ug/mL	97
60) Diethylphthal	6.691	149	436467	18.7321 ug/mL	99
61) 4Nitroaniline	6.750	138	119750	21.4556 ug/mL	95
64) 46Dinit2mylph	6.776	198	92031	19.5010 ug/mL	97
65) Ntrsdiphlam&Diphlam	6.813	169	536685	37.8529 ug/mL	98
66) Azobenz&12Diphlhyd	6.827	182	181496	36.0155 ug/mL#	85
67) 4Brphlphlethr	7.032	248	142263	18.4911 ug/mL	96
68) Hexaclbenzene	7.046	284	150568	18.5947 ug/mL	99
69) Pentaclphenol	7.185	266	114118	22.3856 ug/mL	98
70) Phenanthrene	7.296	178	658182	18.6567 ug/mL	98
71) Anthracene	7.324	178	664701	18.1378 ug/mL	99
72) Carbazole	7.435	167	600931	17.3620 ug/mL	100
73) Dinbtylphthal	7.671	149	813249	17.2865 ug/mL	100
74) Fluoranthene	7.984	202	732026	17.6510 ug/mL	99
76) Benzidine	8.086	184	214640	20.8504 ug/mL	96
77) Pyrene	8.109	202	711143	20.2176 ug/mL	98
79) Btylbzylphth	8.467	149	188418	19.1290 ug/mL	97
80) bis2Ethlhxlad	8.523	129	143824	17.9356 ug/mL	99
81) 33Diclbnzidin	8.717	252	82144	19.3265 ug/mL	97
82) B[a]anthracen	8.714	228	301306	18.9878 ug/mL	98
83) Chrysene	8.734	228	297380	20.1989 ug/mL	99
84) bis2Ethlhxlph	8.776	149	262524	19.9984 ug/mL	98
85) Dinoctylphthl	9.123	149	475526	19.4897 ug/mL	99
87) B[b]fluoranth	9.276	252	307122	18.3646 ug/mL	99
88) B[k]fluoranth	9.291	252	294854	19.1137 ug/mL	98
89) Benz[a]pyrene	9.444	252	300283	18.3677 ug/mL	97
90) Indeno-pyrene	10.027	276	355896	19.7921 ug/mL	98
91) Dib[ah]anthr	10.041	278	277555	20.7698 ug/mL	97
92) B[ghi]perylen	10.154	276	313750	19.5339 ug/mL	98

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1CCV12.D Vial: 2
Acq On : 22 Aug 2013 12:57 Operator: RPN
Sample : ICAL 20ug/ml SVMS5746 Inst : SVMS1
Misc : 500uL+5ul IS S2805D Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:11:41 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



SEMI - VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MRL01.D Vial: 3
Acq On : 20 Aug 2013 13:21 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:57:39 2013

RPN
08/20/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.736	152	160499	20.00	ug/mL	-0.02
21) Naphthalened8	4.116	136	575459	20.00	ug/mL	-0.02
39) Acenaphthened10	6.293	164	454777	20.00	ug/mL	-0.01
63) Phenanthrd10	7.290	188	686828	20.00	ug/mL	-0.01
75) Chrysene-d12	8.728	240	327447	20.00	ug/mL	-0.01
86) Perylene-d12	9.490	264	305328	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	7206	1.65	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 1.65%#			
7) SURRPhenol-d5	2.488	99	11889	2.55	%REC	-0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 2.55%#			
22) SURRNitrbenzened5	3.287	82	8226	4.93	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 4.93%#			
44) SURR2Flbiphenyl	5.713	172	34585	5.78	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 5.78%#			
62) SURR246Tribrphenl	6.870	330	3656	2.43	%REC	-0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 2.43%#			
78) SURRTerphenyl-d14	8.225	244	18855	5.77	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 5.77%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.318	74	3936	0.6736	ug/mL	97
3) Pyridine	1.352	79	8520	0.7770	ug/mL	98
5) Aniline	2.488	93	13335	0.9286	ug/mL#	1
6) bis2Clethletr	2.551	93	10971	1.1296	ug/mL	89
8) Phenol	2.497	94	63861	4.6622	ug/mL	97
9) 2-Cl-phenol	2.565	128	59589	5.1047	ug/mL	97
10) 13Diclbenz	2.682	146	14555	1.0696	ug/mL	81
11) 14Diclbenz	2.750	146	14189	1.1022	ug/mL	94
12) 12Diclbenz	2.883	146	13695	1.0745	ug/mL	86
13) Benzyl alcoho	2.915	108	4222	0.7505	ug/mL	83
14) bis2clispreth	3.038	45	18039	1.1039	ug/mL#	54
15) 2Methylphenol	3.028	107	38056	4.9013	ug/mL	91
16) Ntrspyrrol	3.133	100	3561	0.8520	ug/mL	92
17) Acetophenone	3.142	105	10457	0.8377	ug/mL	96
18) Hexaclethane	3.196	117	5398	1.1127	ug/mL	90
19) N-Ntrsdinprop	3.173	70	5860	1.0345	ug/mL	80
20) 3&4Methylphenol	3.199	107	88299	9.4254	ug/mL	95
23) Nitrobenzene	3.309	77	7265	0.8951	ug/mL	96
24) Isophorone	3.596	82	15142	0.9751	ug/mL	99
25) 2-Nitrophenol	3.673	139	27782	4.8488	ug/mL	93
26) 24Dimthpheno	3.810	122	42917	5.3449	ug/mL	92
27) bis2clethoxym	3.926	93	11039	1.0095	ug/mL	93
28) 24Diclphenol	3.991	162	44525	4.9047	ug/mL	97
29) 124Triclbenz	4.071	180	12244	1.2000	ug/mL	97
30) Benzoic acid	3.989	122	17014	3.7875	ug/mL#	71
31) Naphthalene	4.142	128	32071	1.1583	ug/mL	97
32) 4-Cl-aniline	4.295	127	10912	0.9335	ug/mL	95
33) 26Diclphenol	4.278	162	45089	6.0788	ug/mL	92
34) Hexaclprop	4.273	213	6621	1.0782	ug/mL	91
35) Hexaclbutdien	4.358	225	6454	1.1880	ug/mL	91
36) 4Cl3methylphe	5.094	107	45015	4.4541	ug/mL	91
37) 2Methylnaphth	5.097	142	74355	2.6474	ug/mL#	16
38) 1Methylnaphth	5.296	141	27072	1.0876	ug/mL	88
40) Hxclcycpentdi	5.415	237	4961	0.7461	ug/mL	87

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MRL01.D Vial: 3
Acq On : 20 Aug 2013 13:21 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:57:39 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

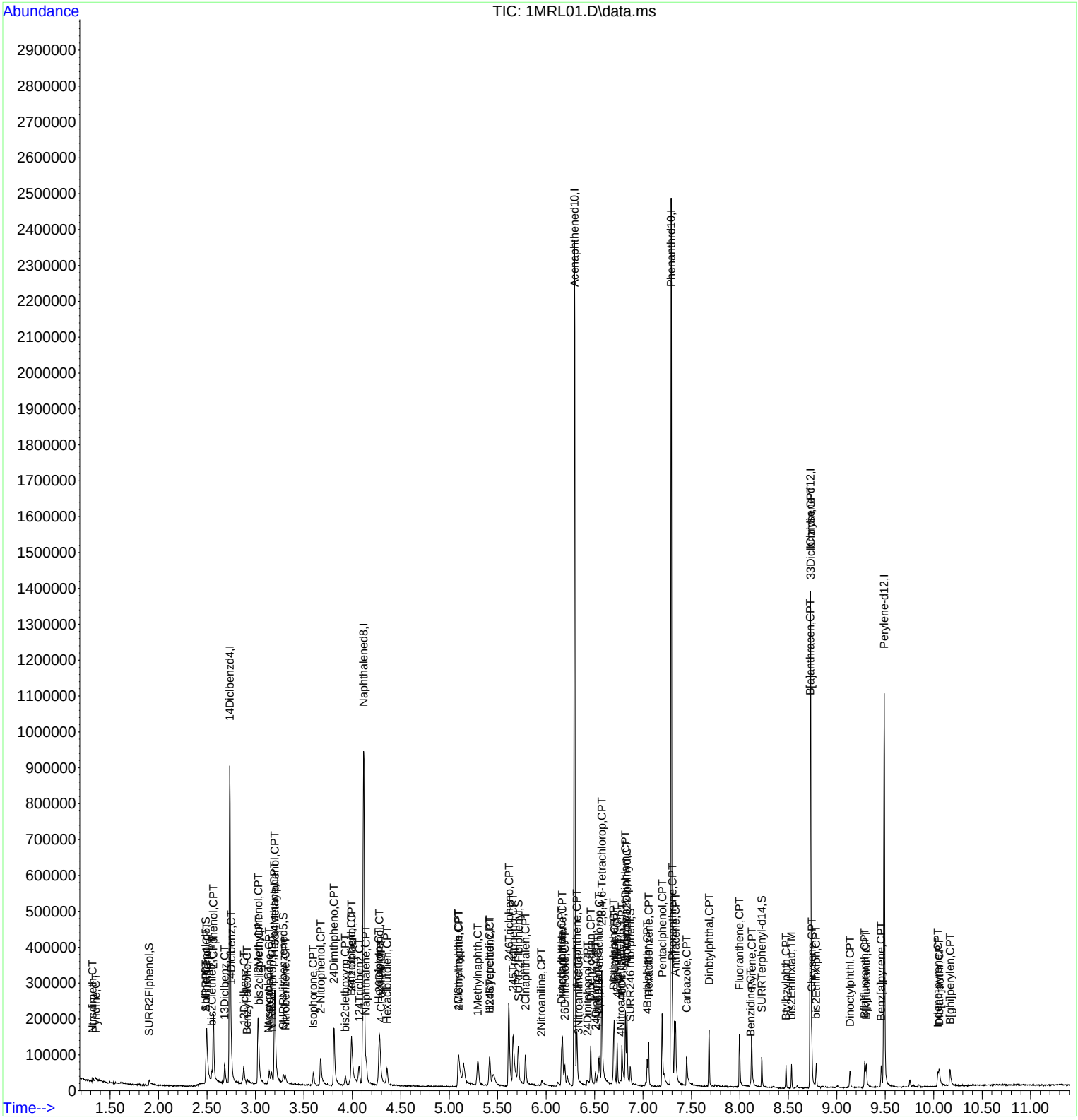
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.418	216	16523	1.1812	ug/mL	95
42) 246Triclpheno	5.617	196	45755	5.1142	ug/mL	91
43) 245Triclpheno	5.659	196	49998	5.1113	ug/mL	98
45) 2Clnaphthalen	5.787	162	32908	1.2197	ug/mL	95
46) 2Nitroaniline	5.952	65	4919	0.9237	ug/mL#	68
47) Acnaphthylene	6.168	152	51334	0.9000	ug/mL	97
48) Dimethylphtha	6.159	163	36514	0.9684	ug/mL	99
49) 26Dinitrotolu	6.194	165	7390	1.1129	ug/mL	80
50) Acenaphthene	6.319	154	27037	0.9366	ug/mL	97
51) 3Nitroaniline	6.336	138	5661	0.9172	ug/mL	74
52) 24Dinitphenol	6.427	184	9155	4.5734	ug/mL	85
53) Dibenzofuran	6.461	168	41022	1.1805	ug/mL	92
54) 24Dinitrotolu	6.512	165	7848	0.9419	ug/mL	81
55) 4-Nitrophenol	6.535	139	16676	3.5217	ug/mL	80
56) 2,3,5,6-Tetrachlorop	6.546	232	6908	1.0587	ug/mL	92
57) 2,3,4,6-Tetrachlorop	6.574	232	39243	5.0473	ug/mL	93
58) Fluorene	6.705	166	34186	0.9536	ug/mL	96
59) 4Clphlphlethr	6.733	204	16450	0.9774	ug/mL	97
60) Diethylphthal	6.696	149	35910	1.0063	ug/mL	97
61) 4Nitroaniline	6.773	138	6068	0.9911	ug/mL	80
64) 46Dinit2mylph	6.782	198	21445	4.5555	ug/mL	88
65) Ntrsdiphlam&Diphlam	6.819	169	42637	2.0208	ug/mL	94
66) Azobenz&12Diphlhyd	6.833	182	14984	2.0385	ug/mL	93
67) 4Brphlphlethr	7.043	248	9414	1.2267	ug/mL	91
68) Hexaclbenzene	7.057	284	11425	1.4145	ug/mL	95
69) Pentaclphenol	7.199	266	25300	4.9753	ug/mL	94
70) Phenanthrene	7.305	178	44720	1.2708	ug/mL	95
71) Anthracene	7.336	178	47287	1.2936	ug/mL	98
72) Carbazole	7.449	167	43479	1.2593	ug/mL	97
73) Dinbtylphthal	7.682	149	60946	1.2987	ug/mL	99
74) Fluoranthene	7.995	202	51391	1.2423	ug/mL	100
76) Benzidine	8.112	184	10419	0.8637	ug/mL	88
77) Pyrene	8.123	202	50370	1.2221	ug/mL	96
79) Btylbzylphth	8.475	149	11428	0.9901	ug/mL	87
80) bis2Ethlhxlad	8.532	129	8572	0.9123	ug/mL#	88
81) 33Diclbnzidin	8.731	252	6328	1.2706	ug/mL	82
82) B[a]anthracen	8.725	228	19503	1.0489	ug/mL	95
83) Chrysene	8.742	228	19316	1.1197	ug/mL	97
84) bis2Ethlhxlph	8.788	149	14634	0.9514	ug/mL	95
85) Dinoctylphthl	9.137	149	21537	0.7533	ug/mL	98
87) B[b]fluoranth	9.288	252	15506	0.8926	ug/mL	99
88) B[k]fluoranth	9.305	252	21608	1.3485	ug/mL	96
89) Benz[a]pyrene	9.458	252	19700	1.1601	ug/mL	93
90) Indeno-pyrene	10.044	276	17669	0.9460	ug/mL	93
91) Dib[ah]anthr	10.058	278	14990	1.0799	ug/mL	97
92) B[ghi]perylen	10.169	276	18785	1.1259	ug/mL	95

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MRL01.D Vial: 3
Acq On : 20 Aug 2013 13:21 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:57:39 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MDL01.D Vial: 4
Acq On : 20 Aug 2013 13:39 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:51:12 2013

RPN
08/30/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.735	152	160265	20.00	ug/mL	-0.02
21) Naphthalened8	4.116	136	579505	20.00	ug/mL	-0.02
39) Acenaphthened10	6.296	164	470032	20.00	ug/mL	-0.01
63) Phenanthrd10	7.293	188	701833	20.00	ug/mL	0.00
75) Chrysene-d12	8.728	240	306265	20.00	ug/mL	-0.01
86) Perylene-d12	9.487	264	308778	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.920	112	2350	0.54	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 0.54%#			
7) SURRPhenol-d5	2.494	99	4978	1.07	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 1.07%#			
22) SURRNitrbenzened5	3.292	82	3931	2.34	%REC	-0.01
Spiked Amount 100.000	Range 40 - 110		Recovery = 2.34%#			
44) SURR2Flbiphenyl	5.716	172	17727	2.87	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 2.87%#			
62) SURR246Tribrphenl	6.875	330	1979	1.27	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 1.27%#			
78) SURRTerphenyl-d14	8.228	244	9438	3.09	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 3.09%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.329	74	1898	0.3253	ug/mL#	65
3) Pyridine	1.371	79	2631	0.2403	ug/mL	96
5) Aniline	2.491	93	5662	0.3949	ug/mL#	1
6) bis2Clethletr	2.548	93	4853	0.5004	ug/mL#	78
8) Phenol	2.499	94	28344	2.0723	ug/mL	92
9) 2-Cl-phenol	2.568	128	27043	2.3200	ug/mL	95
10) 13Diclbenz	2.684	146	6933	0.5102	ug/mL	87
11) 14Diclbenz	2.752	146	6715	0.5224	ug/mL	91
12) 12Diclbenz	2.880	146	6430	0.5052	ug/mL	97
13) Benzyl alcoho	2.940	108	1473	0.2622	ug/mL#	63
14) bis2clispreth	3.038	45	9132	0.5597	ug/mL#	74
15) 2Methylphenol	3.031	107	18749	2.4183	ug/mL	87
16) Ntrspyrrol	3.136	100	1507	0.3611	ug/mL	89
17) Acetophenone	3.144	105	5267	0.4226	ug/mL	68
18) Hexaclethane	3.196	117	2845	0.5873	ug/mL	87
19) N-Ntrsdinprop	3.167	70	2621	0.4634	ug/mL	97
20) 3&4Methylphenol	3.204	107	44107	4.7150	ug/mL	93
23) Nitrobenzene	3.315	77	3554	0.4348	ug/mL	76
24) Isophorone	3.599	82	8138	0.5204	ug/mL	92
25) 2-Nitrophenol	3.676	139	12604	2.1844	ug/mL	90
26) 24Dimthpheno	3.812	122	21497	2.6586	ug/mL	87
27) bis2clethoxym	3.934	93	5137	0.4665	ug/mL	98
28) 24Diclphenol	3.997	162	21841	2.3891	ug/mL	98
29) 124Triclbenz	4.068	180	6064	0.5902	ug/mL	91
30) Benzoic acid	4.082	122	1044	0.2308	ug/mL#	39
31) Naphthalene	4.145	128	15444	0.5539	ug/mL	94
32) 4-Cl-aniline	4.312	127	5143	0.4369	ug/mL	91
33) 26Diclphenol	4.284	162	20703	2.7716	ug/mL	98
34) Hexaclprop	4.272	213	2432	0.3933	ug/mL	73
35) Hexaclbutdien	4.358	225	2861	0.5229	ug/mL	84
36) 4Cl3methylphe	5.102	107	21631	2.1254	ug/mL	94
37) 2Methylnaphth	5.150	142	18820	0.6654	ug/mL	76
38) 1Methylnaphth	5.298	141	14767	0.5891	ug/mL	85
40) Hxclcycpentdi	5.409	237	1567	0.2280	ug/mL	82

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MDL01.D Vial: 4
Acq On : 20 Aug 2013 13:39 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:51:12 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

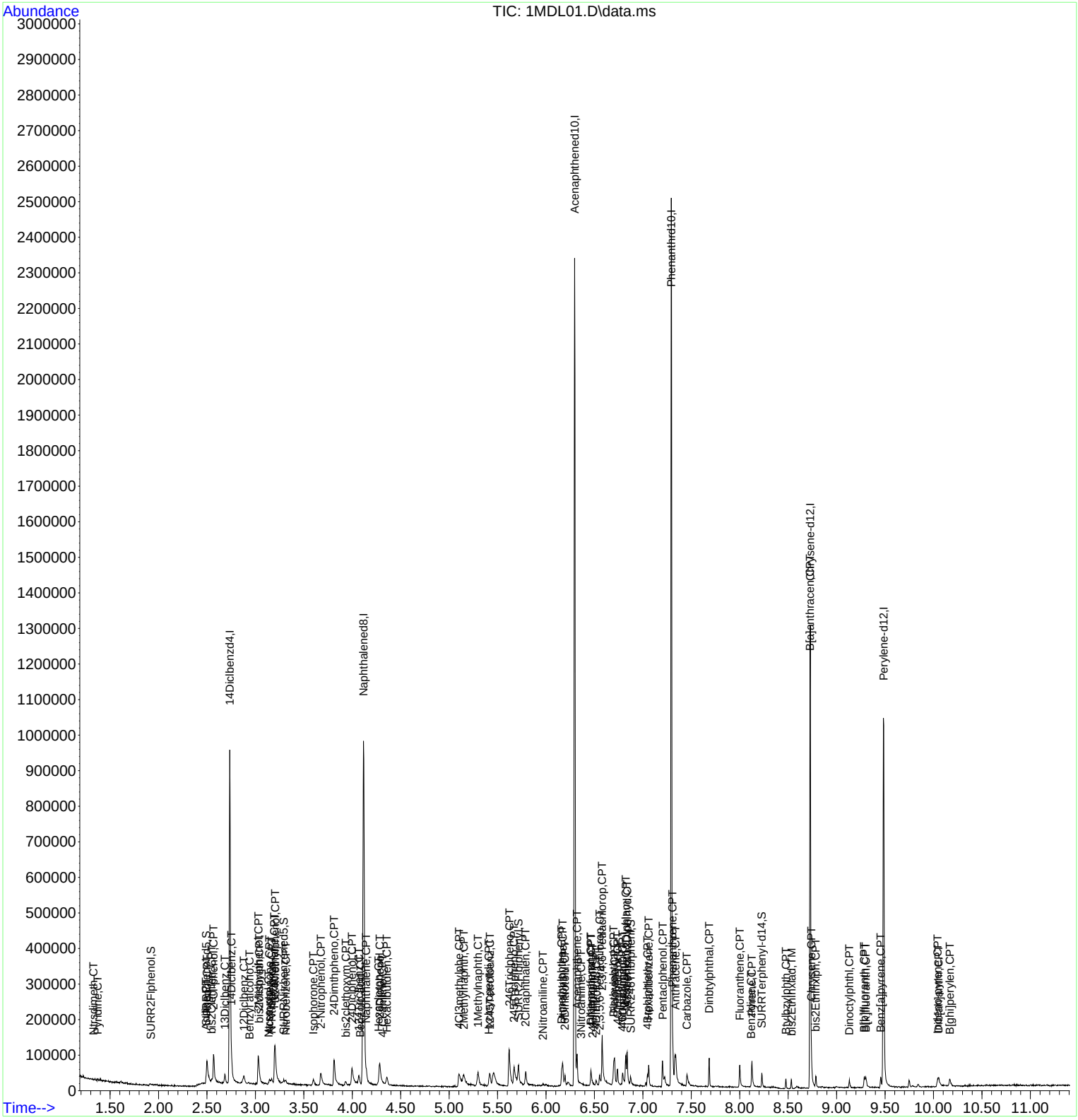
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.420	216	7601	0.5257 ug/mL	89
42) 246Triclpheno	5.622	196	22290	2.4106 ug/mL	90
43) 245Triclpheno	5.670	196	21345	2.1113 ug/mL	93
45) 2Clnaphthalen	5.790	162	15256	0.5471 ug/mL	92
46) 2Nitroaniline	5.969	65	765	0.1390 ug/mL#	64
47) Acnaphthylene	6.173	152	24951	0.2636 ug/mL	97
48) Dimethylphtha	6.162	163	18536	0.3413 ug/mL	96
49) 26Dinitrotolu	6.196	165	2813	0.4099 ug/mL	80
50) Acenaphthene	6.321	154	13760	0.3689 ug/mL	89
51) 3Nitroaniline	6.364	138	2462	0.3859 ug/mL#	47
52) 24Dinitphenol	6.483	184	1803	3.1394 ug/mL#	55
53) Dibenzofuran	6.463	168	20279	0.5647 ug/mL	99
54) 24Dinitrotolu	6.517	165	3573	0.4149 ug/mL	98
55) 4-Nitrophenol	6.466	139	6751	1.3794 ug/mL#	26
56) 2,3,5,6-Tetrachlorop	6.554	232	2903	0.4305 ug/mL	85
57) 2,3,4,6-Tetrachlorop	6.580	232	17243	2.1458 ug/mL	98
58) Fluorene	6.708	166	17842	0.3656 ug/mL	98
59) 4Clphlphlethr	6.739	204	8193	0.3963 ug/mL	94
60) Diethylphthal	6.699	149	17538	0.3588 ug/mL	95
61) 4Nitroaniline	6.787	138	2087	0.3298 ug/mL#	73
64) 46Dinit2mylph	6.790	198	8967	1.8641 ug/mL	77
65) Ntrsdiphlam&Diphlam	6.824	169	21691	0.7032 ug/mL	99
66) Azobenz&12Diphlhyd	6.838	182	7539	0.6798 ug/mL#	64
67) 4Brphlphlethr	7.049	248	4502	0.5741 ug/mL	92
68) Hexaclbenzene	7.060	284	4993	0.6049 ug/mL	94
69) Pentaclphenol	7.205	266	10175	1.9582 ug/mL	98
70) Phenanthrene	7.307	178	22394	0.6228 ug/mL	97
71) Anthracene	7.338	178	24475	0.6552 ug/mL	93
72) Carbazole	7.455	167	21166	0.5999 ug/mL	95
73) Dinbtylphthal	7.685	149	33388	0.6963 ug/mL	99
74) Fluoranthene	8.000	202	24702	0.5844 ug/mL	94
76) Benzidine	8.117	184	4722	0.4185 ug/mL	73
77) Pyrene	8.125	202	24284	0.6299 ug/mL	98
79) Btylbzylphth	8.478	149	4767	0.4416 ug/mL	93
80) bis2Ethlhxlad	8.535	129	3691	0.4200 ug/mL#	86
81) 33Diclbnzidin	0.000		0	N.D.	
82) B[a]anthracen	8.725	228	8999	0.5174 ug/mL	93
83) Chrysene	8.739	228	10288	0.6376 ug/mL	98
84) bis2Ethlhxlph	8.785	149	6422	0.4464 ug/mL	99
85) Dinoctylphthl	9.131	149	9028	0.3376 ug/mL	89
87) B[b]fluoranth	9.285	252	7457	0.4245 ug/mL	99
88) B[k]fluoranth	9.302	252	8500	0.5245 ug/mL	90
89) Benz[a]pyrene	9.455	252	9381	0.5463 ug/mL	96
90) Indeno-pyrene	10.043	276	8939	0.4732 ug/mL	72
91) Dib[ah]anthr	10.052	278	6404	0.4562 ug/mL	86
92) B[ghi]perylen	10.168	276	9154	0.5425 ug/mL	65

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MDL01.D Vial: 4
Acq On : 20 Aug 2013 13:39 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 13:51:12 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MBW01.D Vial: 5
Acq On : 20 Aug 2013 13:57 Operator: RPN
Sample : 96903,MBW, Inst : SVMS1
Misc : 339715,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 16:55:58 2013

RPN
08/20/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 20 16:55:54 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

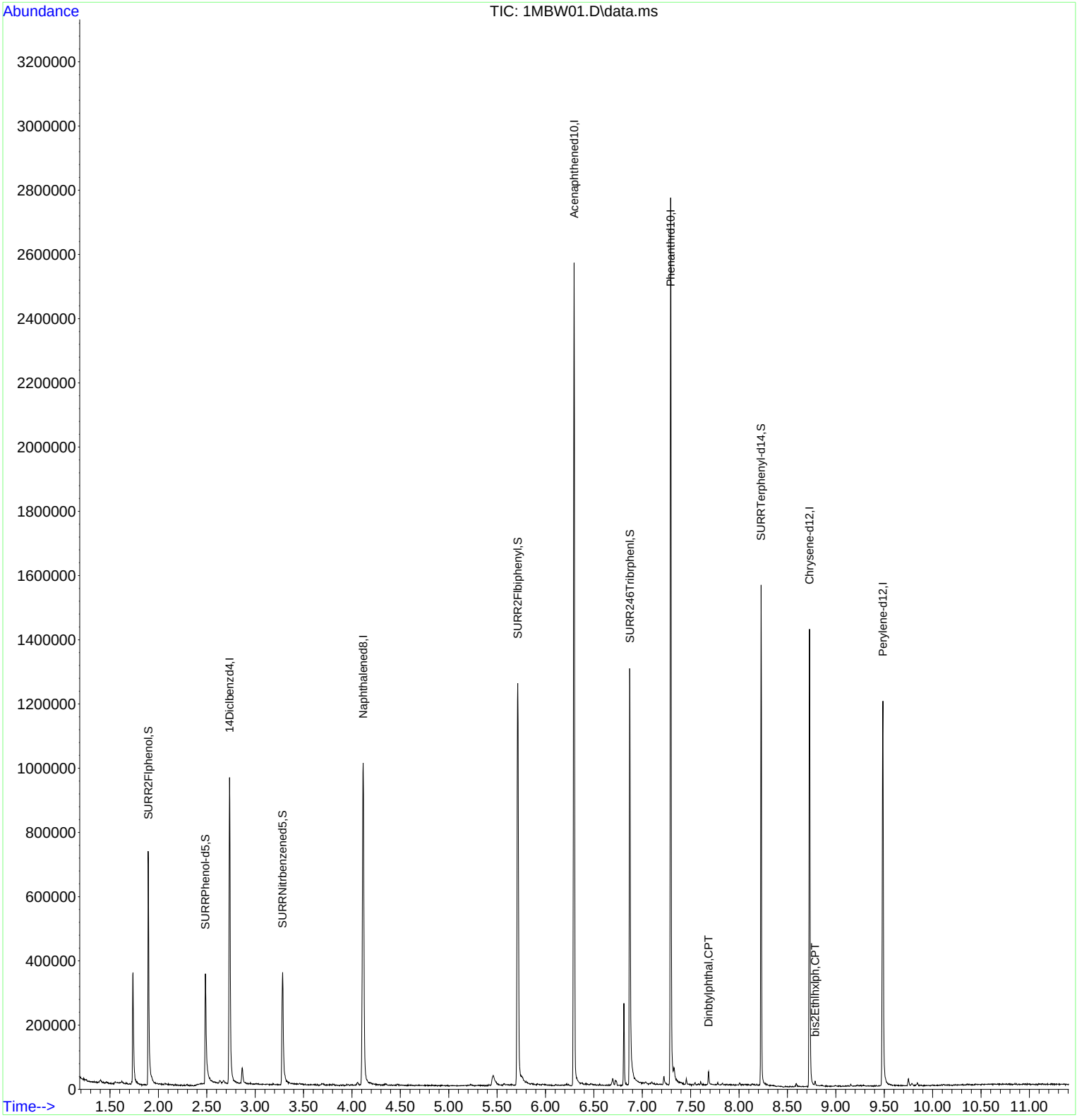
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.735	152	163991	20.00	ug/mL	-0.02
21) Naphthalened8	4.116	136	627214	20.00	ug/mL	-0.02
39) Acenaphthened10	6.296	164	521735	20.00	ug/mL	-0.01
63) Phenanthrd10	7.293	188	816070	20.00	ug/mL	0.00
75) Chrysene-d12	8.728	240	367109	20.00	ug/mL	-0.01
86) Perylene-d12	9.487	264	353733	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.897	112	197879	44.27	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 44.27%			
7) SURRPhenol-d5	2.485	99	145095	30.43	%REC	-0.02
Spiked Amount 100.000	Range 10 - 115		Recovery = 30.43%			
22) SURRNitrbenzened5	3.284	82	131531	72.35	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 72.35%			
44) SUR2Flbiphenyl	5.713	172	494681	72.12	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 72.12%			
62) SURR246Tribrphenl	6.873	330	140802	81.55	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 81.55%			
78) SURRTerphenyl-d14	8.228	244	301598	82.38	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 82.38%			
Target Compounds						Qvalue
60) Diethylphthal	6.699	149	2933	Below Cal		90
65) Ntrsdiphlam&Diphlam	6.870	169	4011	Below Cal	#	38
73) Dinbtylphthal	7.685	149	14432	0.2588	ug/mL	98
84) bis2Ethlhxlph	8.788	149	2765	0.1603	ug/mL	94

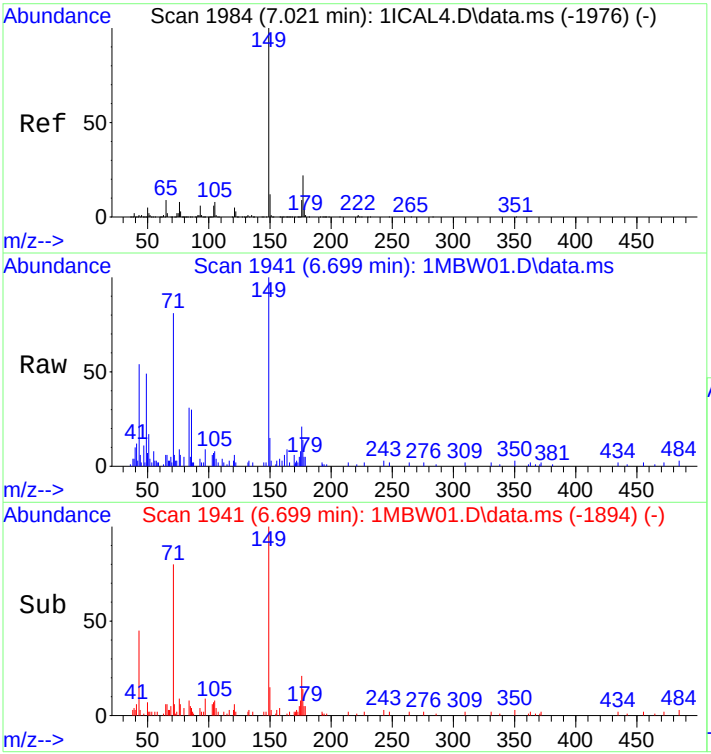
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MBW01.D Vial: 5
Acq On : 20 Aug 2013 13:57 Operator: RPN
Sample : 96903,MBW, Inst : SVMS1
Misc : 339715,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 16:55:58 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 20 16:55:54 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

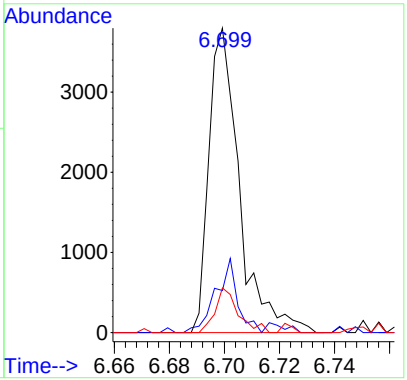


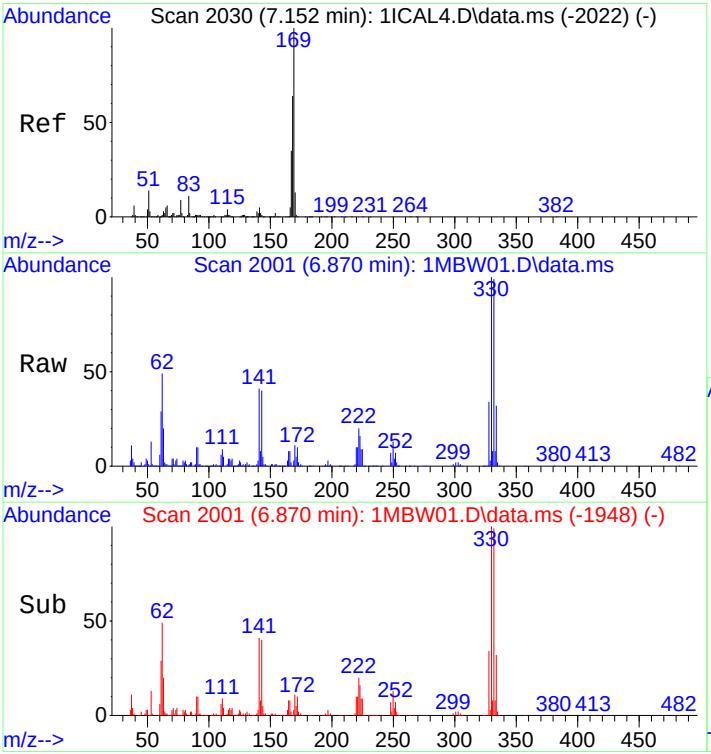


#60
Diethylphthal
Concen: Below ug/mL
RT: 6.699 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 1MBW01.D
Acq: 20 Aug 13 1:57 pm

Tgt Ion:149 Resp: 2933

Ion	Ratio	Lower	Upper
149	100		
177	13.8	0.0	49.9
150	14.7	0.0	42.4

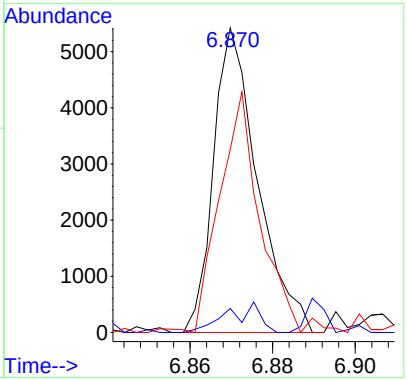


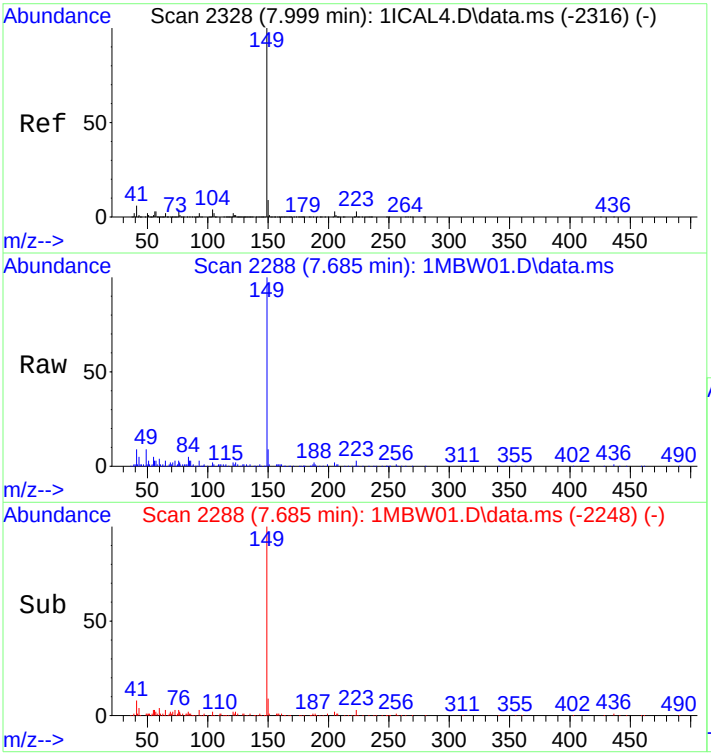


#65
Ntrsdiphlam&Diphlam
Concen: Below ug/mL
RT: 6.870 min Scan# 2001
Delta R.T. 0.034 min
Lab File: 1MBW01.D
Acq: 20 Aug 13 1:57 pm

Tgt Ion:169 Resp: 4011

Ion	Ratio	Lower	Upper
169	100		
168	7.9	34.5	94.5#
167	59.1	4.6	64.6

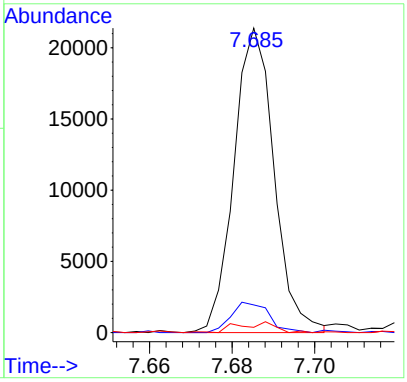


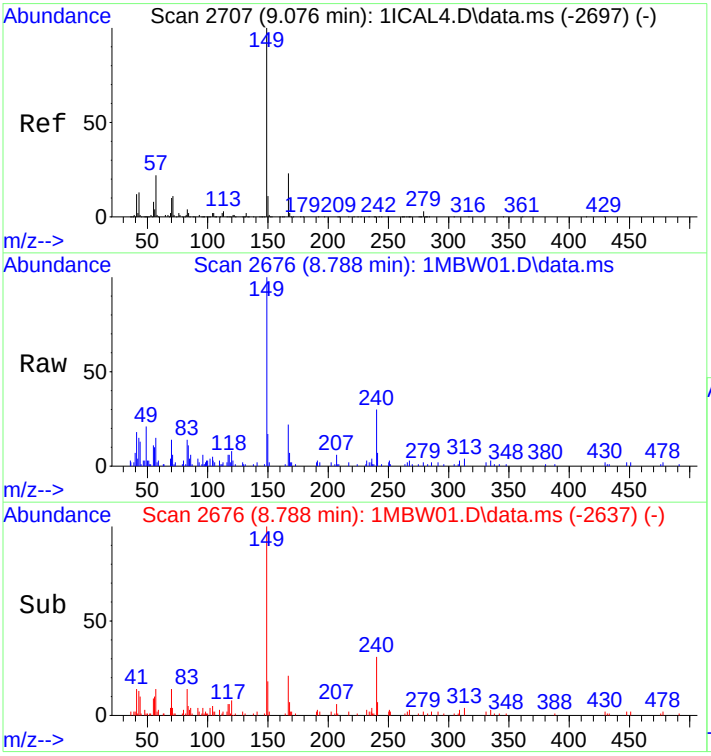


#73
Dinbtylphthal
Concen: 0.26 ug/mL
RT: 7.685 min Scan# 2288
Delta R.T. -0.003 min
Lab File: 1MBW01.D
Acq: 20 Aug 13 1:57 pm

Tgt Ion:149 Resp: 14432

Ion	Ratio	Lower	Upper
149	100		
150	9.1	0.0	39.4
104	1.7	0.0	33.5

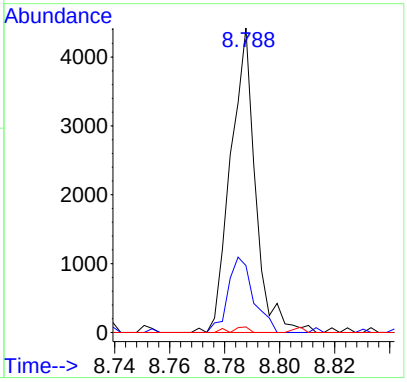




#84
bis2Ethlhxlph
Concen: 0.16 ug/mL
RT: 8.788 min Scan# 2676
Delta R.T. -0.006 min
Lab File: 1MBW01.D
Acq: 20 Aug 13 1:57 pm

Tgt Ion:149 Resp: 2765

Ion	Ratio	Lower	Upper
149	100		
167	22.0	0.0	55.0
279	1.9	0.0	31.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1LCSW01.D Vial: 6
Acq On : 20 Aug 2013 14:17 Operator: RPN
Sample : 96903,LCSW, Inst : SVMS1
Misc : 339716,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 16:49:52 2013

RPN 08/20/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.738	152	161460	20.00	ug/mL	-0.01
21) Naphthalened8	4.119	136	626204	20.00	ug/mL	-0.02
39) Acenaphthened10	6.296	164	484228	20.00	ug/mL	-0.01
63) Phenanthrd10	7.293	188	776233	20.00	ug/mL	0.00
75) Chrysene-d12	8.731	240	316924	20.00	ug/mL	0.00
86) Perylene-d12	9.490	264	334314	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.900	112	203216	46.17	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 46.17%			
7) SURRPhenol-d5	2.491	99	146444	31.19	%REC	-0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 31.19%			
22) SURRNitrbenzened5	3.287	82	126430	69.66	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 69.66%			
44) SURR2Flbiphenyl	5.713	172	448014	70.38	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 70.38%			
62) SURR246Tribrphenl	6.873	330	132786	82.87	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 82.87%			
78) SURRTerphenyl-d14	8.225	244	278332	88.07	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 88.07%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.323	74	56845	9.6706	ug/mL	96
3) Pyridine	1.335	79	78057	7.0762	ug/mL	90
5) Aniline	2.483	93	131446	9.0991	ug/mL	80
6) bis2Clethletr	2.551	93	134204	13.7352	ug/mL	92
8) Phenol	2.500	94	92343	6.7014	ug/mL	79
9) 2-Cl-phenol	2.571	128	156245	13.3050	ug/mL	98
10) 13Diclbenz	2.684	146	157092	11.4757	ug/mL	98
11) 14Diclbenz	2.752	146	148889	11.4971	ug/mL	98
12) 12Diclbenz	2.880	146	152699	11.9089	ug/mL	96
13) Benzyl alcoho	2.900	108	70340	12.4291	ug/mL	97
14) bis2clispreth	3.036	45	218907	13.3164	ug/mL	92
15) 2Methylphenol	3.034	107	98127	12.5628	ug/mL	99
16) Ntrspyrrol	3.133	100	60367	14.3567	ug/mL	98
17) Acetophenone	3.145	105	179811	14.3188	ug/mL	99
18) Hexaclethane	3.199	117	55792	11.4317	ug/mL	94
19) N-Ntrsdinprop	3.173	70	79953	14.0307	ug/mL	99
20) 3&4Methylphenol	3.204	107	111042	11.7826	ug/mL	99
23) Nitrobenzene	3.307	77	110366	12.4954	ug/mL	97
24) Isophorone	3.599	82	224897	13.3085	ug/mL	96
25) 2-Nitrophenol	3.673	139	79927	12.8193	ug/mL	97
26) 24Dimthpheno	3.815	122	120601	13.8026	ug/mL	95
27) bis2clethoxym	3.929	93	158484	13.3183	ug/mL	96
28) 24Diclphenol	3.991	162	130779	13.2386	ug/mL	98
29) 124Triclbenz	4.068	180	123283	11.1036	ug/mL	99
30) Benzoic acid	3.988	122	8990	1.8391	ug/mL	89
31) Naphthalene	4.145	128	364453	12.0964	ug/mL	98
32) 4-Cl-aniline	4.287	127	140482	11.0440	ug/mL	97
33) 26Diclphenol	4.281	162	117837	14.5991	ug/mL	91
34) Hexaclprop	4.273	213	69686	10.4288	ug/mL	94
35) Hexaclbutdien	4.358	225	64357	10.8862	ug/mL	99
36) 4Cl3methylphe	5.097	107	143132	13.0147	ug/mL	95
37) 2Methylnaphth	5.145	142	350836	11.4791	ug/mL	98
38) 1Methylnaphth	5.296	141	322560	11.9085	ug/mL	99
40) Hxclcycpentdi	5.415	237	75183	10.6194	ug/mL	90

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1LCSW01.D Vial: 6
Acq On : 20 Aug 2013 14:17 Operator: RPN
Sample : 96903,LCSW, Inst : SVMS1
Misc : 339716,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 16:49:52 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

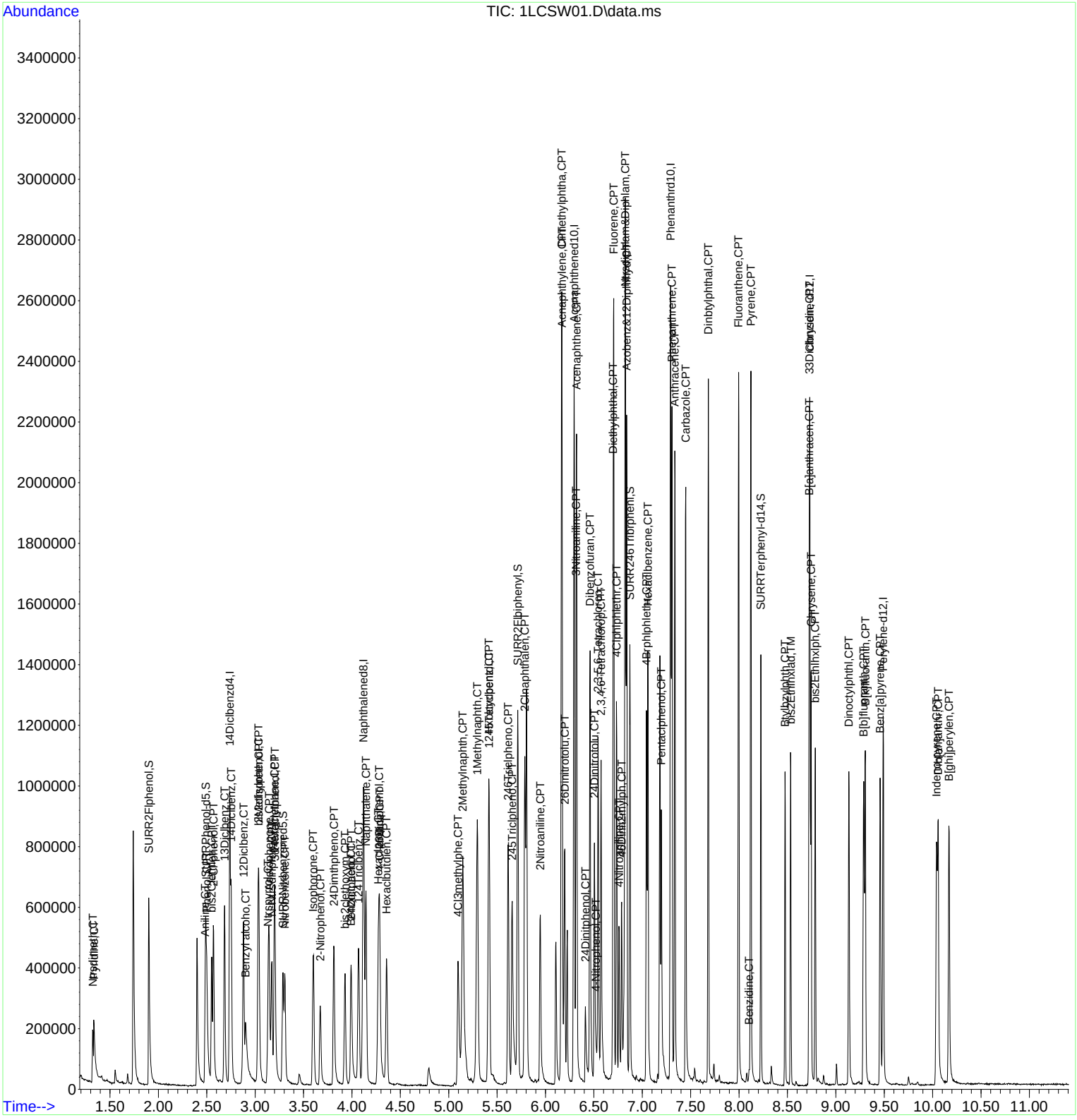
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.418	216	184414	12.3816	ug/mL	97
42) 246Triclpheno	5.614	196	141196	14.8221	ug/mL	94
43) 245Triclpheno	5.654	196	156090	14.9866	ug/mL	98
45) 2Clnaphthalen	5.787	162	370849	12.9093	ug/mL	97
46) 2Nitroaniline	5.946	65	89815	15.8405	ug/mL	98
47) Acnaphthylene	6.171	152	565317	13.1988	ug/mL	100
48) Dimethylphtha	6.168	163	472951	16.6965	ug/mL	99
49) 26Dinitrotolu	6.199	165	113359	16.0337	ug/mL	99
50) Acenaphthene	6.321	154	314852	13.0552	ug/mL	99
51) 3Nitroaniline	6.316	138	100069	15.2265	ug/mL	96
52) 24Dinitphenol	6.412	184	57869	13.6696	ug/mL	98
53) Dibenzofuran	6.461	168	511899	13.8357	ug/mL	99
54) 24Dinitrotolu	6.506	165	148889	16.7825	ug/mL	97
55) 4-Nitrophenol	6.520	139	41634	8.2577	ug/mL	96
56) 2,3,5,6-Tetrachlorop	6.543	232	119061	17.1377	ug/mL	99
57) 2,3,4,6-Tetrachlorop	6.574	232	124326	15.0179	ug/mL	98
58) Fluorene	6.705	166	403932	14.4248	ug/mL	97
59) 4Clphlphlethr	6.733	204	201186	13.9999	ug/mL	97
60) Diethylphthal	6.699	149	464951	16.7571	ug/mL	100
61) 4Nitroaniline	6.762	138	112661	17.2816	ug/mL	94
64) 46Dinit2mylph	6.787	198	80983	15.2215	ug/mL	96
65) Ntrsdiphlam&Diphlam	6.824	169	572771	35.3724	ug/mL	99
66) Azobenz&12Diphlhyd	6.838	182	177524	30.4622	ug/mL	91
67) 4Brphlphlethr	7.043	248	130635	15.0616	ug/mL	98
68) Hexaclbenzene	7.057	284	139522	15.2841	ug/mL	98
69) Pentaclphenol	7.196	266	93981	16.3530	ug/mL	98
70) Phenanthrene	7.307	178	603468	15.1735	ug/mL	99
71) Anthracene	7.336	178	645606	15.6267	ug/mL	100
72) Carbazole	7.449	167	660037	16.9155	ug/mL	99
73) Dinbtylphthal	7.682	149	906535	17.0927	ug/mL	100
74) Fluoranthene	7.995	202	761703	16.2919	ug/mL	100
76) Benzidine	8.103	184	17303	1.4821	ug/mL	94
77) Pyrene	8.123	202	691783	17.3414	ug/mL	98
79) Btylbzylphth	8.475	149	191564	17.1486	ug/mL	98
80) bis2Ethlhxlad	8.535	129	150398	16.5375	ug/mL	100
81) 33Diclbnzidin	8.728	252	91803	19.0448	ug/mL	90
82) B[a]anthracen	8.725	228	296301	16.4643	ug/mL	98
83) Chrysene	8.745	228	270855	16.2217	ug/mL	99
84) bis2Ethlhxlph	8.788	149	257378	17.2878	ug/mL	98
85) Dinoctylphthl	9.134	149	476790	17.2306	ug/mL	100
87) B[b]fluoranth	9.288	252	327562	17.2217	ug/mL	97
88) B[k]fluoranth	9.305	252	286920	16.3535	ug/mL	97
89) Benz[a]pyrene	9.458	252	301679	16.2249	ug/mL	99
90) Indeno-pyrene	10.041	276	338026	16.5284	ug/mL	99
91) Dib[ah]anthr	10.058	278	258943	17.0373	ug/mL	96
92) B[ghi]perylen	10.169	276	287715	15.7500	ug/mL	97

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1LCSW01.D Vial: 6
Acq On : 20 Aug 2013 14:17 Operator: RPN
Sample : 96903,LCSW, Inst : SVMS1
Misc : 339716,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 16:49:52 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MRL02.D Vial: 3
Acq On : 20 Aug 2013 16:41 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 14:44:17 2013

RPN
08/20/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.735	152	154459	20.00	ug/mL	0.01
21) Naphthalened8	4.116	136	558146	20.00	ug/mL	0.02
39) Acenaphthened10	6.293	164	452803	20.00	ug/mL	0.01
63) Phenanthrd10	7.290	188	698253	20.00	ug/mL	0.00
75) Chrysene-d12	8.728	240	318691	20.00	ug/mL	0.00
86) Perylene-d12	9.487	264	315769	20.00	ug/mL	0.01
System Monitoring Compounds						
4) SURR2Flphenol	1.903	112	7977	1.89	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 1.89%#			
7) SURRPhenol-d5	2.488	99	10510	2.34	%REC	0.02
Spiked Amount 100.000	Range 10 - 115		Recovery = 2.34%#			
22) SURRNitrbenzened5	3.287	82	7569	4.68	%REC	0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 4.68%#			
44) SURR2Flbiphenyl	5.713	172	34643	5.82	%REC	0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 5.82%#			
62) SURR246Tribrphenl	6.870	330	4359	2.91	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 2.91%#			
78) SURRTerphenyl-d14	8.225	244	18501	5.82	%REC	0.01
Spiked Amount 100.000	Range 50 - 135		Recovery = 5.82%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.315	74	4985	0.8865	ug/mL	74
3) Pyridine	1.349	79	7555	0.7159	ug/mL	97
5) Aniline	2.494	93	12563	0.9091	ug/mL#	1
6) bis2Clethletr	2.551	93	8978	0.9605	ug/mL	96
8) Phenol	2.497	94	58230	4.4174	ug/mL	94
9) 2-Cl-phenol	2.565	128	55924	4.9780	ug/mL	96
10) 13Diclbenz	2.681	146	14418	1.1010	ug/mL	95
11) 14Diclbenz	2.752	146	13990	1.1293	ug/mL	93
12) 12Diclbenz	2.880	146	13675	1.1148	ug/mL	94
13) Benzyl alcoho	2.917	108	3132	0.5785	ug/mL#	67
14) bis2clispreth	3.035	45	17841	1.1345	ug/mL#	71
15) 2Methylphenol	3.028	107	34998	4.6838	ug/mL	87
16) Ntrspyrrol	3.133	100	3375	0.8390	ug/mL	93
17) Acetophenone	3.145	105	13117	1.0919	ug/mL	83
18) Hexaclethane	3.196	117	5356	1.1472	ug/mL	84
19) N-Ntrsdinprop	3.170	70	5836	1.0706	ug/mL	82
20) 3&4Methylphenol	3.199	107	85553	9.4894	ug/mL	98
23) Nitrobenzene	3.309	77	6332	0.8043	ug/mL	87
24) Isophorone	3.599	82	15331	1.0179	ug/mL	97
25) 2-Nitrophenol	3.673	139	26877	4.8364	ug/mL	98
26) 24Dimthpheno	3.809	122	40486	5.1985	ug/mL	87
27) bis2clethoxym	3.923	93	10311	0.9721	ug/mL	89
28) 24Diclphenol	3.991	162	45309	5.1458	ug/mL	97
29) 124Triclbenz	4.068	180	11202	1.1319	ug/mL	98
30) Benzoic acid	3.988	122	15774	3.6204	ug/mL	90
31) Naphthalene	4.142	128	30287	1.1278	ug/mL	97
32) 4-Cl-aniline	4.292	127	12075	1.0650	ug/mL	80
33) 26Diclphenol	4.278	162	43719	6.0769	ug/mL	97
34) Hexaclprop	4.270	213	6196	1.0403	ug/mL	95
35) Hexaclbutdien	4.355	225	6183	1.1734	ug/mL	89
36) 4Cl3methylphe	5.094	107	47014	4.7962	ug/mL	93
37) 2Methylnaphth	5.145	142	35867	1.3166	ug/mL	80
38) 1Methylnaphth	5.295	141	26593	1.1015	ug/mL	98
40) Hxclcycpentdi	5.412	237	4584	0.6924	ug/mL	91

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MRL02.D Vial: 3
Acq On : 20 Aug 2013 16:41 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 14:44:17 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

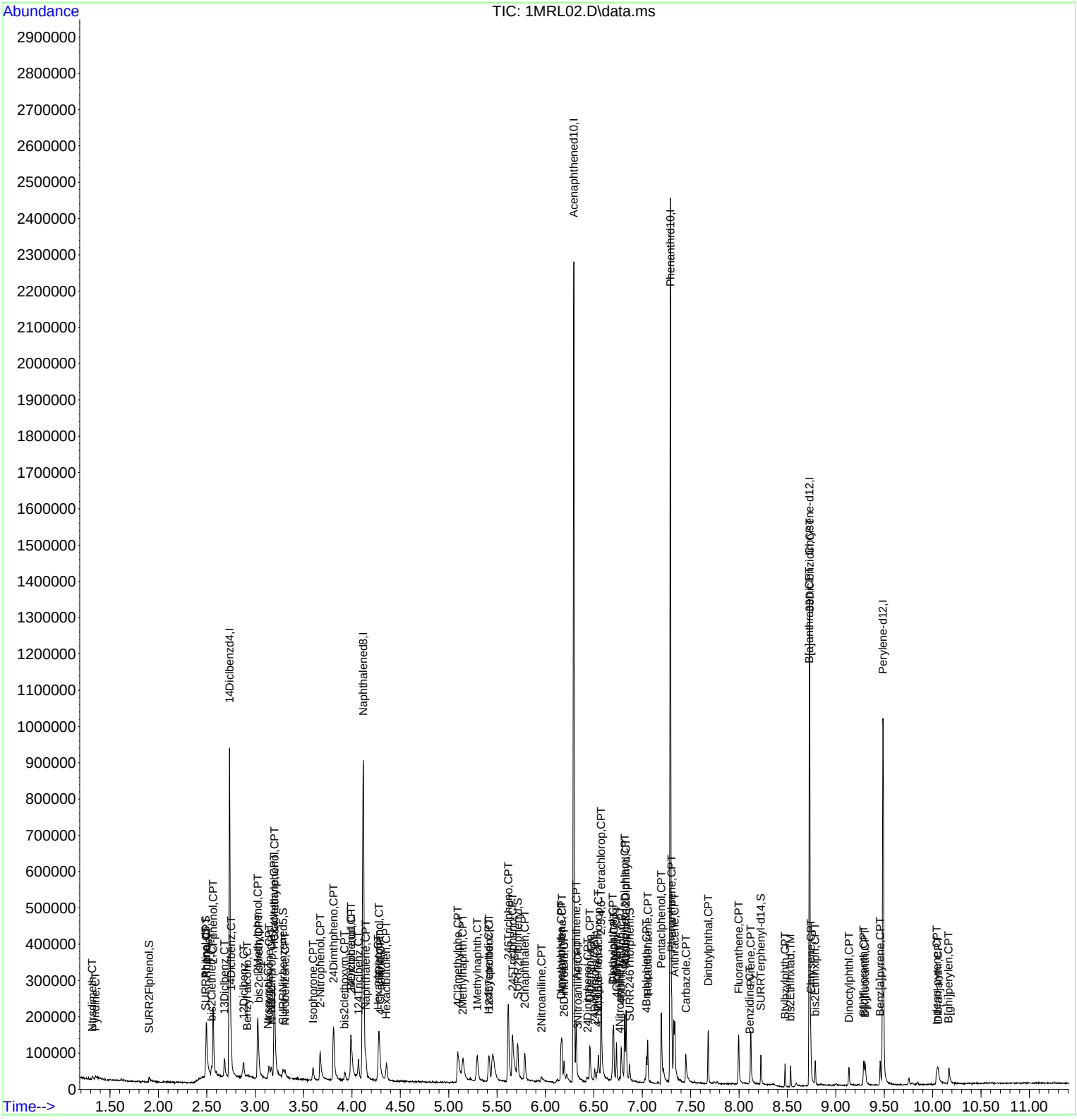
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.418	216	16379	1.1760 ug/mL	88
42) 246Triclpheno	5.617	196	41892	4.7028 ug/mL	96
43) 245Triclpheno	5.659	196	46123	4.7357 ug/mL	98
45) 2Clnaphthalen	5.787	162	29382	1.0938 ug/mL	96
46) 2Nitroaniline	5.960	65	4233	0.7984 ug/mL#	74
47) Acnaphthylene	6.171	152	49060	0.8516 ug/mL	96
48) Dimethylphtha	6.159	163	34972	0.9213 ug/mL	98
49) 26Dinitrotolu	6.193	165	6316	0.9553 ug/mL	91
50) Acenaphthene	6.318	154	28020	0.9825 ug/mL	91
51) 3Nitroaniline	6.333	138	5989	0.9745 ug/mL	96
52) 24Dinitphenol	6.435	184	8236	4.4017 ug/mL	70
53) Dibenzofuran	6.458	168	41028	1.1859 ug/mL	99
54) 24Dinitrotolu	6.509	165	8320	1.0029 ug/mL	95
55) 4-Nitrophenol	6.537	139	18786	3.9846 ug/mL	74
56) 2,3,5,6-Tetrachlorop	6.546	232	6412	0.9870 ug/mL	93
57) 2,3,4,6-Tetrachlorop	6.574	232	42033	5.4297 ug/mL	96
58) Fluorene	6.705	166	33657	0.9403 ug/mL	93
59) 4Clphlphlethr	6.733	204	15958	0.9485 ug/mL	90
60) Diethylphthal	6.696	149	33662	0.9341 ug/mL	98
61) 4Nitroaniline	6.767	138	5573	0.9142 ug/mL#	78
64) 46Dinit2mylph	6.784	198	19754	4.1276 ug/mL	95
65) Ntrsdiphlam&Diphlam	6.819	169	40106	1.8237 ug/mL	98
66) Azobenz&12Diphlhyd	6.833	182	14159	1.8489 ug/mL	98
67) 4Brphlphlethr	7.043	248	9005	1.1542 ug/mL	95
68) Hexaclbenzene	7.057	284	11212	1.3654 ug/mL	94
69) Pentaclphenol	7.196	266	23945	4.6318 ug/mL	92
70) Phenanthrene	7.304	178	45835	1.2812 ug/mL	98
71) Anthracene	7.336	178	46861	1.2609 ug/mL	98
72) Carbazole	7.452	167	42469	1.2100 ug/mL	94
73) Dinbtylphthal	7.682	149	59144	1.2397 ug/mL	98
74) Fluoranthene	7.998	202	50291	1.1958 ug/mL	96
76) Benzidine	8.111	184	8336	0.7101 ug/mL	93
77) Pyrene	8.120	202	48297	1.2040 ug/mL	97
79) Btylbzylphth	8.475	149	10470	0.9321 ug/mL	98
80) bis2Ethlhxlad	8.532	129	7716	0.8437 ug/mL	98
81) 33Diclbnzidin	8.731	252	5964	1.2304 ug/mL	82
82) B[a]anthracen	8.725	228	18358	1.0144 ug/mL	97
83) Chrysene	8.742	228	18748	1.1166 ug/mL	97
84) bis2Ethlhxlph	8.788	149	14393	0.9614 ug/mL	100
85) Dinoctylphthl	9.137	149	22146	0.7959 ug/mL	94
87) B[b]fluoranth	9.288	252	17341	0.9653 ug/mL	96
88) B[k]fluoranth	9.302	252	18969	1.1447 ug/mL	98
89) Benz[a]pyrene	9.458	252	19866	1.1312 ug/mL	82
90) Indeno-pyrene	10.044	276	19741	1.0220 ug/mL	95
91) Dib[ah]anthr	10.058	278	15053	1.0486 ug/mL	96
92) B[ghi]perylen	10.166	276	19327	1.1201 ug/mL	87

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

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MRL02.D Vial: 3
Acq On : 20 Aug 2013 16:41 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 14:44:17 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MDL02.D Vial: 4
Acq On : 20 Aug 2013 16:59 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 17:11:10 2013

RPN
08/20/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.735	152	159653	20.00	ug/mL	-0.02
21) Naphthalened8	4.116	136	554276	20.00	ug/mL	-0.02
39) Acenaphthened10	6.293	164	457735	20.00	ug/mL	-0.01
63) Phenanthrd10	7.290	188	700582	20.00	ug/mL	-0.01
75) Chrysene-d12	8.728	240	325769	20.00	ug/mL	-0.01
86) Perylene-d12	9.487	264	299731	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.911	112	2352	0.54	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 0.54%#			
7) SURRPhenol-d5	2.491	99	5005	1.08	%REC	-0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 1.08%#			
22) SURRNitrbenzened5	3.289	82	3515	2.19	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 2.19%#			
44) SURR2Flbiphenyl	5.713	172	16661	2.77	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 2.77%#			
62) SURR246Tribrphenl	6.875	330	1552	1.02	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 1.02%#			
78) SURRTerphenyl-d14	8.228	244	9629	2.96	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 2.96%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.326	74	1969	0.3388	ug/mL#	62
3) Pyridine	1.377	79	3242	0.2972	ug/mL#	39
5) Aniline	2.497	93	6055	0.4239	ug/mL#	1
6) bis2Clethletr	2.551	93	5423	0.5613	ug/mL	96
8) Phenol	2.500	94	26792	1.9663	ug/mL	89
9) 2-Cl-phenol	2.568	128	27475	2.3661	ug/mL	96
10) 13Diclbenz	2.684	146	6378	0.4712	ug/mL	90
11) 14Diclbenz	2.750	146	6887	0.5378	ug/mL	96
12) 12Diclbenz	2.880	146	6277	0.4951	ug/mL	89
13) Benzyl alcoho	2.940	108	1473	0.2632	ug/mL#	59
14) bis2clispreth	3.038	45	8495	0.5226	ug/mL#	53
15) 2Methylphenol	3.031	107	17650	2.2852	ug/mL	88
16) Ntrspyrrol	3.139	100	1167	0.2807	ug/mL#	70
17) Acetophenone	3.145	105	5119	0.4123	ug/mL	79
18) Hexaclethane	3.199	117	2891	0.5991	ug/mL	92
19) N-Ntrsdinprop	3.167	70	2706	0.4802	ug/mL	98
20) 3&4Methylphenol	3.201	107	41104	4.4109	ug/mL	94
23) Nitrobenzene	3.309	77	1849	0.2365	ug/mL#	60
24) Isophorone	3.602	82	7873	0.5264	ug/mL	96
25) 2-Nitrophenol	3.676	139	12277	2.2246	ug/mL	87
26) 24Dimthpheno	3.815	122	21947	2.8377	ug/mL	94
27) bis2clethoxym	3.932	93	4892	0.4644	ug/mL	93
28) 24Diclphenol	3.997	162	21374	2.4444	ug/mL	94
29) 124Triclbenz	4.068	180	5930	0.6034	ug/mL	99
30) Benzoic acid	4.077	122	1823	0.4213	ug/mL#	79
31) Naphthalene	4.142	128	15148	0.5680	ug/mL	97
32) 4-Cl-aniline	4.310	127	4135	0.3673	ug/mL	81
33) 26Diclphenol	4.284	162	21055	2.9471	ug/mL	97
34) Hexaclprop	4.267	213	1420	0.2401	ug/mL	89
35) Hexaclbutdien	4.364	225	3182	0.6081	ug/mL#	39
36) 4Cl3methylphe	5.102	107	18733	1.9244	ug/mL	84
37) 2Methylnaphth	5.153	142	32585	1.2045	ug/mL	88
38) 1Methylnaphth	5.298	141	14645	0.6108	ug/mL	95
40) Hxclcycpentdi	5.409	237	1210	0.1808	ug/mL#	44

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MDL02.D Vial: 4
Acq On : 20 Aug 2013 16:59 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 17:11:10 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

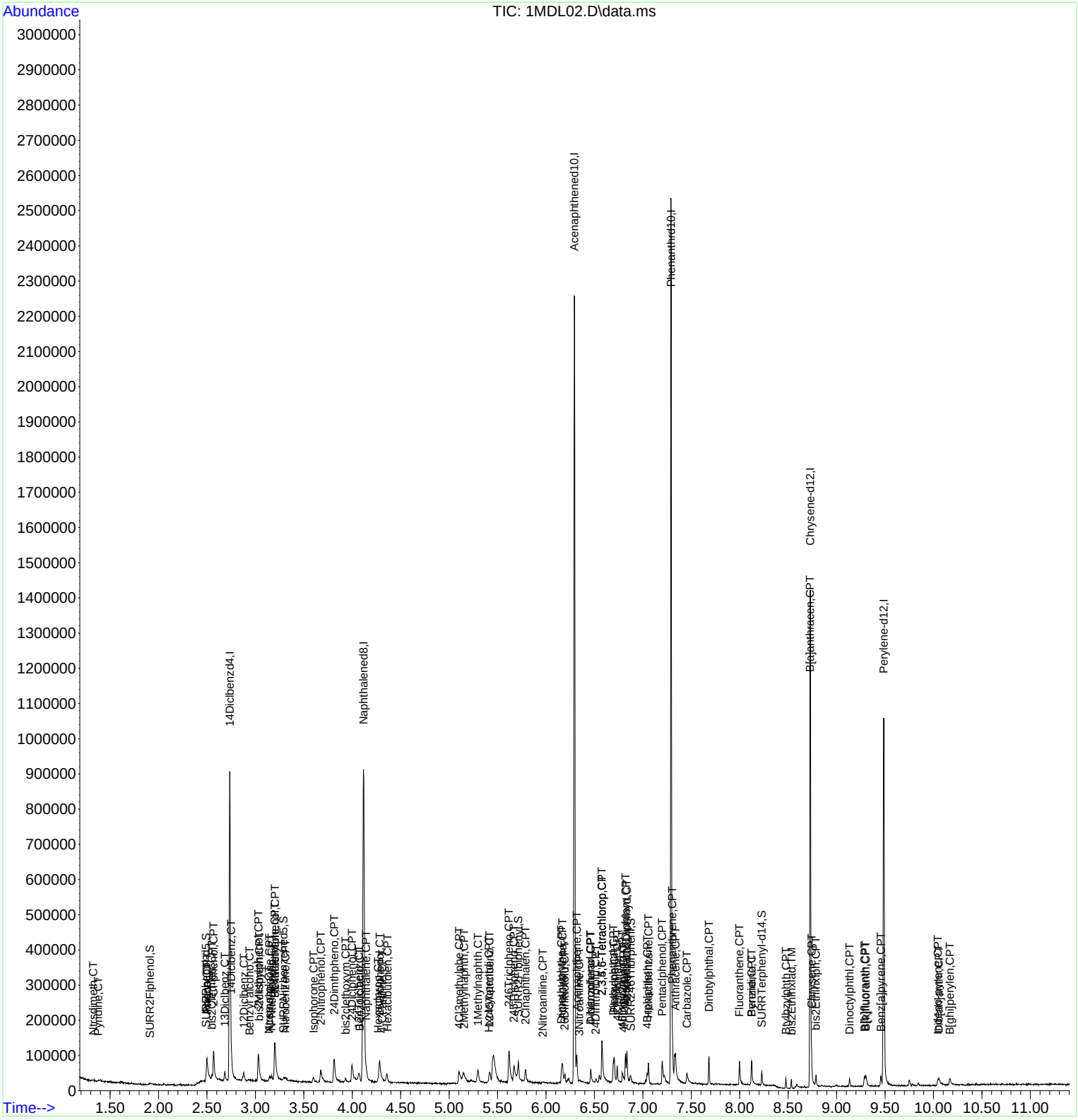
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.418	216	7459	0.5298 ug/mL	94
42) 246Triclpheno	5.617	196	20387	2.2640 ug/mL	96
43) 245Triclpheno	5.668	196	20790	2.1116 ug/mL	75
45) 2Clnaphthalen	5.790	162	14253	0.5249 ug/mL	97
46) 2Nitroaniline	5.966	65	612	0.1142 ug/mL#	63
47) Acnaphthylene	6.171	152	23956	0.2556 ug/mL	94
48) Dimethylphtha	6.159	163	15251	0.2479 ug/mL	98
49) 26Dinitrotolu	6.193	165	3071	0.4595 ug/mL	84
50) Acenaphthene	6.318	154	13367	0.3676 ug/mL	98
51) 3Nitroaniline	6.344	138	1551	0.2497 ug/mL	79
52) 24Dinitphenol	0.000		0	N.D.	
53) Dibenzofuran	6.461	168	18822	0.5382 ug/mL	97
54) 24Dinitrotolu	6.515	165	2897	0.3454 ug/mL	89
55) 4-Nitrophenol	6.461	139	6001	1.2591 ug/mL#	24
56) 2,3,5,6-Tetrachlorop	6.577	232	19215	2.9259 ug/mL	89
57) 2,3,4,6-Tetrachlorop	6.577	232	16225	2.0733 ug/mL	90
58) Fluorene	6.705	166	16785	0.3453 ug/mL	95
59) 4Clphlphlethr	6.736	204	7284	0.3494 ug/mL	99
60) Diethylphthal	6.696	149	17175	0.3620 ug/mL	97
61) 4Nitroaniline	6.799	138	1455	0.2361 ug/mL#	62
64) 46Dinit2mylph	6.787	198	7995	1.6650 ug/mL	87
65) Ntrsdiphlam&Diphlam	6.821	169	20267	0.6201 ug/mL	91
66) Azobenz&12Diphlhyd	6.836	182	6347	0.4746 ug/mL	91
67) 4Brphlphlethr	7.046	248	4289	0.5479 ug/mL	91
68) Hexaclbenzene	7.057	284	5241	0.6361 ug/mL	94
69) Pentaclphenol	7.199	266	9154	1.7648 ug/mL	86
70) Phenanthrene	7.304	178	22803	0.6353 ug/mL	95
71) Anthracene	7.339	178	22408	0.6009 ug/mL	98
72) Carbazole	7.455	167	20447	0.5806 ug/mL	94
73) Dinbtylphthal	7.682	149	32485	0.6786 ug/mL	98
74) Fluoranthene	7.998	202	25530	0.6050 ug/mL	93
76) Benzidine	8.123	184	4250	0.3541 ug/mL	78
77) Pyrene	8.123	202	23652	0.5768 ug/mL	92
79) Btylbzylphth	8.478	149	4990	0.4346 ug/mL	98
80) bis2Ethlhxlad	8.535	129	3534	0.3780 ug/mL#	86
81) 33Diclbnzidin	0.000		0	N.D.	
82) B[a]anthracen	8.725	228	9905	0.5354 ug/mL	96
83) Chrysene	8.742	228	9322	0.5431 ug/mL	98
84) bis2Ethlhxlph	8.788	149	6550	0.4280 ug/mL	92
85) Dinoctylphthl	9.134	149	9275	0.3261 ug/mL	99
87) B[b]fluoranth	9.291	252	8600	0.5043 ug/mL	98
88) B[k]fluoranth	9.302	252	9106	0.5789 ug/mL	91
89) Benz[a]pyrene	9.458	252	7700	0.4619 ug/mL	80
90) Indeno-pyrene	10.046	276	8993	0.4905 ug/mL	94
91) Dib[ah]anthr	10.055	278	4699	0.3448 ug/mL	88
92) B[ghi]perylen	10.169	276	7922	0.4837 ug/mL	85

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082013\1MDL02.D Vial: 4
Acq On : 20 Aug 2013 16:59 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 20 17:11:10 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Aug 06 15:21:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2MRL01.D Vial: 3
Acq On : 21 Aug 2013 11:07 Operator: RPN
Sample : MRL 50ng/mL SVMS5715 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:49:43 2013

RPN
08/21/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:44:28 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

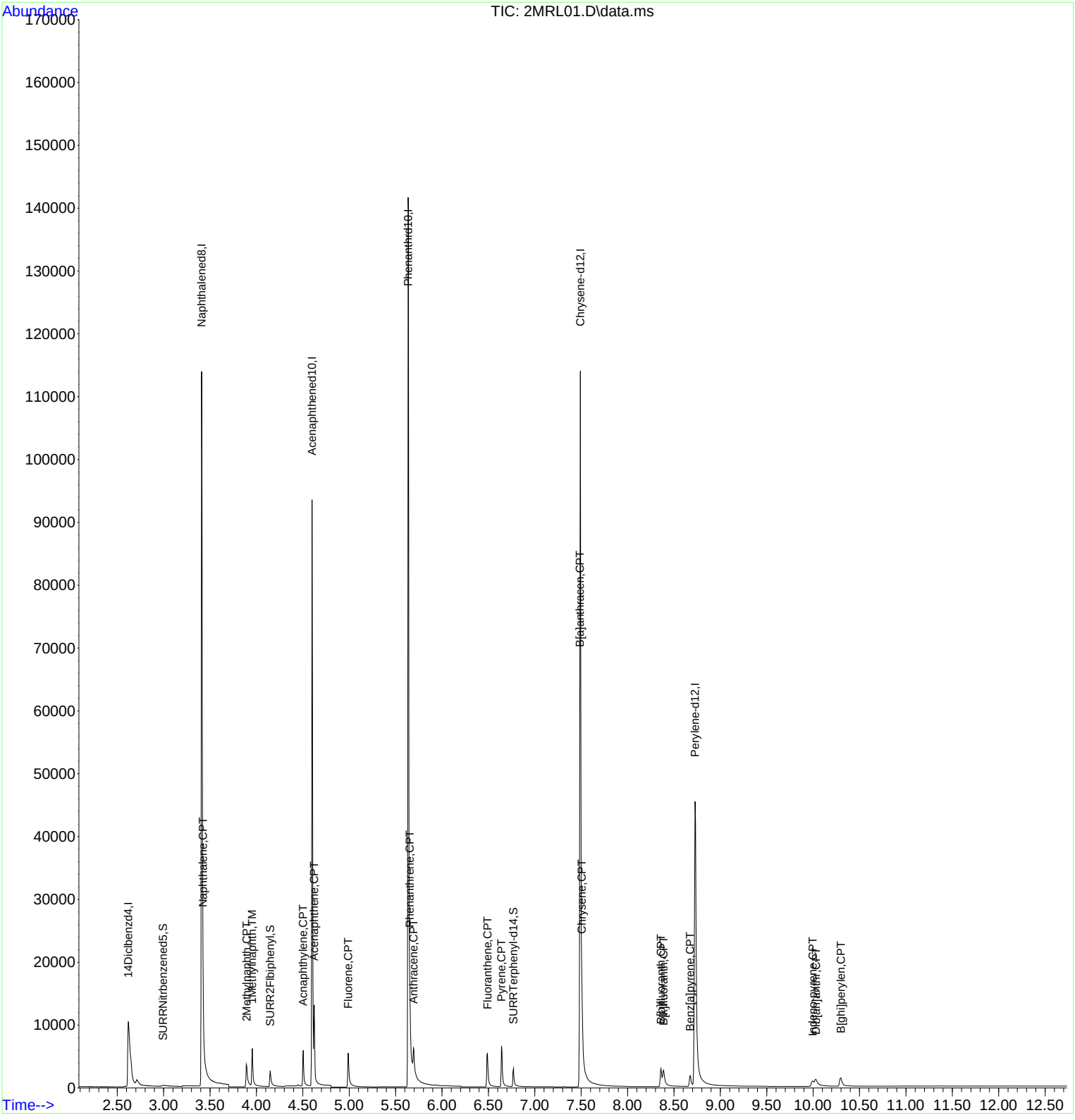
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.619	152	21208	1000.00	ng/mL	0.00
2) Naphthalened8	3.409	136	98643	1000.00	ng/mL	-0.02
7) Acenaphthened10	4.600	164	60243	1000.00	ng/mL	-0.02
12) Phenanthrd10	5.635	188	110975	1000.00	ng/mL	-0.02
16) Chrysene-d12	7.490	240	96764	1000.00	ng/mL	-0.02
21) Perylene-d12	8.727	264	66763	1000.00	ng/mL	-0.03
System Monitoring Compounds						
3) SURRNitrbenzened5	2.994	82	1261	4.58	%REC	0.00
Spiked Amount 100.000			Recovery = 4.58%			
8) SURR2Flbiphenyl	4.148	172	3911	5.67	%REC	-0.02
Spiked Amount 100.000			Recovery = 5.67%			
18) SURRTerphenyl-d14	6.770	244	3204	4.96	ng/mL	-0.02
Spiked Amount 100.000			Recovery = 4.96%			
Target Compounds						Qvalue
4) Naphthalene	3.424	128	4373	50.3107	ng/mL	99
5) 2Methylnaphth	3.896	142	2585	50.5835	ng/mL	100
6) 1Methylnaphth	3.955	142	3264	49.3017	ng/mL	98
9) Acnaphthylene	4.504	152	3678	47.2304	ng/mL	99
10) Acenaphthene	4.623	154	2917	49.7794	ng/mL	96
11) Fluorene	4.989	166	3293	51.1691	ng/mL	81
13) Phenanthrene	5.652	178	5073	53.6757	ng/mL	99
14) Anthracene	5.692	178	4919	44.7240	ng/mL	98
15) Fluoranthene	6.490	202	5855	46.7958	ng/mL	100
17) Pyrene	6.641	202	5917	47.8773	ng/mL	93
19) B[a]anthracen	7.485	228	4148	54.4124	ng/mL	88
20) Chrysene	7.507	228	5777	49.0809	ng/mL	94
22) B[b]fluoranth	8.361	252	2999	47.2256	ng/mL	99
23) B[k]fluoranth	8.388	252	4371	47.7323	ng/mL	99
24) Benz[a]pyrene	8.673	252	2387	35.0072	ng/mL	99
25) Indeno-pyrene	9.996	276	2353	47.7174	ng/mL	99
26) Dib[ah]anthr	10.029	278	1770	50.0643	ng/mL	97
27) B[ghi]perylen	10.298	276	2383	48.9850	ng/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2MRL01.D Vial: 3
Acq On : 21 Aug 2013 11:07 Operator: RPN
Sample : MRL 50ng/mL SVMS5715 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:49:43 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:44:28 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2MBW01.D Vial: 5
Acq On : 21 Aug 2013 11:46 Operator: RPN
Sample : 96939,MBW, Inst : SVMS2
Misc : 339737,500uL+5uL IS SVMS5791 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:08:51 2013

RPN
08/21/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Aug 08 13:05:27 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

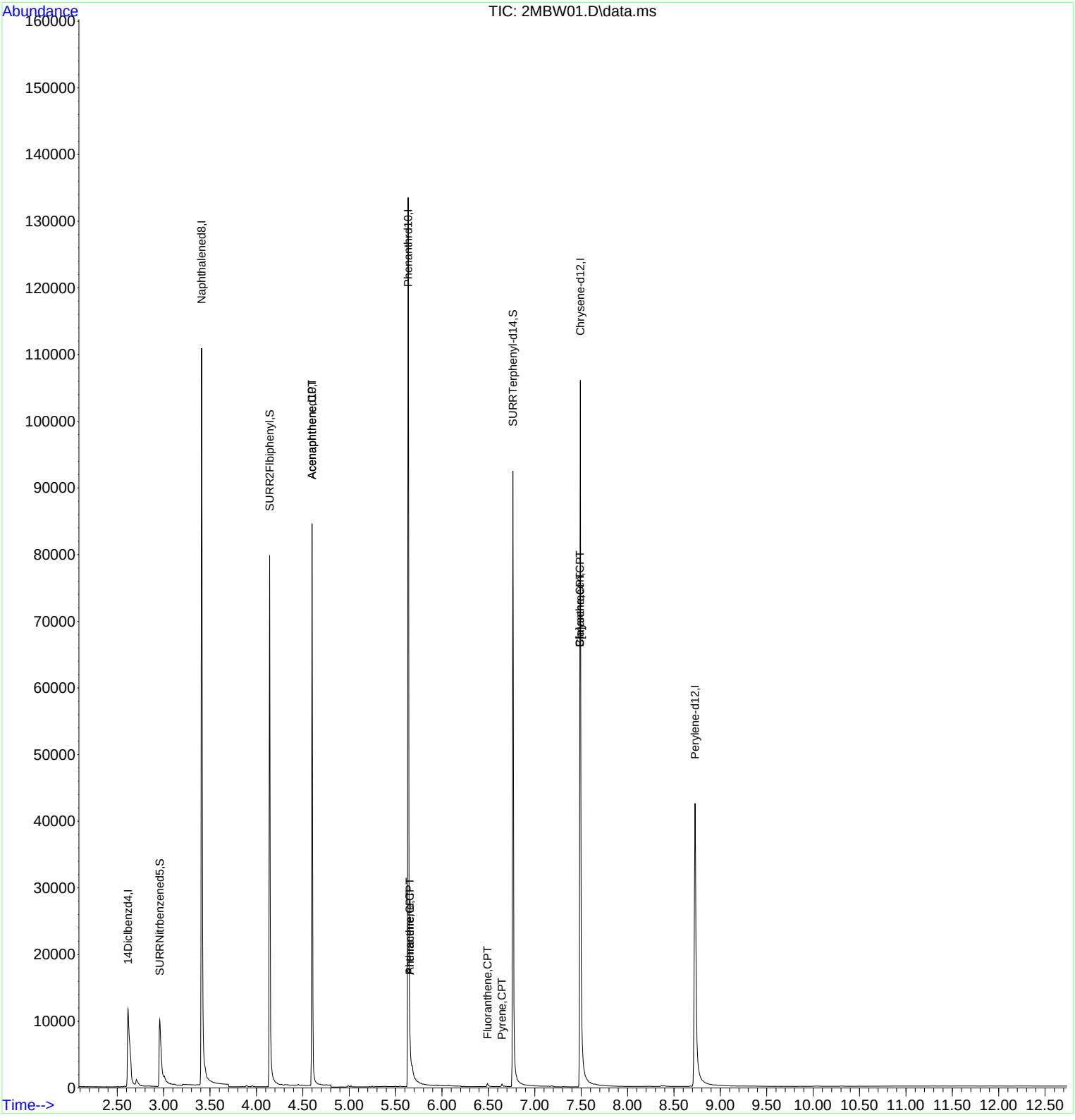
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.615	152	21070	1000.00	ng/mL	0.00
2) Naphthalened8	3.409	136	91237	1000.00	ng/mL	-0.01
7) Acenaphthened10	4.600	164	53513	1000.00	ng/mL	-0.02
12) Phenanthrd10	5.635	188	101095	1000.00	ng/mL	-0.02
16) Chrysene-d12	7.491	240	89573	1000.00	ng/mL	-0.02
21) Perylene-d12	8.727	264	60947	1000.00	ng/mL	-0.03
System Monitoring Compounds						
3) SURRNitrbenzened5	2.958	82	27443	107.77	%REC	-0.03
Spiked Amount 100.000			Recovery = 107.77%			
8) SURR2Flbiphenyl	4.143	172	60618	98.91	%REC	-0.02
Spiked Amount 100.000			Recovery = 98.91%			
18) SURRTerphenyl-d14	6.765	244	72715	121.60	ng/mL	-0.02
Spiked Amount 100.000			Recovery = 121.60%			
Target Compounds						Qvalue
10) Acenaphthene	4.600	154	305	5.8595	ng/mL#	1
13) Phenanthrene	5.652	178	957	11.1153	ng/mL	99
14) Anthracene	5.652	178	1318	13.1545	ng/mL	98
15) Fluoranthene	6.490	202	465	4.0797	ng/mL	100
17) Pyrene	6.646	202	403	3.5227	ng/mL	99
19) B[a]anthracen	7.485	228	319	4.5205	ng/mL	72
20) Chrysene	7.485	228	319	2.9278	ng/mL	73

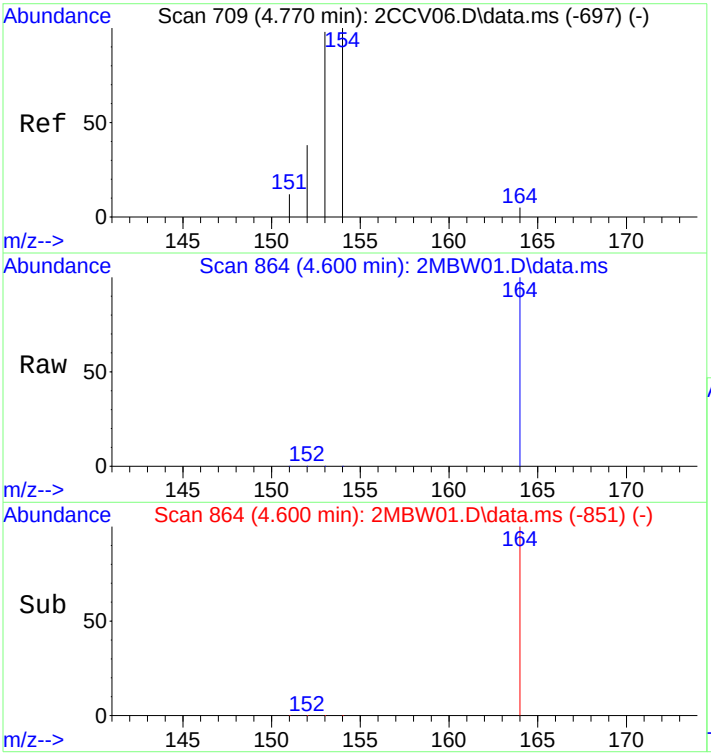
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2MBW01.D Vial: 5
Acq On : 21 Aug 2013 11:46 Operator: RPN
Sample : 96939,MBW, Inst : SVMS2
Misc : 339737,500uL+5uL IS SVMS5791 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:08:51 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Aug 08 13:05:27 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

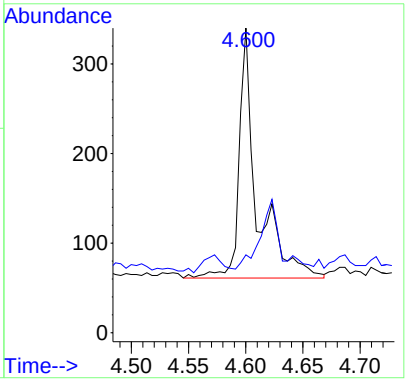


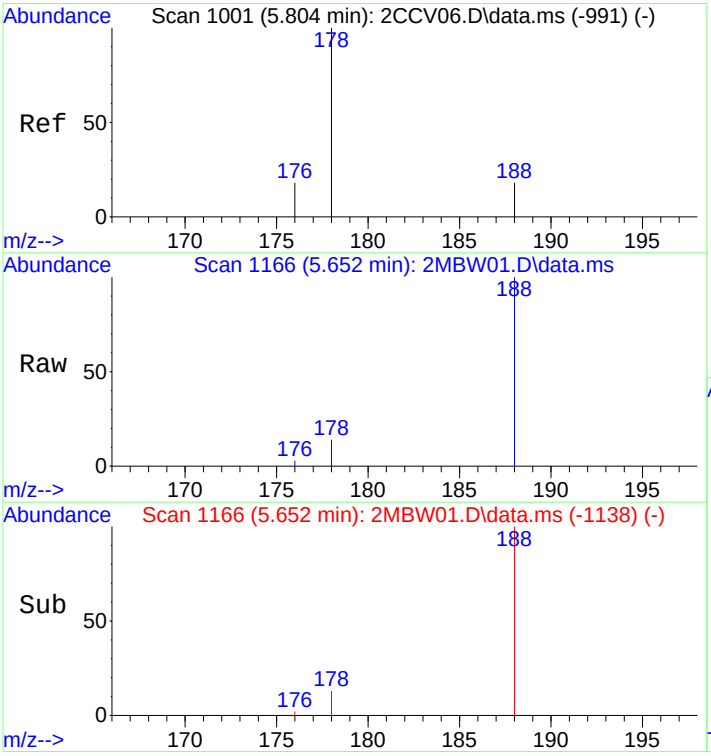


#10
Acenaphthene
Concen: 5.86 ng/mL
RT: 4.600 min Scan# 864
Delta R.T. -0.041 min
Lab File: 2MBW01.D
Acq: 21 Aug 13 11:46 am

Tgt Ion:154 Resp: 305

Ion	Ratio	Lower	Upper
154	100		
153	6.5	84.6	144.6#

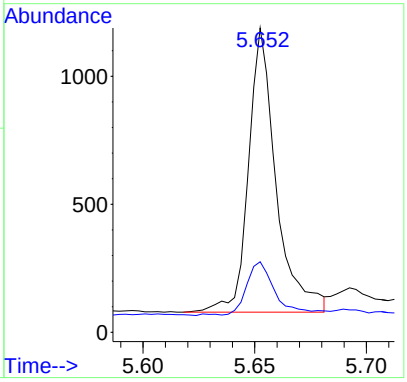


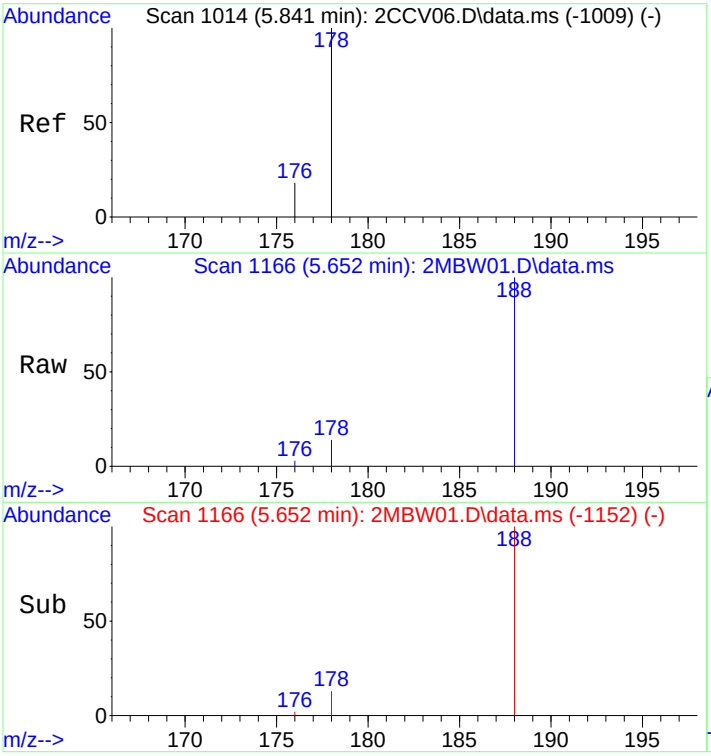


#13
Phenanthrene
Concen: 11.12 ng/mL
RT: 5.652 min Scan# 1166
Delta R.T. -0.020 min
Lab File: 2MBW01.D
Acq: 21 Aug 13 11:46 am

Tgt Ion:178 Resp: 957

Ion	Ratio	Lower	Upper
178	100		
176	18.6	0.0	49.2

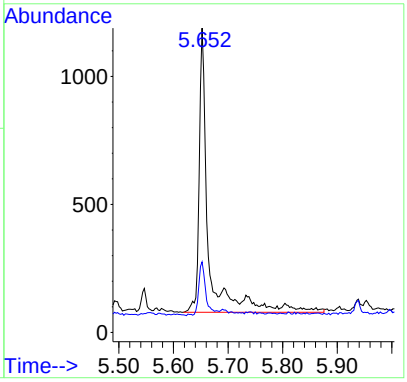


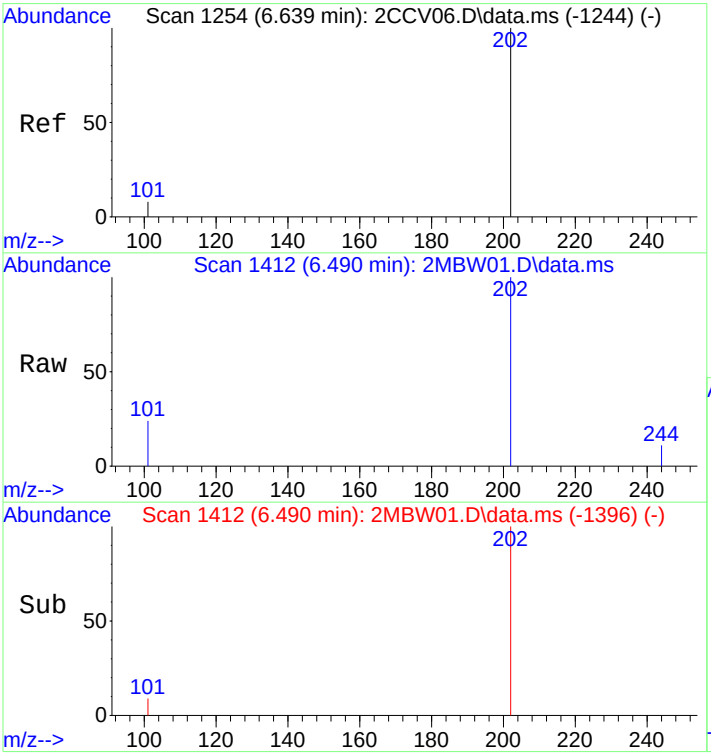


#14
Anthracene
Concen: 13.15 ng/mL
RT: 5.652 min Scan# 1166
Delta R.T. -0.060 min
Lab File: 2MBW01.D
Acq: 21 Aug 13 11:46 am

Tgt Ion:178 Resp: 1318

Ion	Ratio	Lower	Upper
178	100		
176	18.6	0.0	47.9

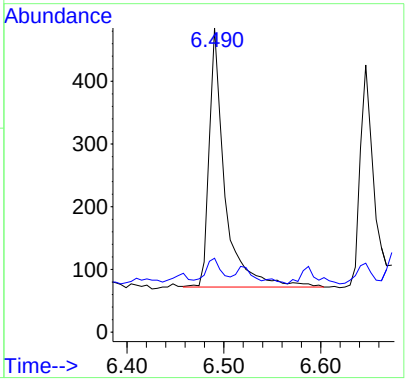


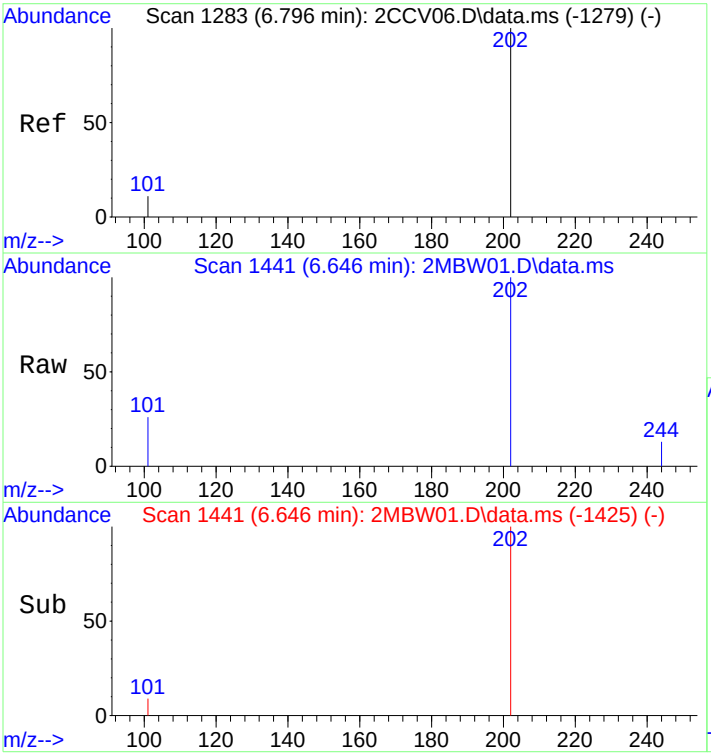


#15
Fluoranthene
Concen: 4.08 ng/mL
RT: 6.490 min Scan# 1412
Delta R.T. -0.016 min
Lab File: 2MBW01.D
Acq: 21 Aug 13 11:46 am

Tgt Ion:202 Resp: 465

Ion	Ratio	Lower	Upper
202	100		
101	7.5	0.0	37.5

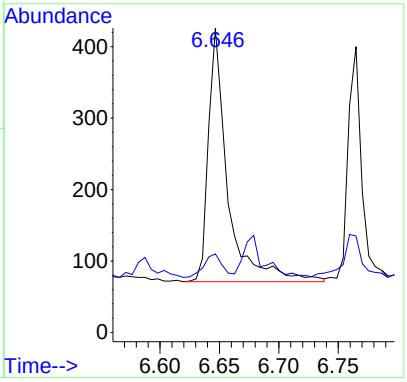


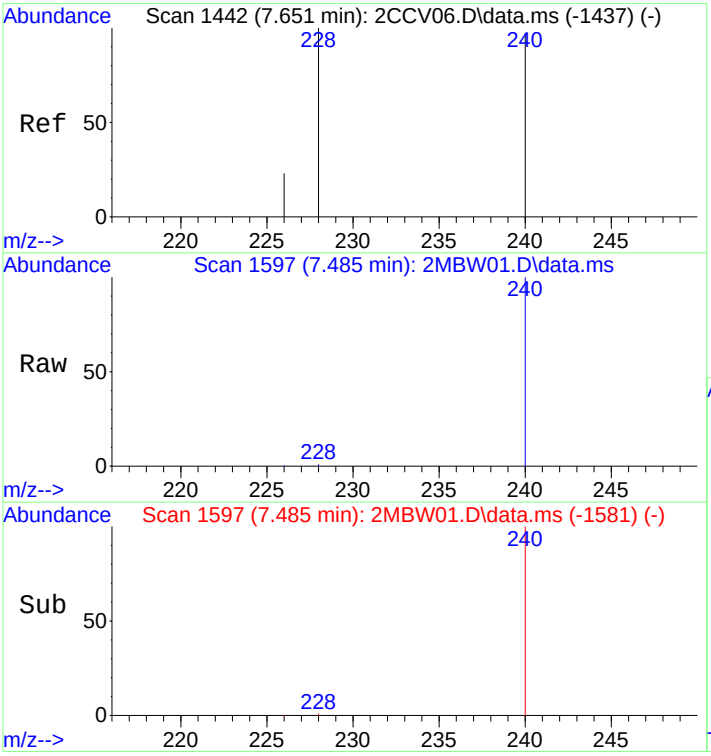


#17
Pyrene
Concen: 3.52 ng/mL
RT: 6.646 min Scan# 1441
Delta R.T. -0.016 min
Lab File: 2MBW01.D
Acq: 21 Aug 13 11:46 am

Tgt Ion:202 Resp: 403

Ion	Ratio	Lower	Upper
202	100		
101	9.3	0.0	38.8

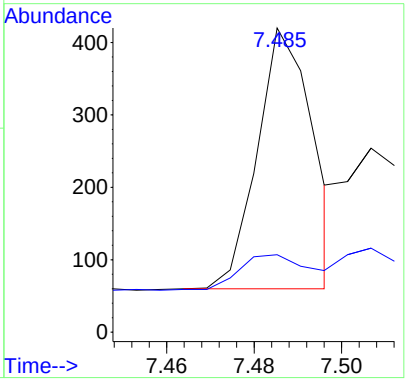


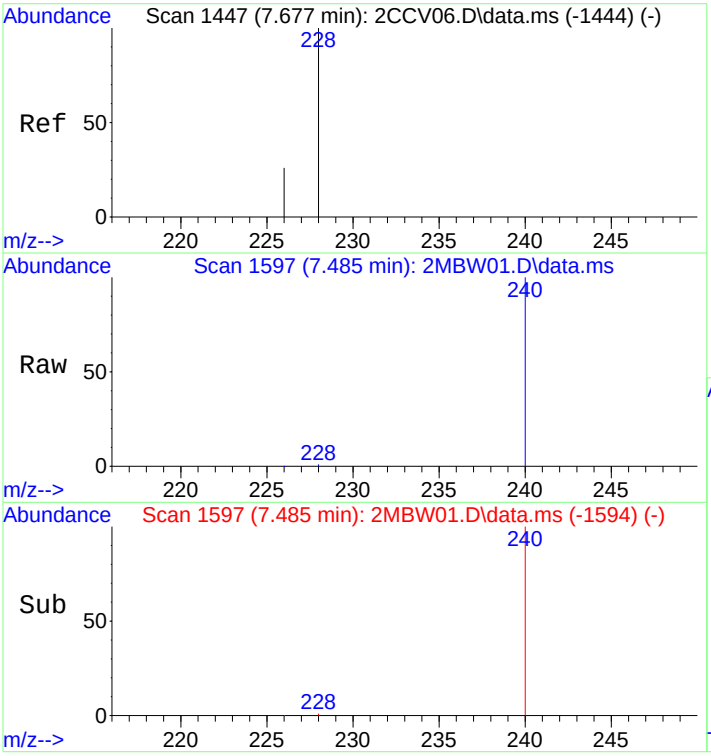


#19
B[a]anthracen
Concen: 4.52 ng/mL
RT: 7.485 min Scan# 1597
Delta R.T. -0.016 min
Lab File: 2MBW01.D
Acq: 21 Aug 13 11:46 am

Tgt Ion:228 Resp: 319

Ion	Ratio	Lower	Upper
228	100		
226	13.3	0.0	58.4

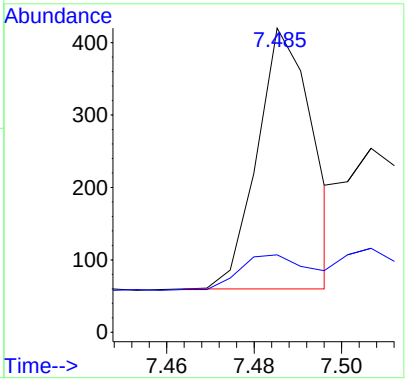




#20
Chrysene
Concen: 2.93 ng/mL
RT: 7.485 min Scan# 1597
Delta R.T. -0.043 min
Lab File: 2MBW01.D
Acq: 21 Aug 13 11:46 am

Tgt Ion:228 Resp: 319

Ion	Ratio	Lower	Upper
228	100		
226	13.3	0.0	57.2



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2LCSW01.D Vial: 6
Acq On : 21 Aug 2013 12:06 Operator: RPN
Sample : 96939,LCSW, Inst : SVMS2
Misc : 339738,500uL+5uL IS SVMS5791 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:25:11 2013

RPN
08/21/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:25:07 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

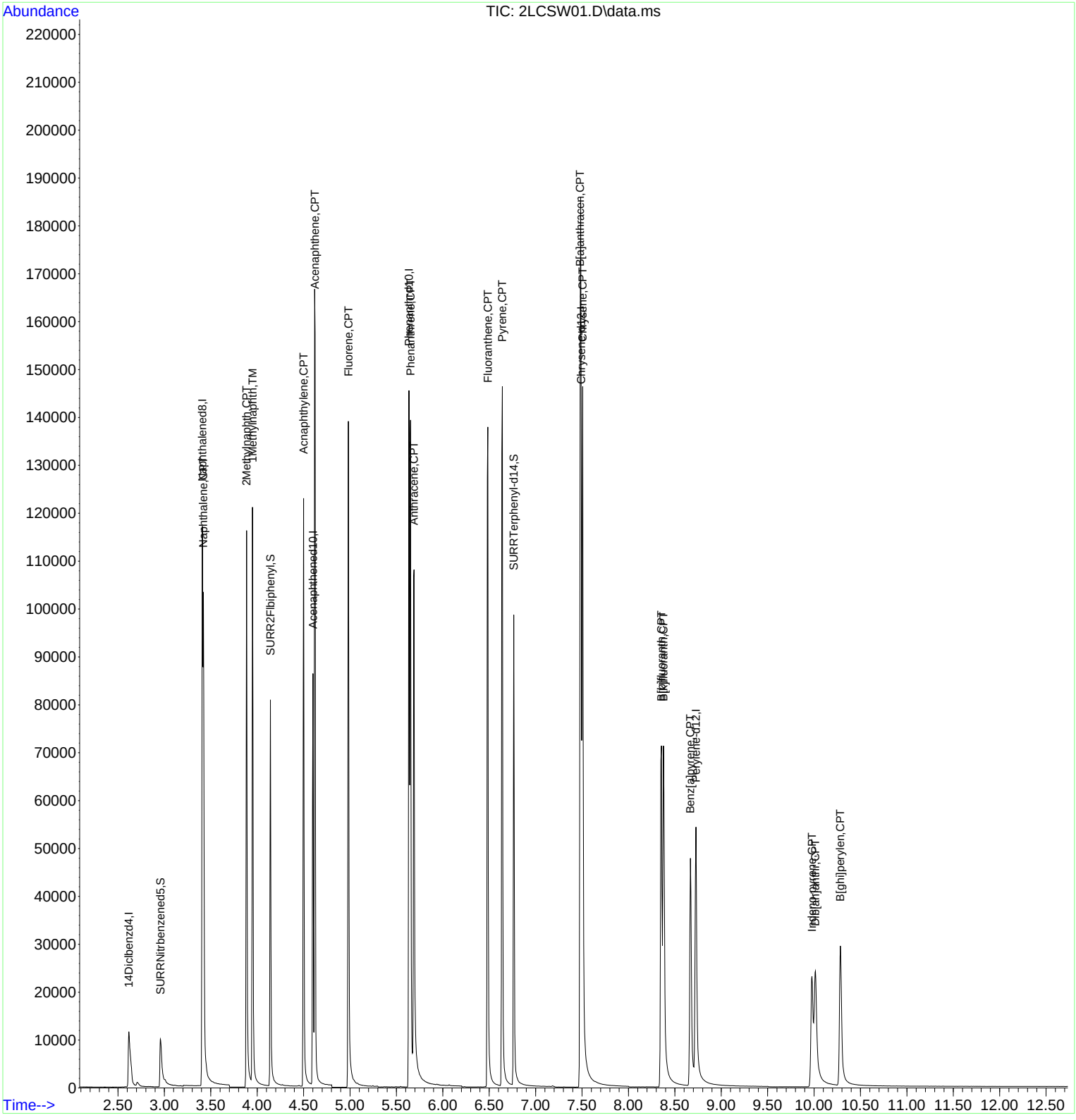
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.617	152	20713	1000.00	ng/mL	0.00
2) Naphthalened8	3.409	136	90618	1000.00	ng/mL	0.00
7) Acenaphthened10	4.601	164	54291	1000.00	ng/mL	0.00
12) Phenanthrd10	5.635	188	103994	1000.00	ng/mL	0.00
16) Chrysene-d12	7.491	240	96308	1000.00	ng/mL	0.00
21) Perylene-d12	8.727	264	70290	1000.00	ng/mL	0.00
System Monitoring Compounds						
3) SURRNitrbenzened5	2.958	82	27599	109.12	%REC	-0.01
Spiked Amount 100.000			Recovery = 109.12%			
8) SURR2Flbiphenyl	4.143	172	60072	96.61	%REC	0.00
Spiked Amount 100.000			Recovery = 96.61%			
18) SURRTerphenyl-d14	6.765	244	72571	112.87	ng/mL	0.00
Spiked Amount 100.000			Recovery = 112.87%			
Target Compounds						Qvalue
4) Naphthalene	3.420	128	65994	826.4897	ng/mL	98
5) 2Methylnaphth	3.885	142	46546	991.4764	ng/mL	100
6) 1Methylnaphth	3.950	142	47281	777.4099	ng/mL	100
9) Acnaphthylene	4.501	152	62832	895.3019	ng/mL	99
10) Acenaphthene	4.624	154	45298	857.7698	ng/mL	86
11) Fluorene	4.983	166	54966	947.7392	ng/mL	81
13) Phenanthrene	5.652	178	83153	938.8750	ng/mL	97
14) Anthracene	5.690	178	83834	813.3930	ng/mL	98
15) Fluoranthene	6.485	202	111474	950.7584	ng/mL	97
17) Pyrene	6.641	202	112317	913.1139	ng/mL	97
19) B[a]anthracen	7.480	228	82197	1083.3440	ng/mL	98
20) Chrysene	7.507	228	100745	859.9739	ng/mL	98
22) B[b]fluoranth	8.355	252	75485	1129.0262	ng/mL	97
23) B[k]fluoranth	8.377	252	85081	882.4838	ng/mL	100
24) Benz[a]pyrene	8.668	252	63942	890.7041	ng/mL	98
25) Indeno-pyrene	9.977	276	47051	906.2884	ng/mL	99
26) Dib[ah]anthr	10.015	278	30941	831.2500	ng/mL	99
27) B[ghi]perylen	10.283	276	43097	841.4508	ng/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2LCSW01.D Vial: 6
Acq On : 21 Aug 2013 12:06 Operator: RPN
Sample : 96939,LCSW, Inst : SVMS2
Misc : 339738,500uL+5uL IS SVMS5791 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 12:25:11 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:25:07 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2MRL02.D Vial: 3
Acq On : 21 Aug 2013 12:46 Operator: RPN
Sample : MRL 50ng/mL SVMS5715 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 13:02:30 2013

RPN
08/21/13

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:44:28 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M

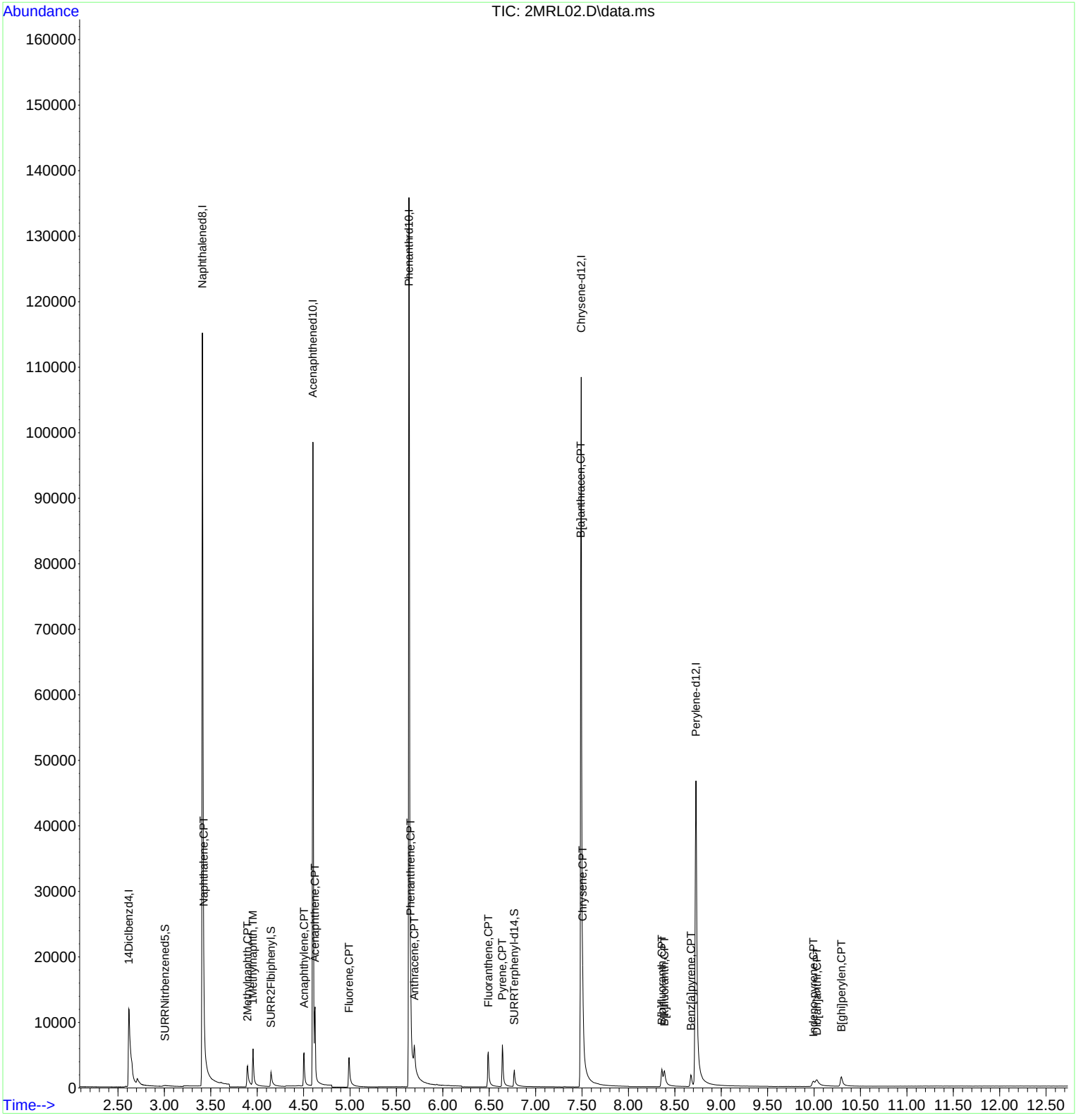
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.617	152	21661	1000.00	ng/mL	0.00
2) Naphthalened8	3.409	136	100700	1000.00	ng/mL	-0.01
7) Acenaphthened10	4.601	164	61677	1000.00	ng/mL	-0.02
12) Phenanthrd10	5.635	188	112972	1000.00	ng/mL	-0.02
16) Chrysene-d12	7.491	240	99526	1000.00	ng/mL	-0.02
21) Perylene-d12	8.727	264	69122	1000.00	ng/mL	-0.03
System Monitoring Compounds						
3) SURRNitrbenzened5	3.008	82	1029	3.66	%REC	0.02
Spiked Amount 100.000			Recovery = 3.66%			
8) SURR2Flbiphenyl	4.148	172	3354	4.75	%REC	-0.02
Spiked Amount 100.000			Recovery = 4.75%			
18) SURRTerphenyl-d14	6.770	244	3196	4.81	ng/mL	-0.02
Spiked Amount 100.000			Recovery = 4.81%			
Target Compounds						Qvalue
4) Naphthalene	3.424	128	4501	50.7256	ng/mL	99
5) 2Methylnaphth	3.896	142	2487	47.6717	ng/mL	100
6) 1Methylnaphth	3.955	142	3346	49.5079	ng/mL	100
9) Acnaphthylene	4.505	152	3692	46.3079	ng/mL	99
10) Acenaphthene	4.624	154	2954	49.2387	ng/mL	90
11) Fluorene	4.990	166	3279	49.7669	ng/mL	83
13) Phenanthrene	5.652	178	5125	53.2674	ng/mL	99
14) Anthracene	5.692	178	5049	45.0944	ng/mL	99
15) Fluoranthene	6.490	202	5902	46.3376	ng/mL	99
17) Pyrene	6.641	202	5958	46.8712	ng/mL	95
19) B[a]anthracen	7.485	228	4023	51.3081	ng/mL	87
20) Chrysene	7.507	228	5757	47.5536	ng/mL	97
22) B[b]fluoranth	8.361	252	2867	43.6062	ng/mL	100
23) B[k]fluoranth	8.388	252	4114	43.3926	ng/mL	99
24) Benz[a]pyrene	8.673	252	3155	44.6914	ng/mL	99
25) Indeno-pyrene	9.992	276	2288	44.8158	ng/mL	96
26) Dib[ah]anthr	10.030	278	1720	46.9897	ng/mL	100
27) B[ghi]perylen	10.294	276	2451	48.6634	ng/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S082113\2MRL02.D Vial: 3
Acq On : 21 Aug 2013 12:46 Operator: RPN
Sample : MRL 50ng/mL SVMS5715 Inst : SVMS2
Misc : 500uL+5uL IS SVMS5788 Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 21 13:02:30 2013

Quant Method : C:\INSTARCH\METHOD\2P080713.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Aug 21 12:44:28 2013
Response via : Initial Calibration
DataAcq Meth:2P080713.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MRL06.D Vial: 3
Acq On : 22 Aug 2013 13:16 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:27:43 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	165315	20.00	ug/mL	0.00
21) Naphthalened8	4.093	136	566963	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	431194	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	691437	20.00	ug/mL	0.00
75) Chrysene-d12	8.716	240	315104	20.00	ug/mL	0.00
86) Perylene-d12	9.472	264	305630	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.889	112	9084	2.02	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery =	2.02%#		
7) SURRPhenol-d5	2.474	99	11742	2.44	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery =	2.44%#		
22) SURRNitrbenzened5	3.267	82	7809	4.75	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery =	4.75%#		
44) SURR2Flbiphenyl	5.696	172	33295	5.87	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery =	5.87%#		
62) SURR246Tribrphenl	6.855	330	3629	2.54	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery =	2.54%#		
78) SURRTerphenyl-d14	8.214	244	19106	6.08	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery =	6.08%#		
Target Compounds						Qvalue
2) Ntrsdimeth	1.306	74	4079	0.6777	ug/mL	93
3) Pyridine	1.351	79	7465	0.6610	ug/mL#	61
5) Aniline	2.471	93	14906	1.0078	ug/mL#	1
6) bis2Clethletr	2.536	93	10912	1.0908	ug/mL	87
8) Phenol	2.482	94	60590	4.2945	ug/mL	95
9) 2-Cl-phenol	2.551	128	63193	5.2557	ug/mL	95
10) 13Diclbenz	2.667	146	14908	1.0636	ug/mL	94
11) 14Diclbenz	2.735	146	14285	1.0774	ug/mL	91
12) 12Diclbenz	2.863	146	13827	1.0532	ug/mL	95
13) Benzyl alcoho	2.903	108	1317	0.2273	ug/mL#	49
14) bis2clispreth	3.018	45	18005	1.0697	ug/mL#	72
15) 2Methylphenol	3.008	107	37138	4.6438	ug/mL	88
16) Ntrspyrrol	3.110	100	3663	0.8508	ug/mL	87
17) Acetophenone	3.125	105	12842	0.9988	ug/mL	63
18) Hexaclethane	3.179	117	5501	1.1009	ug/mL	86
19) N-Ntrsdinprop	3.147	70	5637	0.9662	ug/mL	92
20) 3&4Methylphenol	3.181	107	87466	9.0645	ug/mL	96
23) Nitrobenzene	3.287	77	7699	0.9627	ug/mL	92
24) Isophorone	3.579	82	15103	0.9871	ug/mL	96
25) 2-Nitrophenol	3.650	139	28548	5.0572	ug/mL	94
26) 24Dimthpheno	3.787	122	44351	5.6063	ug/mL	98
27) bis2clethoxym	3.906	93	9728	0.9029	ug/mL	100
28) 24Diclphenol	3.971	162	46619	5.2123	ug/mL	94
29) 124Triclbenz	4.051	180	12784	1.2717	ug/mL	84
30) Benzoic acid	3.974	122	19740	4.4602	ug/mL	88
31) Naphthalene	4.122	128	30105	1.1036	ug/mL	98
32) 4-Cl-aniline	4.273	127	12646	1.0980	ug/mL	93
33) 26Diclphenol	4.255	162	42791	5.8554	ug/mL	90
34) Hexaclprop	4.247	213	6323	1.0451	ug/mL	92
35) Hexaclbutdien	4.335	225	5908	1.1038	ug/mL	94
36) 4Cl3methylphe	5.068	107	44017	4.4206	ug/mL	93
37) 2Methylnaphth	5.122	142	35640	1.2880	ug/mL	90
38) 1Methylnaphth	5.270	141	27145	1.1069	ug/mL	93
40) Hxclcycpentdi	5.392	237	5152	0.8172	ug/mL#	64

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MRL06.D Vial: 3
Acq On : 22 Aug 2013 13:16 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:27:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

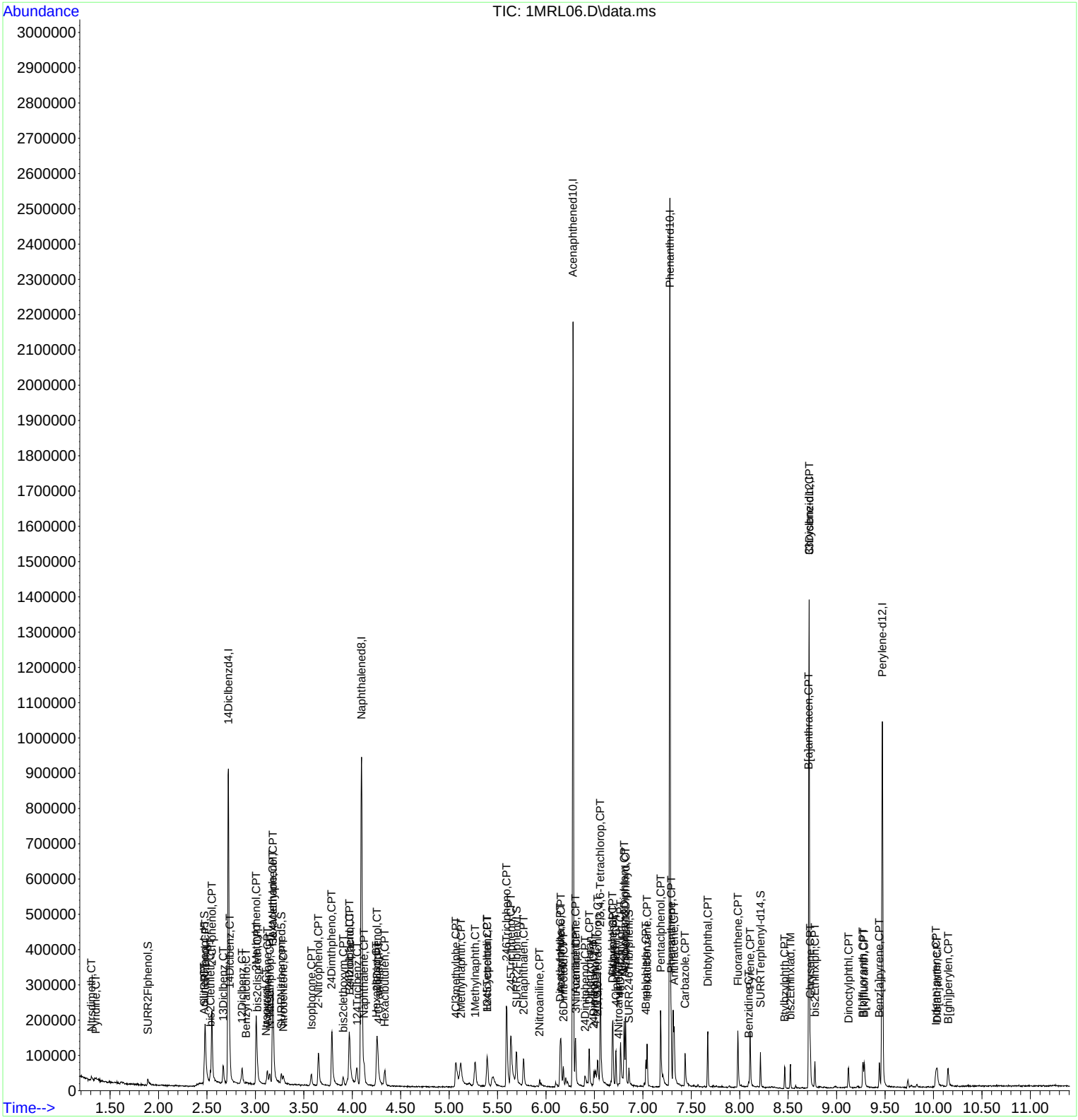
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.392	216	17278	1.3027 ug/mL	96
42) 246Triclpheno	5.591	196	46246	5.4518 ug/mL	97
43) 245Triclpheno	5.639	196	50005	5.3916 ug/mL	97
45) 2Clnaphthalen	5.770	162	30120	1.1774 ug/mL	98
46) 2Nitroaniline	5.932	65	4235	0.8388 ug/mL#	77
47) Acnaphthylene	6.154	152	47310	0.8663 ug/mL	98
48) Dimethylphtha	6.145	163	33997	0.9461 ug/mL	98
49) 26Dinitrotolu	6.179	165	6759	1.0736 ug/mL	83
50) Acenaphthene	6.304	154	25776	0.9428 ug/mL	97
51) 3Nitroaniline	6.310	138	5541	0.9468 ug/mL	84
52) 24Dinitphenol	6.404	184	13423	5.5500 ug/mL	87
53) Dibenzofuran	6.446	168	39440	1.1971 ug/mL	98
54) 24Dinitrotolu	6.492	165	8687	1.0996 ug/mL	94
55) 4-Nitrophenol	6.512	139	19375	4.3155 ug/mL	88
56) 2,3,5,6-Tetrachlorop	6.534	232	7028	1.1360 ug/mL	91
57) 2,3,4,6-Tetrachlorop	6.560	232	38703	5.2501 ug/mL	96
58) Fluorene	6.691	166	33161	0.9811 ug/mL	98
59) 4Clphlphlethr	6.722	204	15312	0.9568 ug/mL	93
60) Diethylphthal	6.685	149	32156	0.9378 ug/mL	98
61) 4Nitroaniline	6.750	138	4915	0.8467 ug/mL	70
64) 46Dinit2mylph	6.770	198	22779	4.8066 ug/mL	97
65) Ntrsdiphlam&Diphlam	6.807	169	38206	1.7312 ug/mL	98
66) Azobenz&12Diphlhyd	6.821	182	13304	1.7214 ug/mL	98
67) 4Brphlphlethr	7.032	248	8833	1.1433 ug/mL	90
68) Hexaclbenzene	7.043	284	10152	1.2485 ug/mL	97
69) Pentaclphenol	7.185	266	26535	5.1834 ug/mL	97
70) Phenanthrene	7.293	178	44600	1.2589 ug/mL	98
71) Anthracene	7.324	178	46461	1.2625 ug/mL	99
72) Carbazole	7.435	167	40628	1.1689 ug/mL	97
73) Dinbtylphthal	7.671	149	60852	1.2881 ug/mL	99
74) Fluoranthene	7.981	202	49114	1.1793 ug/mL	93
76) Benzidine	8.094	184	9593	0.8264 ug/mL	96
77) Pyrene	8.108	202	48193	1.2151 ug/mL	97
79) Btylbzylphth	8.464	149	11437	1.0297 ug/mL	98
80) bis2Ethlhxlad	8.523	129	9237	1.0216 ug/mL	97
81) 33Diclbnzidin	8.716	252	5723	1.1941 ug/mL	90
82) B[a]anthracen	8.711	228	20208	1.1294 ug/mL	95
83) Chrysene	8.728	228	19942	1.2012 ug/mL	95
84) bis2Ethlhxlph	8.776	149	15965	1.0785 ug/mL	91
85) Dinoctylphthl	9.123	149	25456	0.9253 ug/mL	100
87) B[b]fluoranth	9.271	252	18252	1.0497 ug/mL	93
88) B[k]fluoranth	9.285	252	18774	1.1705 ug/mL	98
89) Benz[a]pyrene	9.441	252	19754	1.1621 ug/mL	98
90) Indeno-pyrene	10.026	276	20861	1.1158 ug/mL	94
91) Dib[ah]anthr	10.038	278	15847	1.1405 ug/mL	96
92) B[ghi]perylen	10.151	276	19609	1.1742 ug/mL	96

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MRL06.D Vial: 3
Acq On : 22 Aug 2013 13:16 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:27:43 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MDL06.D Vial: 4
Acq On : 22 Aug 2013 13:34 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:46:07 2013

RPN
08/30/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.718	152	167357	20.00	ug/mL	0.00
21) Naphthalened8	4.096	136	580128	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	440083	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	684509	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	325388	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	309191	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.900	112	3952	0.87	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 0.87%#			
7) SURRPhenol-d5	2.477	99	4703	0.97	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 0.97%#			
22) SURRNitrbenzened5	3.270	82	3875	2.30	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 2.30%#			
44) SURR2Flbiphenyl	5.696	172	17036	2.94	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 2.94%#			
62) SURR246Tribrphenl	6.858	330	1854	1.27	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 1.27%#			
78) SURRTerphenyl-d14	8.214	244	9682	2.98	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 2.98%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.317	74	1715	0.2815	ug/mL	81
3) Pyridine	1.383	79	976	0.0854	ug/mL#	63
5) Aniline	2.474	93	6422	0.4289	ug/mL#	1
6) bis2Clethletr	2.536	93	5143	0.5078	ug/mL	79
8) Phenol	2.485	94	30788	2.1556	ug/mL	97
9) 2-Cl-phenol	2.553	128	30600	2.5139	ug/mL	93
10) 13Diclbenz	2.670	146	7153	0.5041	ug/mL	94
11) 14Diclbenz	2.735	146	7368	0.5489	ug/mL	88
12) 12Diclbenz	2.863	146	7400	0.5568	ug/mL	94
13) Benzyl alcoho	0.000		0	N.D.		
14) bis2clispreth	3.020	45	9775	0.5737	ug/mL#	73
15) 2Methylphenol	3.011	107	20203	2.4954	ug/mL#	88
16) Ntrspyrrol	3.113	100	2105	0.4830	ug/mL#	60
17) Acetophenone	3.125	105	6681	0.5133	ug/mL	76
18) Hexaclethane	3.181	117	3046	0.6021	ug/mL	78
19) N-Ntrsdinprop	3.147	70	2941	0.4979	ug/mL	94
20) 3&4Methylphenol	3.181	107	44962	4.6028	ug/mL	97
23) Nitrobenzene	3.287	77	1857	0.2269	ug/mL	82
24) Isophorone	3.576	82	7479	0.4777	ug/mL	86
25) 2-Nitrophenol	3.650	139	13001	2.2508	ug/mL	94
26) 24Dimthpheno	3.790	122	22113	2.7318	ug/mL	96
27) bis2clethoxym	3.909	93	4970	0.4508	ug/mL	97
28) 24Diclphenol	3.977	162	24005	2.6230	ug/mL	95
29) 124Triclbenz	4.048	180	6569	0.6386	ug/mL	92
30) Benzoic acid	3.951	122	7398	1.6336	ug/mL	97
31) Naphthalene	4.119	128	9296	0.3330	ug/mL	100
32) 4-Cl-aniline	4.275	127	5360	0.4548	ug/mL	86
33) 26Diclphenol	4.256	162	21201	2.8353	ug/mL	89
34) Hexaclprop	4.247	213	3120	0.5040	ug/mL	82
35) Hexaclbutdien	4.335	225	3331	0.6082	ug/mL	96
36) 4Cl3methylphe	5.074	107	21290	2.0896	ug/mL	96
37) 2Methylnaphth	5.122	142	18926	0.6684	ug/mL	96
38) 1Methylnaphth	5.273	141	13356	0.5322	ug/mL	99
40) Hxclcycpentdi	5.392	237	1665	0.2588	ug/mL	65

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MDL06.D Vial: 4
Acq On : 22 Aug 2013 13:34 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:46:07 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

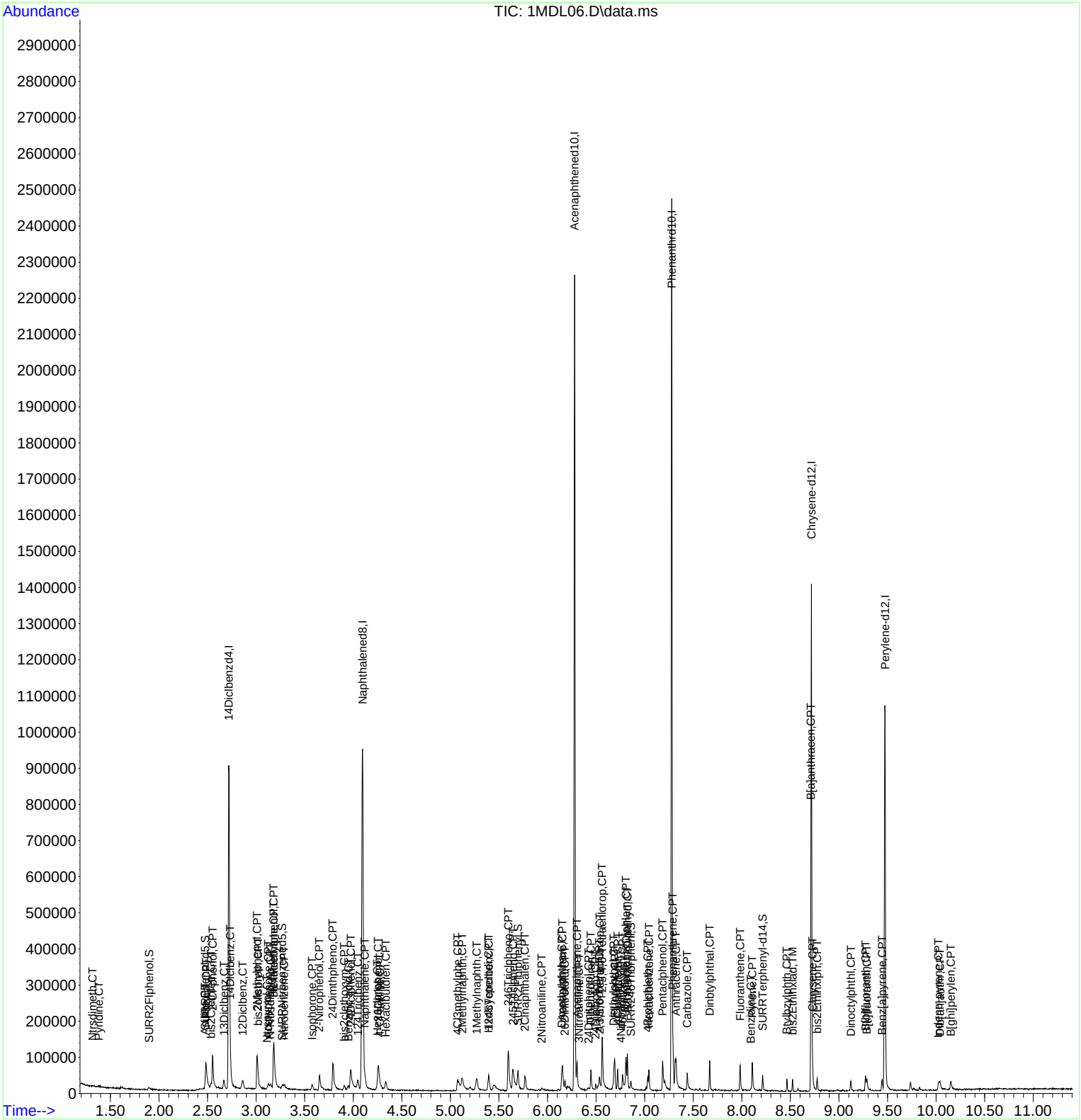
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.395	216	8237	0.6085 ug/mL	97
42) 246Triclpheno	5.597	196	23017	2.6586 ug/mL	92
43) 245Triclpheno	5.645	196	22211	2.3464 ug/mL	98
45) 2Clnaphthalen	5.767	162	14606	0.5594 ug/mL	99
46) 2Nitroaniline	5.940	65	1358	0.2635 ug/mL#	66
47) Acnaphthylene	6.154	152	24336	0.2870 ug/mL	92
48) Dimethylphtha	6.145	163	16976	0.3282 ug/mL	99
49) 26Dinitrotolu	6.179	165	3054	0.4753 ug/mL#	78
50) Acenaphthene	6.304	154	13506	0.3955 ug/mL	99
51) 3Nitroaniline	6.324	138	2685	0.4495 ug/mL	87
52) 24Dinitphenol	6.424	184	3869	3.5739 ug/mL	87
53) Dibenzofuran	6.446	168	20389	0.6064 ug/mL	99
54) 24Dinitrotolu	6.495	165	3834	0.4755 ug/mL	97
55) 4-Nitrophenol	6.534	139	9494	2.0719 ug/mL	78
56) 2,3,5,6-Tetrachlorop	6.537	232	3206	0.5078 ug/mL	92
57) 2,3,4,6-Tetrachlorop	6.563	232	18860	2.5067 ug/mL	97
58) Fluorene	6.693	166	16030	0.3414 ug/mL	98
59) 4Clphlphlethr	6.722	204	8198	0.4333 ug/mL	86
60) Diethylphthal	6.682	149	16823	0.3729 ug/mL	98
61) 4Nitroaniline	6.756	138	2233	0.3769 ug/mL	79
64) 46Dinit2mylph	6.773	198	9820	2.0931 ug/mL	89
65) Ntrsdiphlam&Diphlam	6.807	169	19571	0.6059 ug/mL	89
66) Azobenz&12Diphlhyd	6.824	182	7819	0.7630 ug/mL#	56
67) 4Brphlphlethr	7.032	248	5166	0.6754 ug/mL	94
68) Hexaclbenzene	7.046	284	5424	0.6738 ug/mL	83
69) Pentaclphenol	7.185	266	9898	1.9531 ug/mL	89
70) Phenanthrene	7.290	178	22783	0.6496 ug/mL	95
71) Anthracene	7.324	178	22623	0.6210 ug/mL	98
72) Carbazole	7.438	167	20780	0.6039 ug/mL	93
73) Dinbtylphthal	7.671	149	32305	0.6907 ug/mL	99
74) Fluoranthene	7.983	202	24461	0.5933 ug/mL	96
76) Benzidine	8.094	184	5316	0.4435 ug/mL	96
77) Pyrene	8.108	202	24543	0.5992 ug/mL	98
79) Btylbzylphth	8.464	149	5731	0.4997 ug/mL	95
80) bis2Ethlhxlad	8.523	129	4205	0.4503 ug/mL#	81
81) 33Diclbnzidin	0.000		0	N.D.	
82) B[a]anthracen	8.711	228	9712	0.5256 ug/mL	97
83) Chrysene	8.728	228	9980	0.5822 ug/mL	97
84) bis2Ethlhxlph	8.776	149	7637	0.4996 ug/mL	98
85) Dinoctylphthl	9.123	149	11382	0.4006 ug/mL	95
87) B[b]fluoranth	9.273	252	7963	0.4527 ug/mL	94
88) B[k]fluoranth	9.288	252	9098	0.5607 ug/mL	94
89) Benz[a]pyrene	9.444	252	10895	0.6336 ug/mL	89
90) Indeno-pyrene	10.024	276	9381	0.4960 ug/mL	96
91) Dib[ah]anthr	10.041	278	6914	0.4919 ug/mL	89
92) B[ghi]perylen	10.152	276	8940	0.5292 ug/mL	80

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MDL06.D Vial: 4
Acq On : 22 Aug 2013 13:34 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 22 13:46:07 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Aug 22 13:11:36 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MBW01.D Vial: 5
Acq On : 22 Aug 2013 13:53 Operator: RPN
Sample : 97009,MBW, Inst : SVMS1
Misc : 340736,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:32:24 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

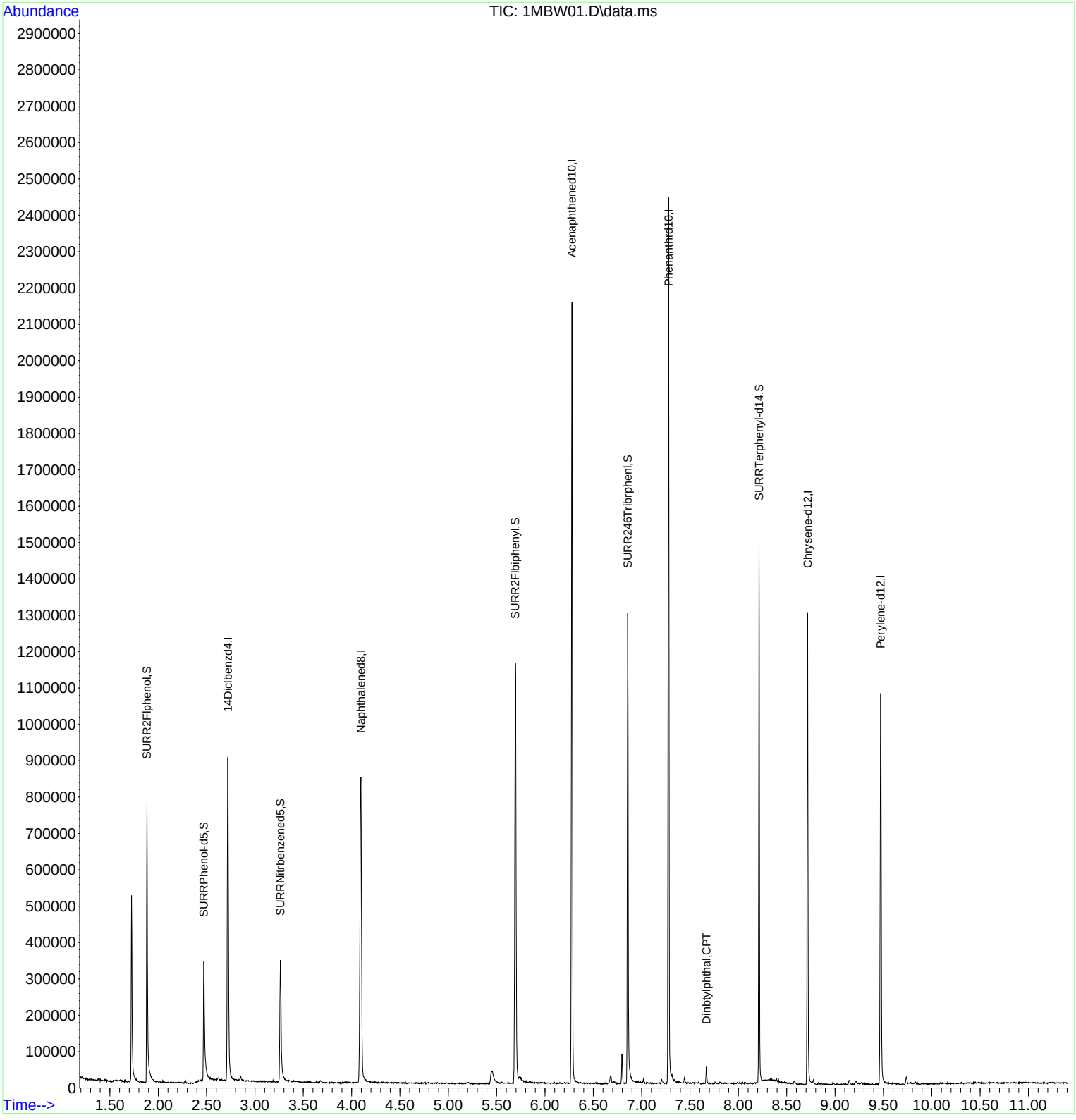
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	156938	20.00	ug/mL	0.00
21) Naphthalened8	4.096	136	531079	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	418157	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	673785	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	322151	20.00	ug/mL	0.00
86) Perylene-d12	9.472	264	304985	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.883	112	193948	45.34	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 45.34%			
7) SURRPhenol-d5	2.471	99	137084	30.04	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 30.04%			
22) SURRNitrbenzened5	3.264	82	118141	76.75	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 76.75%			
44) SURR2Flbiphenyl	5.693	172	426441	77.57	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 77.57%			
62) SURR246Tribrphenl	6.855	330	117938	85.23	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 85.23%			
78) SURRTerphenyl-d14	8.214	244	285024	88.72	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 88.72%			
Target Compounds						Qvalue
60) Diethylphthal	6.685	149	3226	Below Cal		89
65) Ntrsdiphlam&Diphlam	6.853	169	3281	Below Cal	#	19
73) Dinbtylphthal	7.671	149	16819	0.3653	ug/mL	96

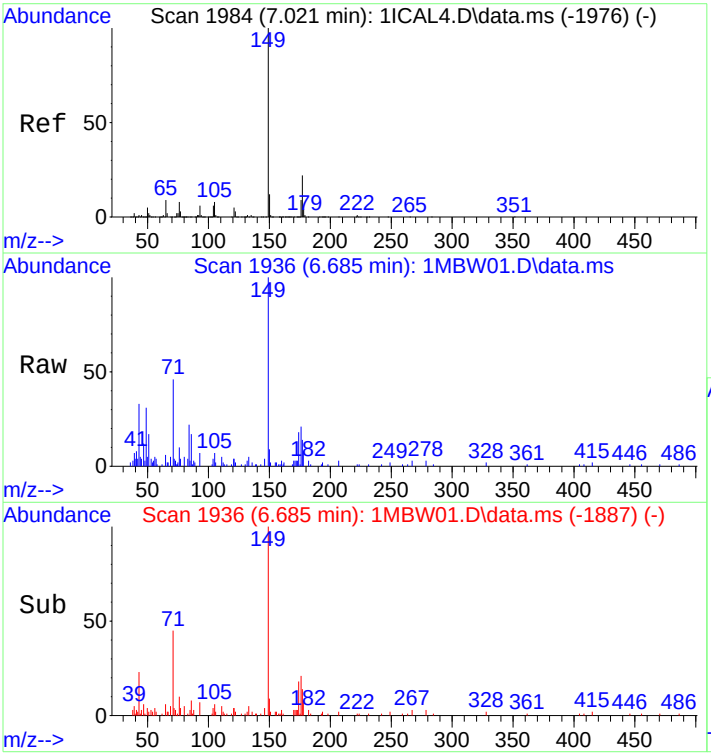
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MBW01.D Vial: 5
Acq On : 22 Aug 2013 13:53 Operator: RPN
Sample : 97009,MBW, Inst : SVMS1
Misc : 340736,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:32:24 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

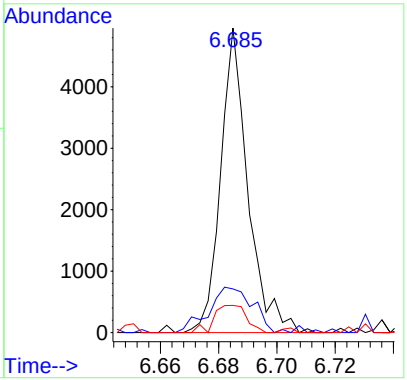


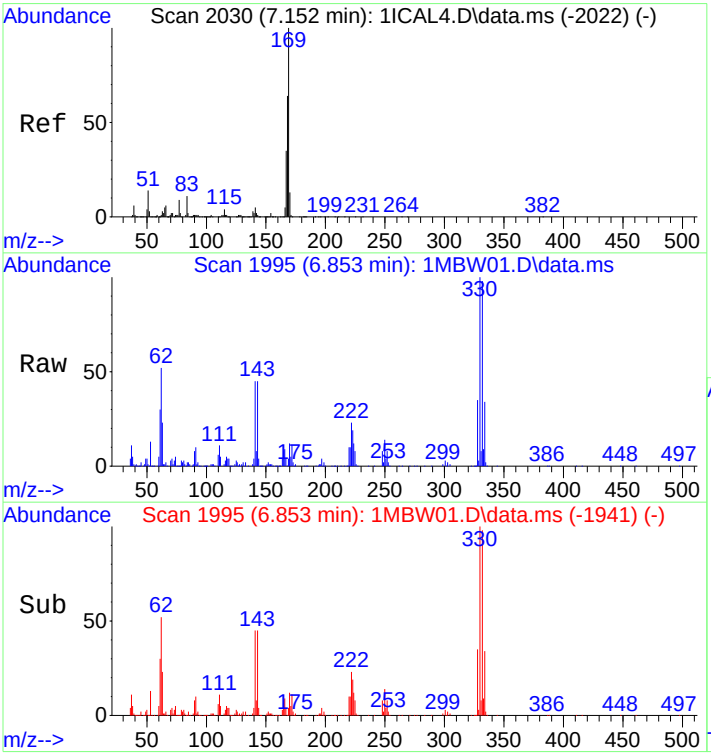


#60
Diethylphthal
Concen: Below ug/mL
RT: 6.685 min Scan# 1936
Delta R.T. -0.006 min
Lab File: 1MBW01.D
Acq: 22 Aug 13 1:53 pm

Tgt Ion:149 Resp: 3226

Ion	Ratio	Lower	Upper
149	100		
177	14.3	0.0	49.9
150	8.9	0.0	42.4

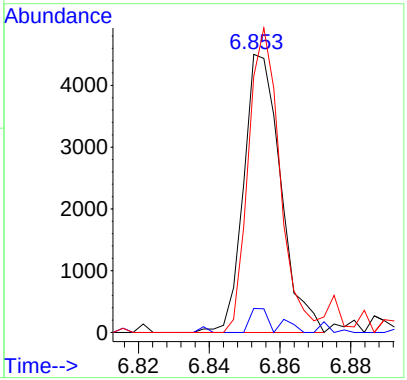


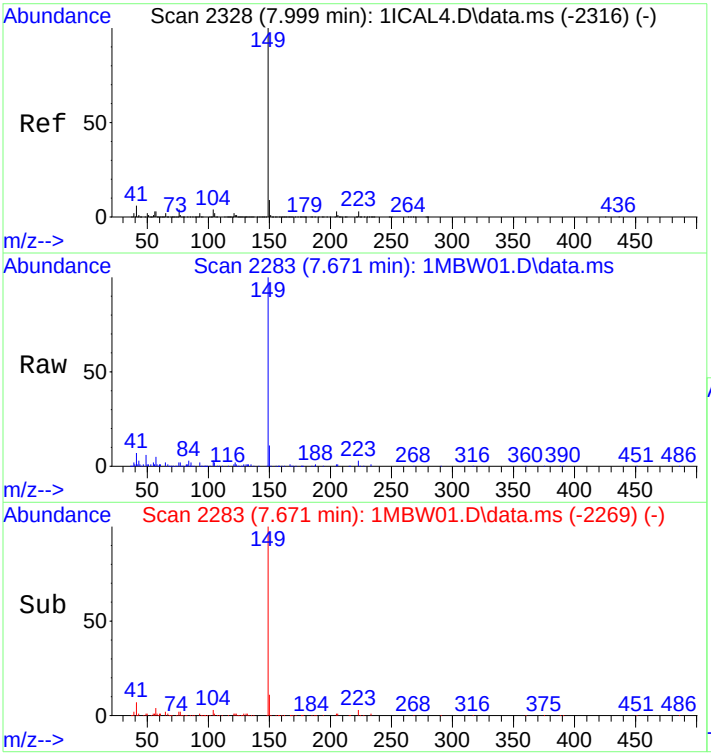


#65
Ntrsdiphlam&Diphlam
Concen: Below ug/mL
RT: 6.853 min Scan# 1995
Delta R.T. 0.040 min
Lab File: 1MBW01.D
Acq: 22 Aug 13 1:53 pm

Tgt Ion:169 Resp: 3281

Ion	Ratio	Lower	Upper
169	100		
168	8.6	34.5	94.5#
167	92.1	4.6	64.6#

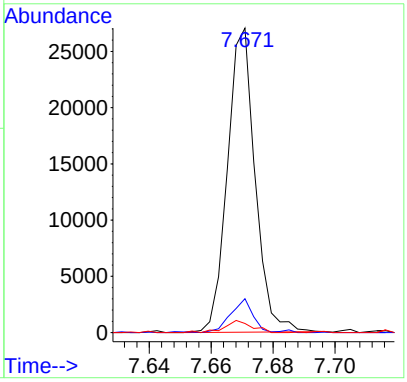




#73
Dinbtylphthal
Concen: 0.37 ug/mL
RT: 7.671 min Scan# 2283
Delta R.T. -0.000 min
Lab File: 1MBW01.D
Acq: 22 Aug 13 1:53 pm

Tgt Ion:149 Resp: 16819

Ion	Ratio	Lower	Upper
149	100		
150	11.0	0.0	39.4
104	3.0	0.0	33.5



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MBTV01.D Vial: 6
Acq On : 22 Aug 2013 14:11 Operator: RPN
Sample : 97009,MBTV, Inst : SVMS1
Misc : 2364,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:31:12 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

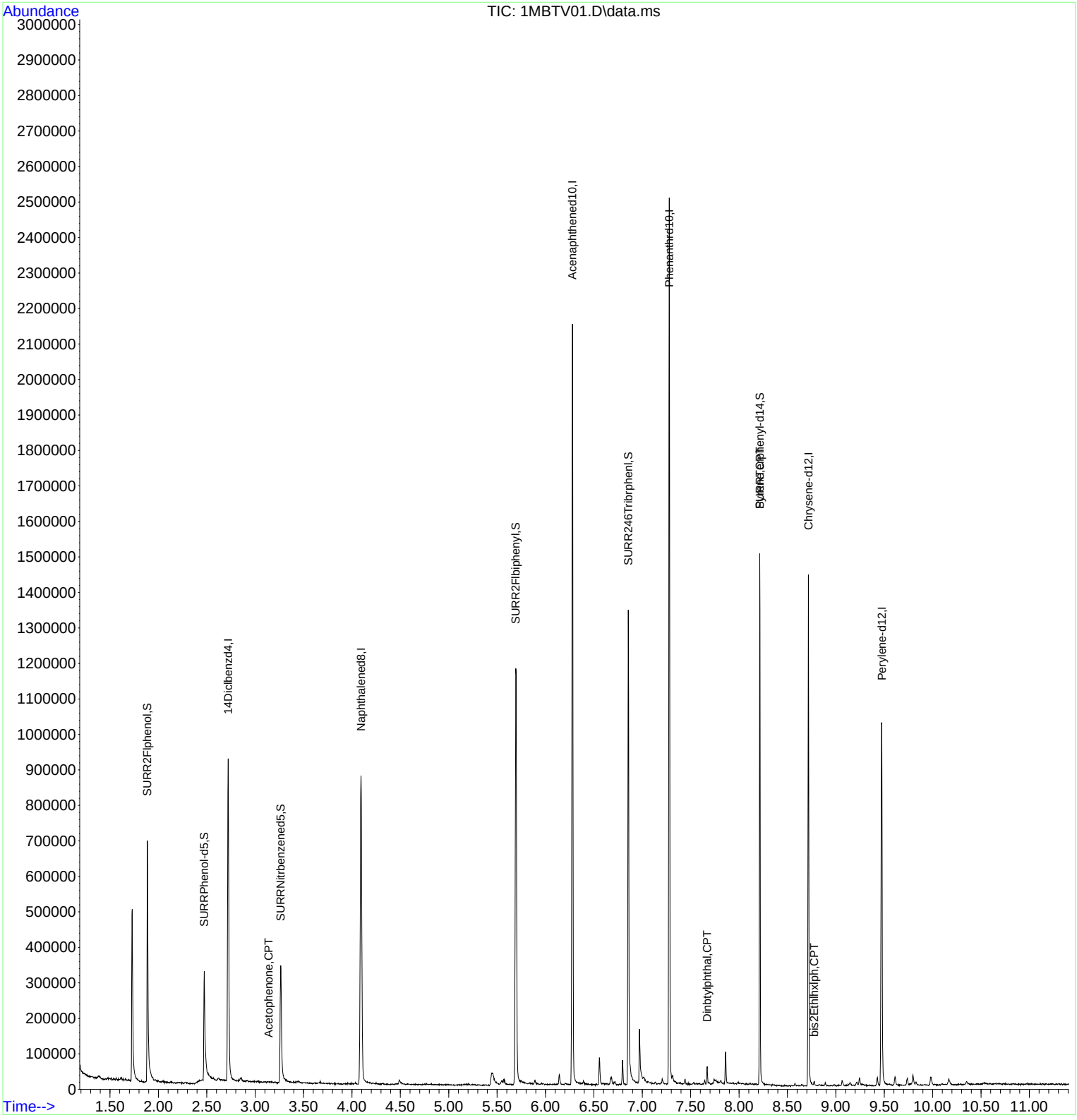
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	154761	20.00	ug/mL	0.00
21) Naphthalened8	4.094	136	548549	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	428143	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	675289	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	316394	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	301962	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.886	112	195275	46.29	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 46.29%			
7) SURRPhenol-d5	2.474	99	136164	30.26	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 30.26%			
22) SURRNitrbenzened5	3.264	82	123276	77.54	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 77.54%			
44) SUR2Flbiphenyl	5.693	172	440279	78.22	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 78.22%			
62) SURR246Tribrphenl	6.856	330	128956	91.02	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 91.02%			
78) SURRTerphenyl-d14	8.214	244	294243	93.26	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 93.26%			
Target Compounds						Qvalue
17) Acetophenone	3.139	105	721	0.0599	ug/mL#	16
60) Diethylphthal	6.685	149	4131	Below Cal		94
65) Ntrsdiphlam&Diphlam	6.856	169	3993	Below Cal #		32
73) Dinbtylphthal	7.671	149	16456	0.3567	ug/mL	99
77) Pyrene	8.214	202	853	0.0214	ug/mL	73
84) bis2Ethlhxlph	8.776	149	2797	0.1882	ug/mL	87

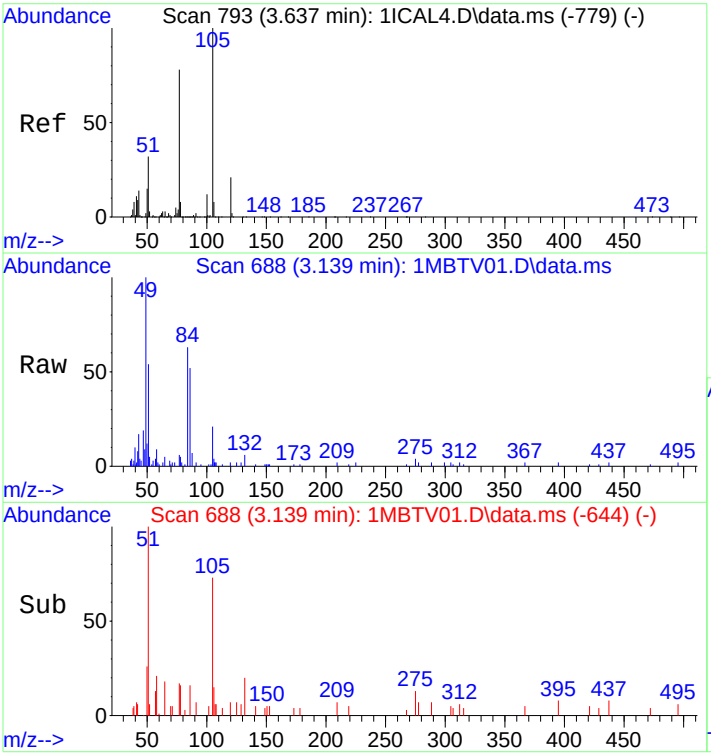
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MBTV01.D Vial: 6
Acq On : 22 Aug 2013 14:11 Operator: RPN
Sample : 97009,MBTV, Inst : SVMS1
Misc : 2364,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:31:12 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

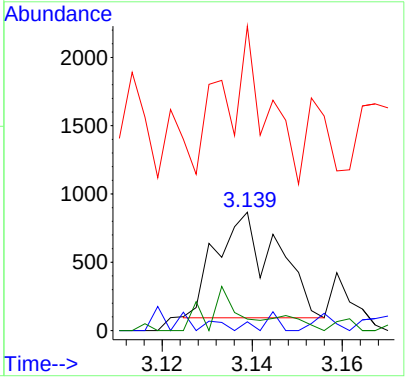


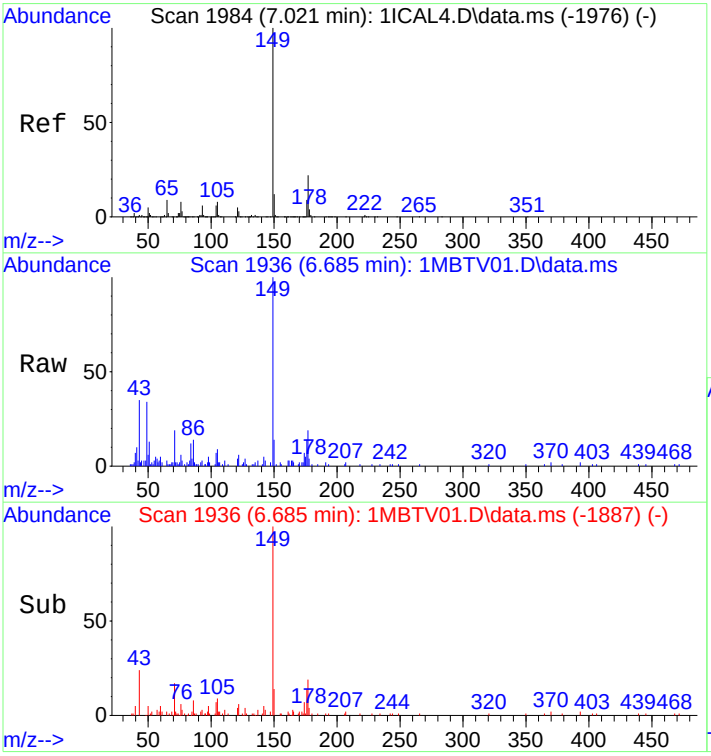


#17
Acetophenone
Concen: 0.06 ug/mL
RT: 3.139 min Scan# 688
Delta R.T. 0.011 min
Lab File: 1MBTV01.D
Acq: 22 Aug 13 2:11 pm

Tgt Ion:105 Resp: 721

Ion	Ratio	Lower	Upper
105	100		
71	0.0	0.0	30.0
51	96.6	0.0	57.8#
120	10.9	0.2	40.2

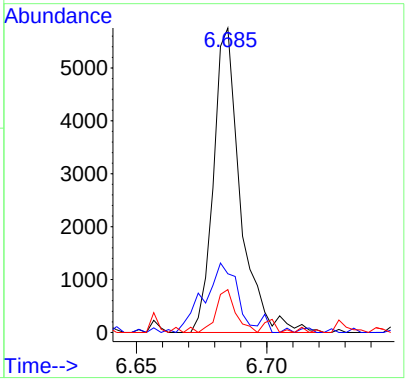


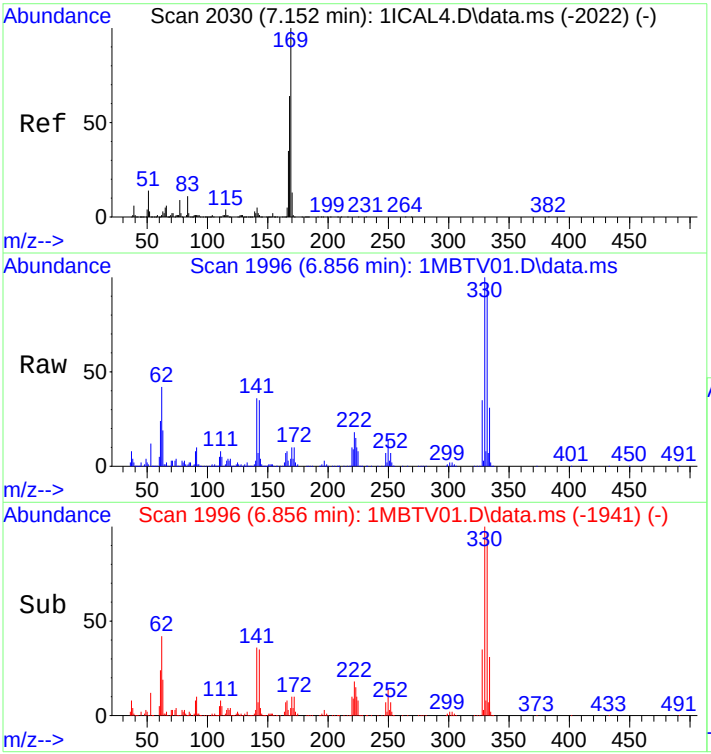


#60
Diethylphthal
Concen: Below ug/mL
RT: 6.685 min Scan# 1936
Delta R.T. -0.006 min
Lab File: 1MBTV01.D
Acq: 22 Aug 13 2:11 pm

Tgt Ion:149 Resp: 4131

Ion	Ratio	Lower	Upper
149	100		
177	22.9	0.0	49.9
150	14.1	0.0	42.4

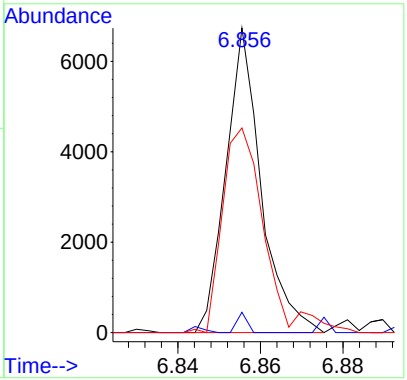


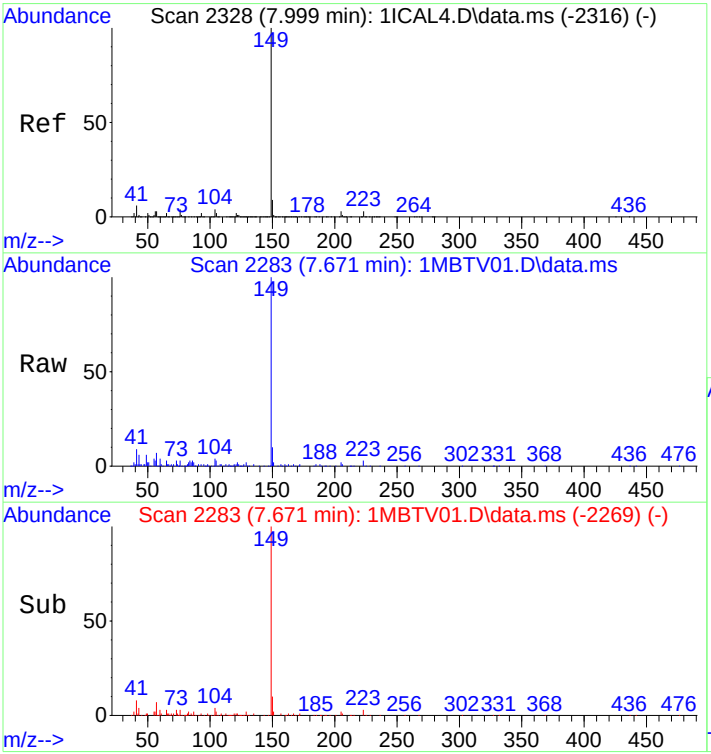


#65
Ntrsdiphlam&Diphlam
Concen: Below ug/mL
RT: 6.856 min Scan# 1996
Delta R.T. 0.043 min
Lab File: 1MBTV01.D
Acq: 22 Aug 13 2:11 pm

Tgt Ion:169 Resp: 3993

Ion	Ratio	Lower	Upper
169	100		
168	6.6	34.5	94.5#
167	67.2	4.6	64.6#

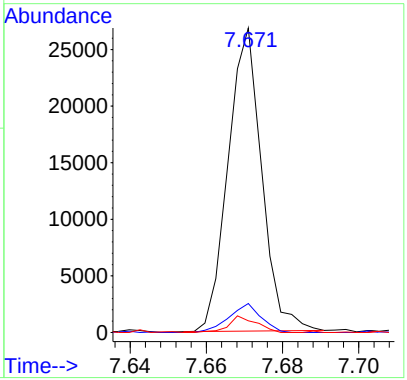


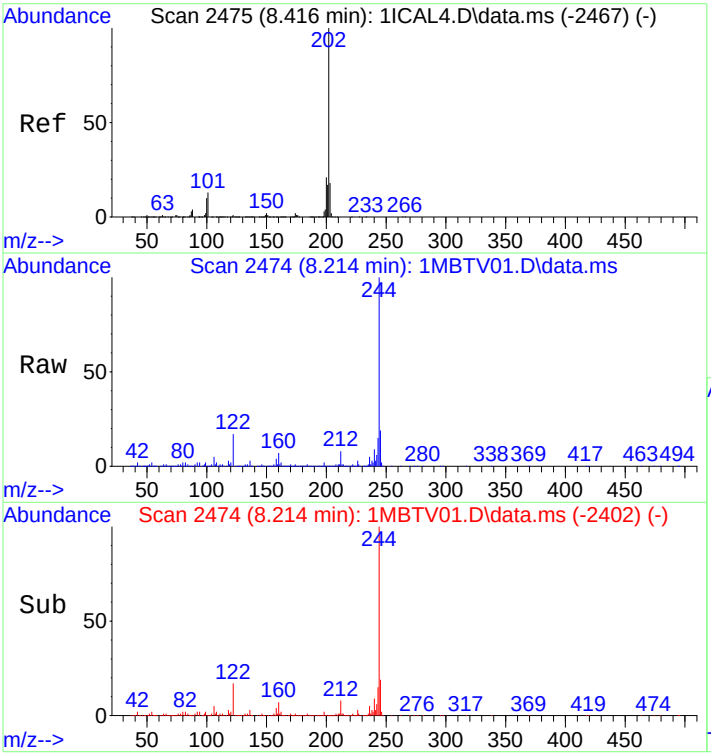


#73
Dinbtylphthal
Concen: 0.36 ug/mL
RT: 7.671 min Scan# 2283
Delta R.T. -0.000 min
Lab File: 1MBTV01.D
Acq: 22 Aug 13 2:11 pm

Tgt Ion:149 Resp: 16456

Ion	Ratio	Lower	Upper
149	100		
150	9.5	0.0	39.4
104	3.9	0.0	33.5

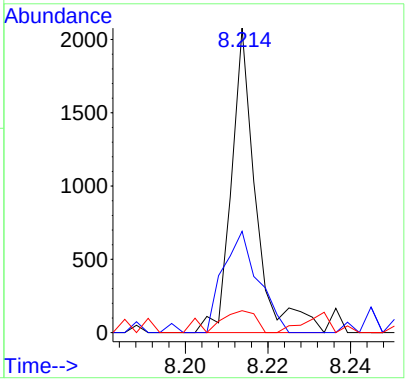


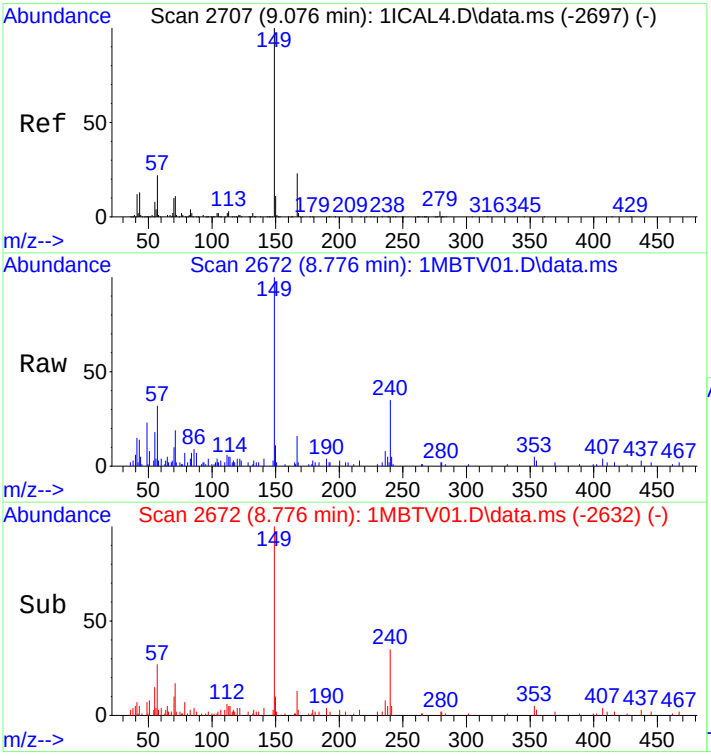


#77
Pyrene
Concen: 0.02 ug/mL
RT: 8.214 min Scan# 2474
Delta R.T. 0.105 min
Lab File: 1MBTV01.D
Acq: 22 Aug 13 2:11 pm

Tgt Ion:202 Resp: 853

Ion	Ratio	Lower	Upper
202	100		
200	33.3	0.0	50.3
203	7.2	0.0	48.5

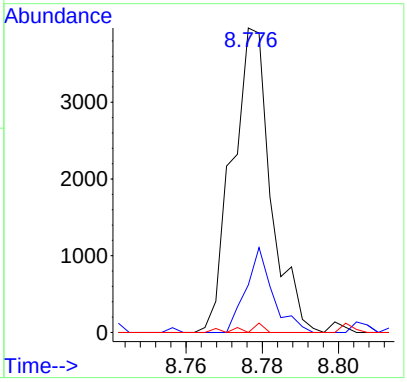




#84
bis2Ethlhxlph
Concen: 0.19 ug/mL
RT: 8.776 min Scan# 2672
Delta R.T. -0.000 min
Lab File: 1MBTV01.D
Acq: 22 Aug 13 2:11 pm

Tgt Ion:149 Resp: 2797

Ion	Ratio	Lower	Upper
149	100		
167	18.1	0.0	55.0
279	0.0	0.0	31.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MBTS01.D Vial: 7
Acq On : 22 Aug 2013 14:29 Operator: RPN
Sample : 97009,MBTS, Inst : SVMS1
Misc : 2364,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:30:06 2013

RPN 08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

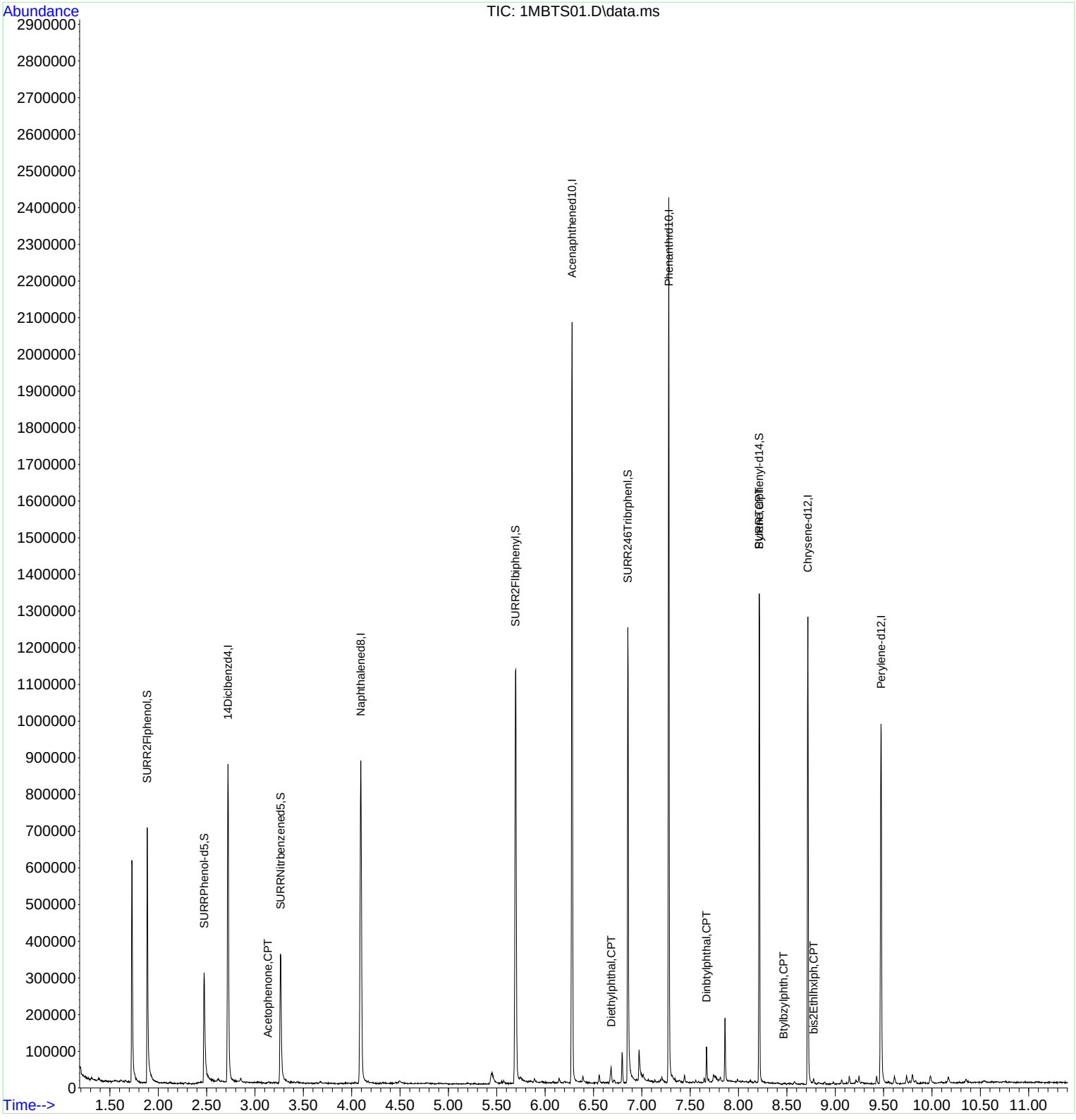
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	149688	20.00	ug/mL	0.00
21) Naphthalened8	4.094	136	534278	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	423705	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	653891	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	303793	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	287193	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.886	112	198620	48.68	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 48.68%			
7) SURRPhenol-d5	2.474	99	139044	31.95	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 31.95%			
22) SURRNitrbenzened5	3.264	82	126367	81.61	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 81.61%			
44) SUR2Flbiphenyl	5.693	172	434621	78.02	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 78.02%			
62) SURR246Tribrphenl	6.856	330	126008	89.87	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 89.87%			
78) SURRTerphenyl-d14	8.214	244	279592	92.29	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 92.29%			
Target Compounds						Qvalue
17) Acetophenone	3.133	105	1019	0.0875	ug/mL#	52
60) Diethylphthal	6.685	149	7737	0.0647	ug/mL	86
65) Ntrsdiphlam&Diphlam	6.856	169	3661	Below Cal	#	35
73) Dinbtylphthal	7.668	149	29509	0.6605	ug/mL	99
77) Pyrene	8.214	202	840	0.0220	ug/mL	83
79) Btylbzylphth	8.467	149	513	0.0479	ug/mL#	49
84) bis2Ethlhxlph	8.776	149	3133	0.2195	ug/mL	85

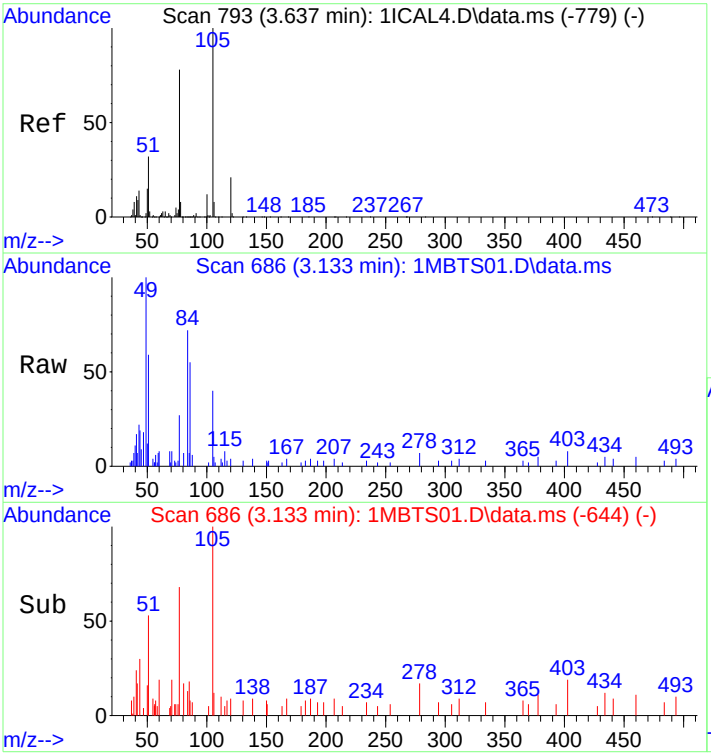
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MBTS01.D Vial: 7
Acq On : 22 Aug 2013 14:29 Operator: RPN
Sample : 97009,MBTS, Inst : SVMS1
Misc : 2364,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:30:06 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

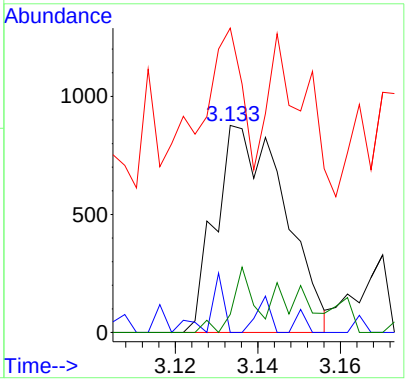


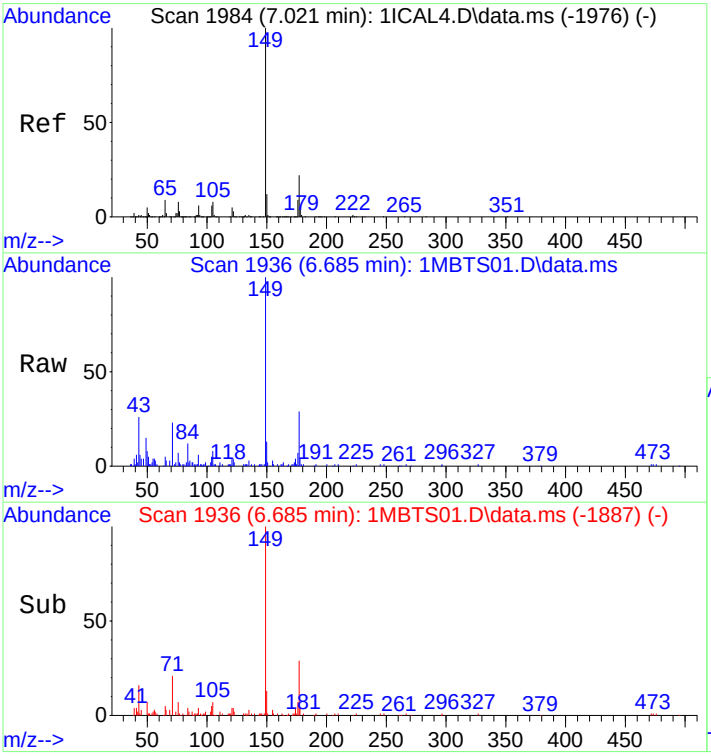


#17
Acetophenone
Concen: 0.09 ug/mL
RT: 3.133 min Scan# 686
Delta R.T. 0.006 min
Lab File: 1MBTS01.D
Acq: 22 Aug 13 2:29 pm

Tgt Ion:105 Resp: 1019

Ion	Ratio	Lower	Upper
105	100		
71	0.0	0.0	30.0
51	58.3	0.0	57.8#
120	4.4	0.2	40.2

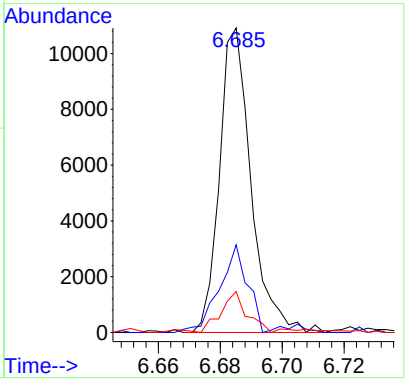


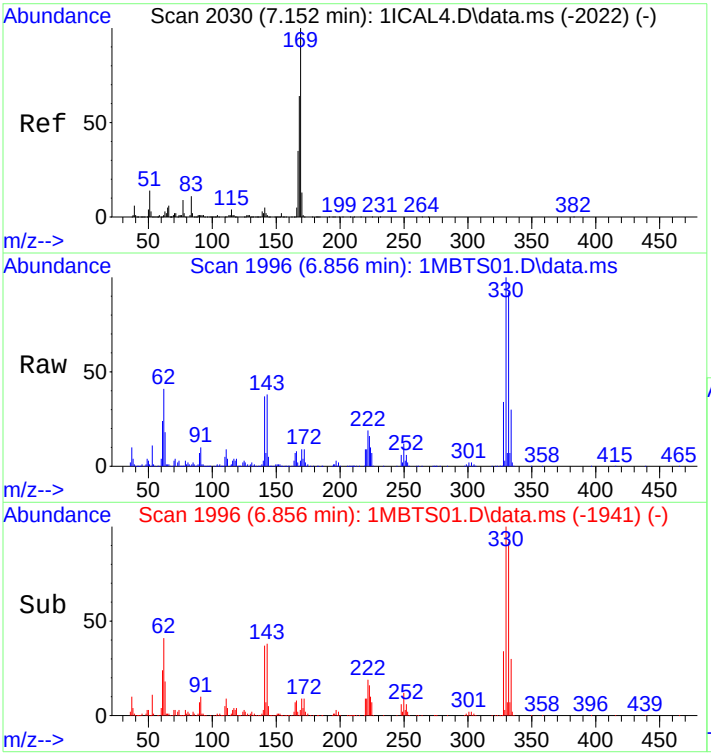


#60
Diethylphthal
Concen: 0.06 ug/mL
RT: 6.685 min Scan# 1936
Delta R.T. -0.006 min
Lab File: 1MBTS01.D
Acq: 22 Aug 13 2:29 pm

Tgt Ion:149 Resp: 7737

Ion	Ratio	Lower	Upper
149	100		
177	28.8	0.0	49.9
150	14.5	0.0	42.4

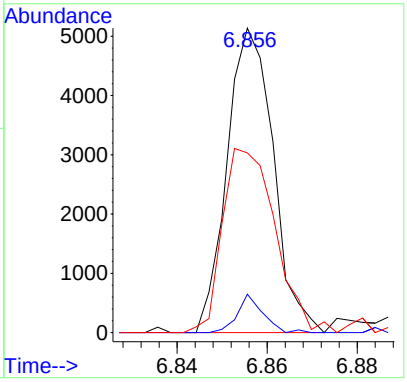


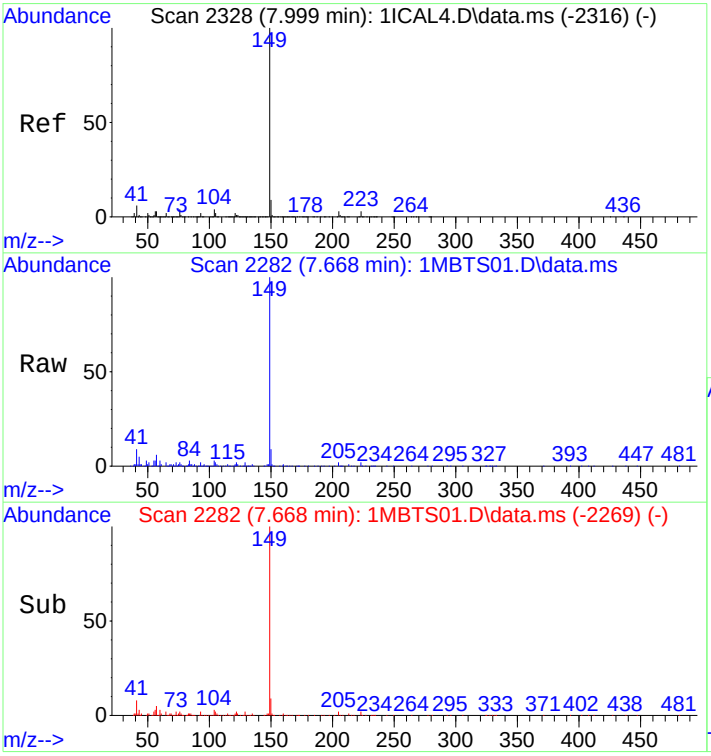


#65
Ntrsdiphlam&Diphlam
Concen: Below ug/mL
RT: 6.856 min Scan# 1996
Delta R.T. 0.043 min
Lab File: 1MBTS01.D
Acq: 22 Aug 13 2:29 pm

Tgt Ion:169 Resp: 3661

Ion	Ratio	Lower	Upper
169	100		
168	12.6	34.5	94.5#
167	71.6	4.6	64.6#

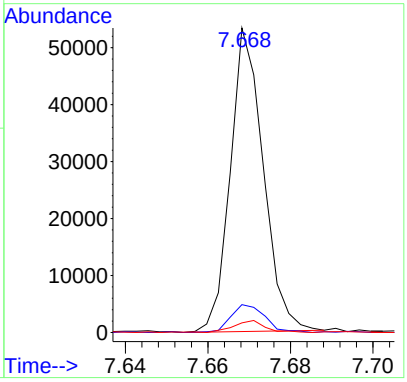


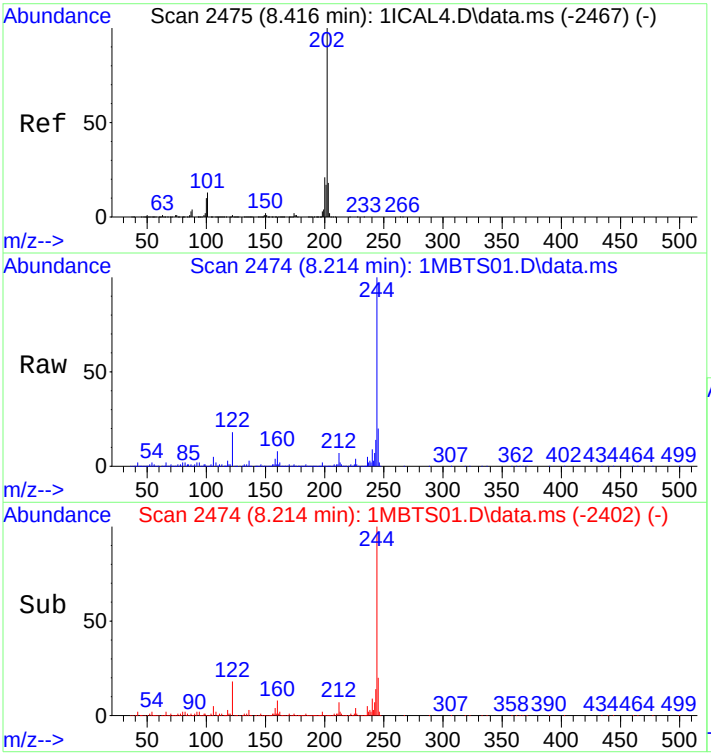


#73
Dinbtylphthal
Concen: 0.66 ug/mL
RT: 7.668 min Scan# 2282
Delta R.T. -0.003 min
Lab File: 1MBTS01.D
Acq: 22 Aug 13 2:29 pm

Tgt Ion:149 Resp: 29509

Ion	Ratio	Lower	Upper
149	100		
150	9.1	0.0	39.4
104	3.0	0.0	33.5

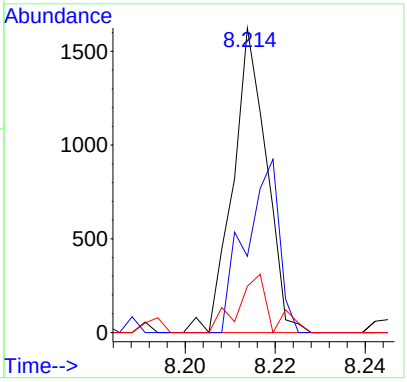


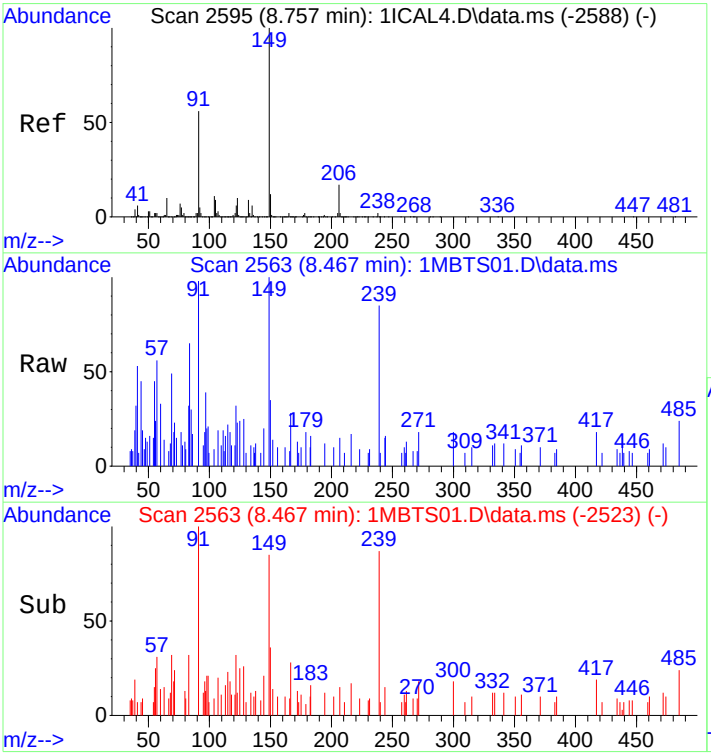


#77
Pyrene
Concen: 0.02 ug/mL
RT: 8.214 min Scan# 2474
Delta R.T. 0.105 min
Lab File: 1MBTS01.D
Acq: 22 Aug 13 2:29 pm

Tgt Ion:202 Resp: 840

Ion	Ratio	Lower	Upper
202	100		
200	32.2	0.0	50.3
203	15.1	0.0	48.5

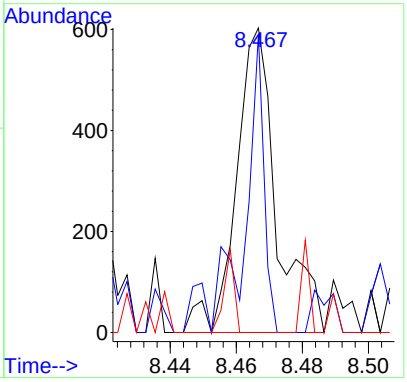


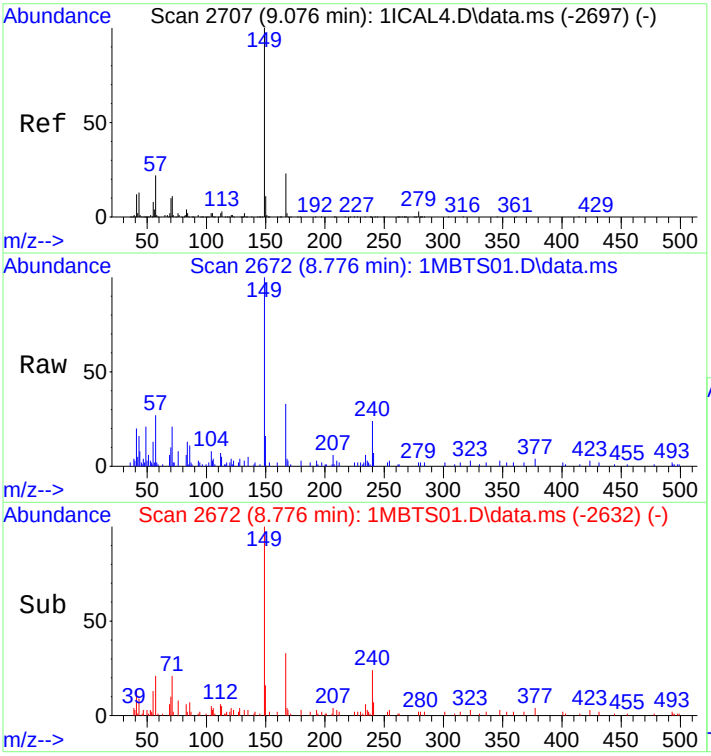


#79
Btylbzylphth
Concen: 0.05 ug/mL
RT: 8.467 min Scan# 2563
Delta R.T. 0.000 min
Lab File: 1MBTS01.D
Acq: 22 Aug 13 2:29 pm

Tgt Ion:149 Resp: 513

Ion	Ratio	Lower	Upper
149	100		
91	97.8	26.8	86.8#
206	0.0	0.0	42.4

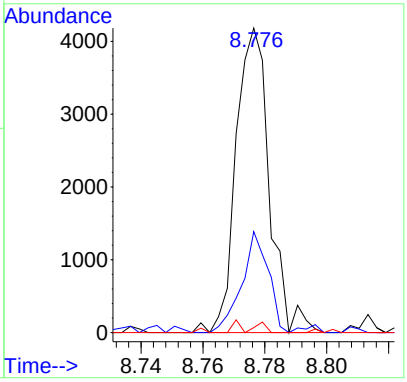




#84
bis2Ethlhxlph
Concen: 0.22 ug/mL
RT: 8.776 min Scan# 2672
Delta R.T. 0.000 min
Lab File: 1MBTS01.D
Acq: 22 Aug 13 2:29 pm

Tgt Ion:149 Resp: 3133

Ion	Ratio	Lower	Upper
149	100		
167	33.2	0.0	55.0
279	1.6	0.0	31.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1LCSW01.D Vial: 8
Acq On : 22 Aug 2013 14:48 Operator: RPN
Sample : 97009,LCSW, Inst : SVMS1
Misc : 340737,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:27:47 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	150606	20.00	ug/mL	0.00
21) Naphthalened8	4.099	136	542716	20.00	ug/mL	0.00
39) Acenaphthened10	6.284	164	409399	20.00	ug/mL	0.00
63) Phenanthrd10	7.282	188	616323	20.00	ug/mL	0.00
75) Chrysene-d12	8.719	240	268149	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	282377	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.889	112	196324	47.82	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 47.82%			
7) SURRPhenol-d5	2.474	99	146426	33.44	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 33.44%			
22) SURRNitrbenzened5	3.267	82	122209	77.69	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 77.69%			
44) SURR2Flbiphenyl	5.696	172	426835	79.30	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 79.30%			
62) SURR246Tribrphenl	6.864	330	124316	91.76	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 91.76%			
78) SURRTerphenyl-d14	8.216	244	282173	105.52	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 105.52%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.306	74	54825	9.9991	ug/mL	99
3) Pyridine	1.320	79	73990	7.1909	ug/mL	99
5) Aniline	2.468	93	157757	11.7075	ug/mL	88
6) bis2Clethletr	2.536	93	133949	14.6971	ug/mL	93
8) Phenol	2.485	94	96205	7.4849	ug/mL	80
9) 2-Cl-phenol	2.553	128	156461	14.2836	ug/mL	97
10) 13Diclbenz	2.667	146	143407	11.2310	ug/mL	97
11) 14Diclbenz	2.738	146	139418	11.5416	ug/mL	99
12) 12Diclbenz	2.863	146	141198	11.8056	ug/mL	97
13) Benzyl alcoho	2.889	108	51121	9.6841	ug/mL	93
14) bis2clispreth	3.022	45	213545	13.9264	ug/mL	96
15) 2Methylphenol	3.017	107	93401	12.8196	ug/mL	96
16) Ntrspyrrol	3.113	100	58309	14.8666	ug/mL	99
17) Acetophenone	3.125	105	177985	15.1948	ug/mL	100
18) Hexaclethane	3.181	117	49774	10.9336	ug/mL	94
19) N-Ntrsdinprop	3.153	70	76455	14.3838	ug/mL	96
20) 3&4Methylphenol	3.184	107	105979	12.0558	ug/mL	92
23) Nitrobenzene	3.289	77	109410	14.2927	ug/mL	96
24) Isophorone	3.579	82	222577	15.1974	ug/mL	98
25) 2-Nitrophenol	3.653	139	79640	14.7383	ug/mL	98
26) 24Dimthpheno	3.792	122	130744	17.2653	ug/mL	92
27) bis2clethoxym	3.909	93	152710	14.8072	ug/mL	94
28) 24Diclphenol	3.971	162	128800	15.0440	ug/mL	98
29) 124Triclbenz	4.048	180	114693	11.9191	ug/mL	99
30) Benzoic acid	3.974	122	24253	5.7247	ug/mL	98
31) Naphthalene	4.122	128	337197	12.9134	ug/mL	99
32) 4-Cl-aniline	4.270	127	141573	12.8419	ug/mL	99
33) 26Diclphenol	4.258	162	112906	16.1401	ug/mL	99
34) Hexaclprop	4.247	213	58690	10.1343	ug/mL	97
35) Hexaclbutdien	4.338	225	57719	11.2653	ug/mL	94
36) 4Cl3methylphe	5.077	107	142090	14.9075	ug/mL	98
37) 2Methylnaphth	5.119	142	343047	12.9509	ug/mL	98
38) 1Methylnaphth	5.270	141	286231	12.1929	ug/mL	99
40) Hxclcycpentdi	5.395	237	70014	11.6968	ug/mL	92

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1LCSW01.D Vial: 8
Acq On : 22 Aug 2013 14:48 Operator: RPN
Sample : 97009,LCSW, Inst : SVMS1
Misc : 340737,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:27:47 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

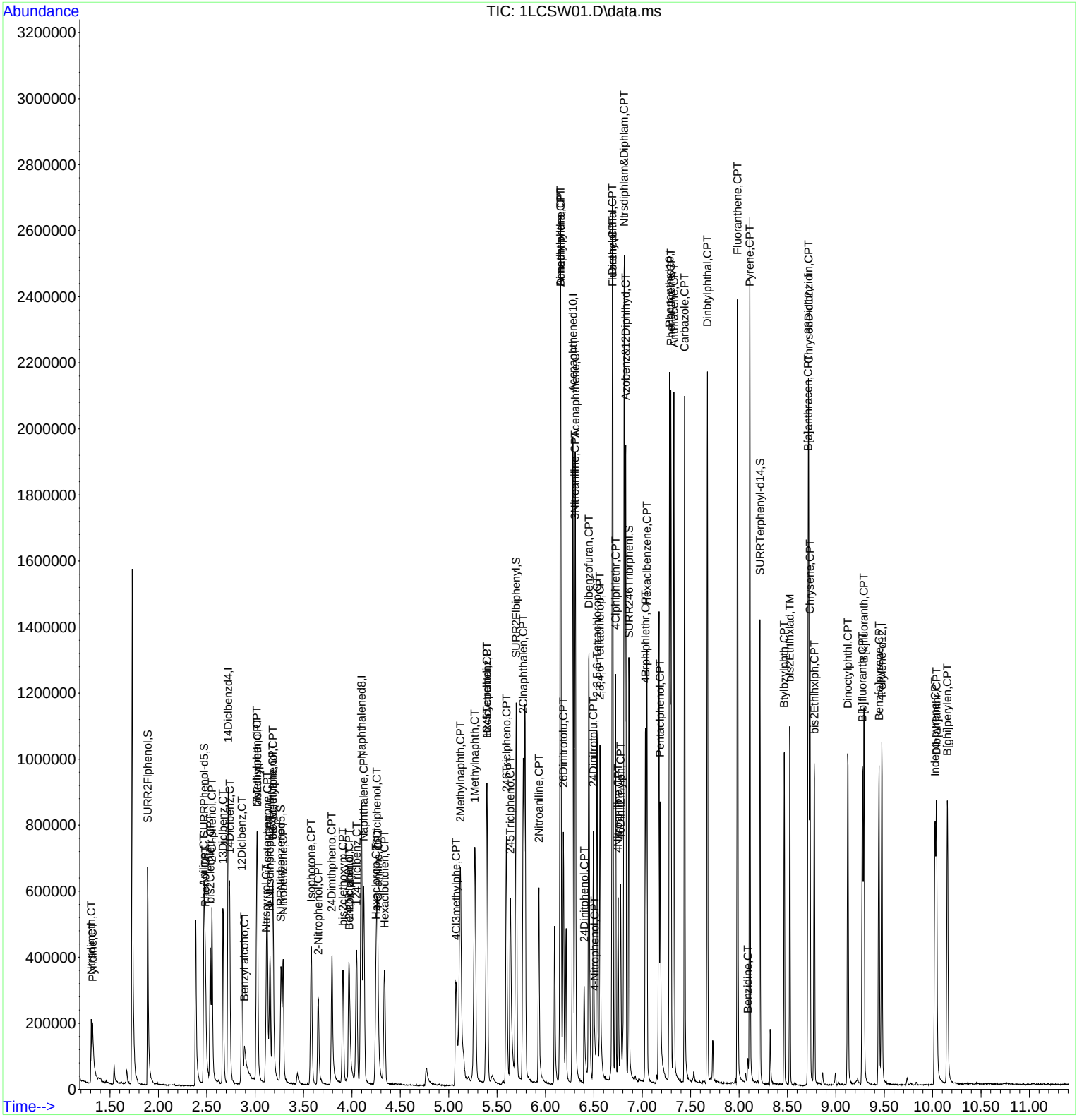
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	5.395	216	169437	13.4553	ug/mL	98
42) 246Triclpheno	5.597	196	140769	17.4783	ug/mL	97
43) 245Triclpheno	5.636	196	156679	17.7927	ug/mL	98
45) 2Clnaphthalen	5.770	162	339317	13.9706	ug/mL	99
46) 2Nitroaniline	5.932	65	82878	17.2887	ug/mL	94
47) Acnaphthylene	6.156	152	538827	15.1367	ug/mL	99
48) Dimethylphtha	6.156	163	448189	19.1594	ug/mL	99
49) 26Dinitrotolu	6.185	165	107816	18.0369	ug/mL	97
50) Acenaphthene	6.310	154	303708	15.1466	ug/mL	99
51) 3Nitroaniline	6.304	138	99009	17.8188	ug/mL	99
52) 24Dinitphenol	6.401	184	62386	16.8261	ug/mL	95
53) Dibenzofuran	6.449	168	494836	15.8190	ug/mL	99
54) 24Dinitrotolu	6.495	165	146021	19.4676	ug/mL	95
55) 4-Nitrophenol	6.509	139	42694	10.0157	ug/mL	96
56) 2,3,5,6-Tetrachlorop	6.534	232	119133	20.2824	ug/mL	97
57) 2,3,4,6-Tetrachlorop	6.563	232	133935	19.1357	ug/mL	96
58) Fluorene	6.693	166	385997	16.6610	ug/mL	98
59) 4Clphlphlethr	6.725	204	190158	15.9066	ug/mL	97
60) Diethylphthal	6.691	149	444092	19.4331	ug/mL	98
61) 4Nitroaniline	6.750	138	103643	18.8041	ug/mL	96
64) 46Dinit2mylph	6.776	198	81759	19.3546	ug/mL	95
65) Ntrsdiphlam&Diphlam	6.813	169	493114	39.1129	ug/mL	99
66) Azobenz&12Diphlhyd	6.830	182	164002	36.4256	ug/mL#	77
67) 4Brphlphlethr	7.034	248	118425	17.1965	ug/mL	94
68) Hexaclbenzene	7.049	284	134182	18.5130	ug/mL	99
69) Pentaclphenol	7.185	266	89004	19.5052	ug/mL	93
70) Phenanthrene	7.296	178	593445	18.7930	ug/mL	99
71) Anthracene	7.327	178	631464	19.2501	ug/mL	99
72) Carbazole	7.438	167	626502	20.2220	ug/mL	99
73) Dinbtylphthal	7.674	149	847590	20.1278	ug/mL	100
74) Fluoranthene	7.983	202	728332	19.6200	ug/mL	99
76) Benzidine	8.091	184	27182	2.7517	ug/mL	95
77) Pyrene	8.111	202	701831	20.7934	ug/mL	98
79) Btylbzylphth	8.466	149	181156	19.1666	ug/mL	97
80) bis2Ethlhxlad	8.523	129	142262	18.4883	ug/mL	98
81) 33Diclbnzidin	8.716	252	85735	21.0212	ug/mL	99
82) B[a]anthracen	8.714	228	296415	19.4665	ug/mL	99
83) Chrysene	8.734	228	269891	19.1041	ug/mL	99
84) bis2Ethlhxlph	8.779	149	249095	19.7748	ug/mL	96
85) Dinoctylphthl	9.123	149	466894	19.9421	ug/mL	98
87) B[b]fluoranth	9.273	252	292191	18.1876	ug/mL	99
88) B[k]fluoranth	9.290	252	290310	19.5901	ug/mL	98
89) Benz[a]pyrene	9.447	252	292056	18.5964	ug/mL	99
90) Indeno-pyrene	10.026	276	331758	19.2056	ug/mL	97
91) Dib[ah]anthr	10.041	278	247400	19.2717	ug/mL	96
92) B[ghi]perylen	10.151	276	287261	18.6174	ug/mL	97

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1LCSW01.D Vial: 8
Acq On : 22 Aug 2013 14:48 Operator: RPN
Sample : 97009,LCSW, Inst : SVMS1
Misc : 340737,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:27:47 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\339580MS.D Vial: 11
Acq On : 22 Aug 2013 15:45 Operator: RPN
Sample : 97009,MSW339580, Inst : SVMS1
Misc : 340739,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:57:01 2013

RPN 08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.721	152	146783	20.00	ug/mL	0.00
21) Naphthalened8	4.096	136	536444	20.00	ug/mL	0.00
39) Acenaphthened10	6.284	164	417131	20.00	ug/mL	0.00
63) Phenanthrd10	7.282	188	598157	20.00	ug/mL	0.00
75) Chrysene-d12	8.720	240	273681	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	285096	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.889	112	182784	45.68	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 45.68%			
7) SURRPhenol-d5	2.477	99	132191	30.97	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 30.97%			
22) SURRNitrbenzened5	3.267	82	112040	72.06	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 72.06%			
44) SURR2Flbiphenyl	5.696	172	417249	76.09	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 76.09%			
62) SURR246Tribrphenl	6.864	330	119439	86.53	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 86.53%			
78) SURRTerphenyl-d14	8.217	244	264745	97.00	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 97.00%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.306	74	50406	9.4326	ug/mL	98
3) Pyridine	1.318	79	88072	8.7824	ug/mL	96
5) Aniline	2.468	93	107780	8.2069	ug/mL	95
6) bis2Clethletr	2.537	93	122377	13.7772	ug/mL	92
8) Phenol	2.485	94	86985	6.9438	ug/mL	90
9) 2-Cl-phenol	2.554	128	145933	13.6695	ug/mL	95
10) 13Diclbenz	2.667	146	146192	11.7473	ug/mL	96
11) 14Diclbenz	2.735	146	142256	12.0833	ug/mL	97
12) 12Diclbenz	2.863	146	141459	12.1355	ug/mL	97
13) Benzyl alcoho	2.897	108	42135	8.1897	ug/mL	96
14) bis2clispreth	3.021	45	200604	13.4232	ug/mL	96
15) 2Methylphenol	3.017	107	93733	13.2002	ug/mL	95
16) Ntrspyrrol	3.113	100	53767	14.0656	ug/mL	97
17) Acetophenone	3.122	105	164246	14.3871	ug/mL	97
18) Hexaclethane	3.182	117	52256	11.7778	ug/mL	94
19) N-Ntrsdinprop	3.150	70	71725	13.8454	ug/mL	97
20) 3&4Methylphenol	3.184	107	108673	12.6842	ug/mL	97
23) Nitrobenzene	3.287	77	105417	13.9321	ug/mL	99
24) Isophorone	3.579	82	207386	14.3257	ug/mL	99
25) 2-Nitrophenol	3.650	139	78994	14.7897	ug/mL	99
26) 24Dimthpheno	3.798	122	121908	16.2867	ug/mL	95
27) bis2clethoxym	3.906	93	145374	14.2607	ug/mL	97
28) 24Diclphenol	3.969	162	135623	16.0262	ug/mL	98
29) 124Triclbenz	4.045	180	115480	12.1411	ug/mL	98
31) Naphthalene	4.122	128	335975	13.0170	ug/mL	98
32) 4-Cl-aniline	4.267	127	121775	11.1752	ug/mL	98
33) 26Diclphenol	4.258	162	114029	16.4912	ug/mL	99
34) Hexaclprop	4.247	213	65762	11.4882	ug/mL	97
35) Hexaclbutdien	4.338	225	59600	11.7684	ug/mL	95
36) 4Cl3methylphe	5.080	107	146619	15.5625	ug/mL	98
37) 2Methylnaphth	5.117	142	458063	17.4953	ug/mL	98
38) 1Methylnaphth	5.267	141	295183	12.7212	ug/mL	95
40) Hxclcycpentdi	5.392	237	77780	12.7534	ug/mL	98
41) 1245Tetrclbenz	5.395	216	167199	13.0315	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\339580MS.D Vial: 11
Acq On : 22 Aug 2013 15:45 Operator: RPN
Sample : 97009,MSW339580, Inst : SVMS1
Misc : 340739,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:57:01 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

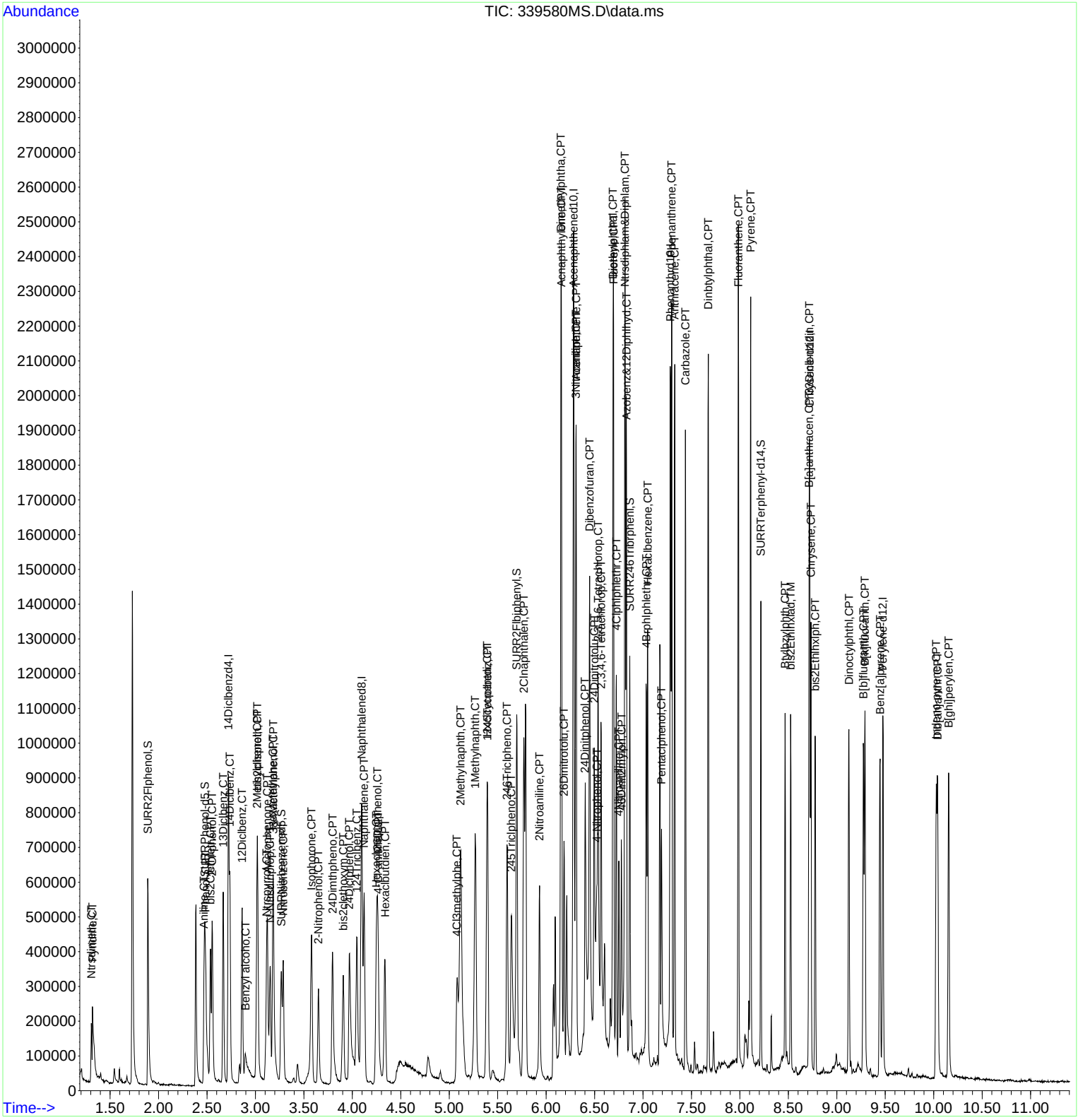
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 246Triclpheno	5.597	196	148121	18.0502 ug/mL	96
43) 245Triclpheno	5.639	196	170609	19.0155 ug/mL	96
45) 2Clnaphthalen	5.770	162	349795	14.1350 ug/mL	99
46) 2Nitroaniline	5.932	65	88489	18.1170 ug/mL	97
47) Acnaphthylene	6.157	152	551067	15.2022 ug/mL	100
48) Dimethylphtha	6.154	163	474525	20.0861 ug/mL	98
49) 26Dinitrotolu	6.185	165	100695	16.5334 ug/mL	97
50) Acenaphthene	6.310	154	304257	14.8586 ug/mL	99
51) 3Nitroaniline	6.307	138	86293	15.2424 ug/mL	96
52) 24Dinitphenol	6.401	184	62372	16.5485 ug/mL	98
53) Dibenzofuran	6.449	168	489363	15.3541 ug/mL	98
54) 24Dinitrotolu	6.498	165	134753	17.6323 ug/mL	97
55) 4-Nitrophenol	6.523	139	42791	9.8524 ug/mL	89
56) 2,3,5,6-Tetrachlorop	6.537	232	118975	19.8800 ug/mL	97
57) 2,3,4,6-Tetrachlorop	6.569	232	124842	17.5060 ug/mL	96
58) Fluorene	6.696	166	394178	16.7059 ug/mL	98
59) 4Clphlphlethr	6.725	204	194699	15.9968 ug/mL	98
60) Diethylphthal	6.691	149	419045	17.6931 ug/mL	98
61) 4Nitroaniline	6.750	138	105300	18.7506 ug/mL	98
64) 46Dinit2mylph	6.779	198	82107	20.0273 ug/mL	95
65) Ntrsdiphlam&Diphlam	6.813	169	460645	37.2894 ug/mL	98
66) Azobenz&12Diphlhyd	6.830	182	158616	36.2744 ug/mL#	73
67) 4Brphlphlethr	7.035	248	123610	18.4945 ug/mL	98
68) Hexaclbenzene	7.049	284	126484	17.9809 ug/mL	97
69) Pentaclphenol	7.191	266	92390	20.8622 ug/mL	98
70) Phenanthrene	7.296	178	575505	18.7784 ug/mL	99
71) Anthracene	7.327	178	566012	17.7788 ug/mL	98
72) Carbazole	7.438	167	563789	18.7504 ug/mL	99
73) Dinbtylphthal	7.674	149	845313	20.6834 ug/mL	99
74) Fluoranthene	7.984	202	690935	19.1778 ug/mL	98
77) Pyrene	8.111	202	647007	18.7817 ug/mL	100
79) Btylbzylphth	8.467	149	169111	17.5306 ug/mL	97
80) bis2Ethlhxlad	8.523	129	137620	17.5235 ug/mL	95
81) 33Diclbnzidin	8.717	252	27545	6.6172 ug/mL	95
82) B[a]anthracen	8.714	228	294900	18.9755 ug/mL	99
83) Chrysene	8.734	228	262281	18.1902 ug/mL	99
84) bis2Ethlhxlph	8.776	149	246777	19.1948 ug/mL	99
85) Dinoctylphthl	9.126	149	455444	19.0598 ug/mL	98
87) B[b]fluoranth	9.274	252	279721	17.2453 ug/mL	97
88) B[k]fluoranth	9.291	252	278758	18.6311 ug/mL	98
89) Benz[a]pyrene	9.447	252	281630	17.7615 ug/mL	99
90) Indeno-pyrene	10.027	276	324359	18.5982 ug/mL	97
91) Dib[ah]anthr	10.041	278	251504	19.4046 ug/mL	98
92) B[ghi]perylen	10.154	276	282139	18.1111 ug/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\339580MS.D Vial: 11
Acq On : 22 Aug 2013 15:45 Operator: RPN
Sample : 97009,MSW339580, Inst : SVMS1
Misc : 340739,500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 11:57:01 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 11:25:52 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MRL07.D Vial: 3
Acq On : 22 Aug 2013 16:02 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 12:41:24 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 12:41:19 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.718	152	164423	20.00	ug/mL	0.00
21) Naphthalened8	4.094	136	584274	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	456855	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	696573	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	331778	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	315132	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.889	112	8793	1.96	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 1.96%#			
7) SURRPhenol-d5	2.474	99	11732	2.45	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 2.45%#			
22) SURRNitrbenzened5	3.267	82	8981	5.30	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 5.30%#			
44) SURR2Flbiphenyl	5.693	172	35827	5.97	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 5.97%#			
62) SURR246Tribrphenl	6.858	330	4417	2.92	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 2.92%#			
78) SURRTerphenyl-d14	8.214	244	20144	6.09	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 6.09%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.300	74	5522	0.9225	ug/mL	94
3) Pyridine	1.337	79	7473	0.6653	ug/mL	80
5) Aniline	2.471	93	14683	0.9981	ug/mL#	1
6) bis2Clethletr	2.531	93	11310	1.1367	ug/mL#	79
8) Phenol	2.482	94	64301	4.5823	ug/mL	99
9) 2-Cl-phenol	2.548	128	58431	4.8860	ug/mL	95
10) 13Diclbenz	2.664	146	15010	1.0767	ug/mL	86
11) 14Diclbenz	2.735	146	14677	1.1129	ug/mL	94
12) 12Diclbenz	2.860	146	13756	1.0535	ug/mL	93
13) Benzyl alcoho	0.000		0	N.D.		
14) bis2clispreth	3.018	45	17901	1.0693	ug/mL#	37
15) 2Methylphenol	3.008	107	42496	5.3426	ug/mL	88
16) Ntrspyrrol	3.113	100	4349	1.0157	ug/mL	69
17) Acetophenone	3.122	105	12192	0.9534	ug/mL	90
18) Hexaclethane	3.179	117	5175	1.0412	ug/mL	81
19) N-Ntrsdinprop	3.147	70	5950	1.0253	ug/mL	95
20) 3&4Methylphenol	3.181	107	92746	9.6638	ug/mL	97
23) Nitrobenzene	3.287	77	8322	1.0098	ug/mL	92
24) Isophorone	3.576	82	16417	1.0412	ug/mL	95
25) 2-Nitrophenol	3.650	139	29545	5.0787	ug/mL	94
26) 24Dimthpheno	3.790	122	47481	5.8241	ug/mL	98
27) bis2clethoxym	3.906	93	11665	1.0506	ug/mL	92
28) 24Diclphenol	3.971	162	47948	5.2020	ug/mL	95
29) 124Triclbenz	4.045	180	12313	1.1886	ug/mL	85
30) Benzoic acid	3.969	122	22505	4.9342	ug/mL	90
31) Naphthalene	4.119	128	31092	1.1060	ug/mL	95
32) 4-Cl-aniline	4.273	127	12119	1.0211	ug/mL	90
33) 26Diclphenol	4.258	162	45808	6.0825	ug/mL	92
34) Hexaclprop	4.247	213	6377	1.0228	ug/mL	95
35) Hexaclbutdien	4.335	225	6277	1.1380	ug/mL	94
36) 4Cl3methylphe	5.080	107	50058	4.8783	ug/mL	96
37) 2Methylnaphth	5.119	142	73166	2.5657	ug/mL	88
38) 1Methylnaphth	5.270	141	28981	1.1467	ug/mL	99
40) Hxclcycpentdi	5.392	237	5463	0.8179	ug/mL	92

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MRL07.D Vial: 3
Acq On : 22 Aug 2013 16:02 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 12:41:24 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 12:41:19 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

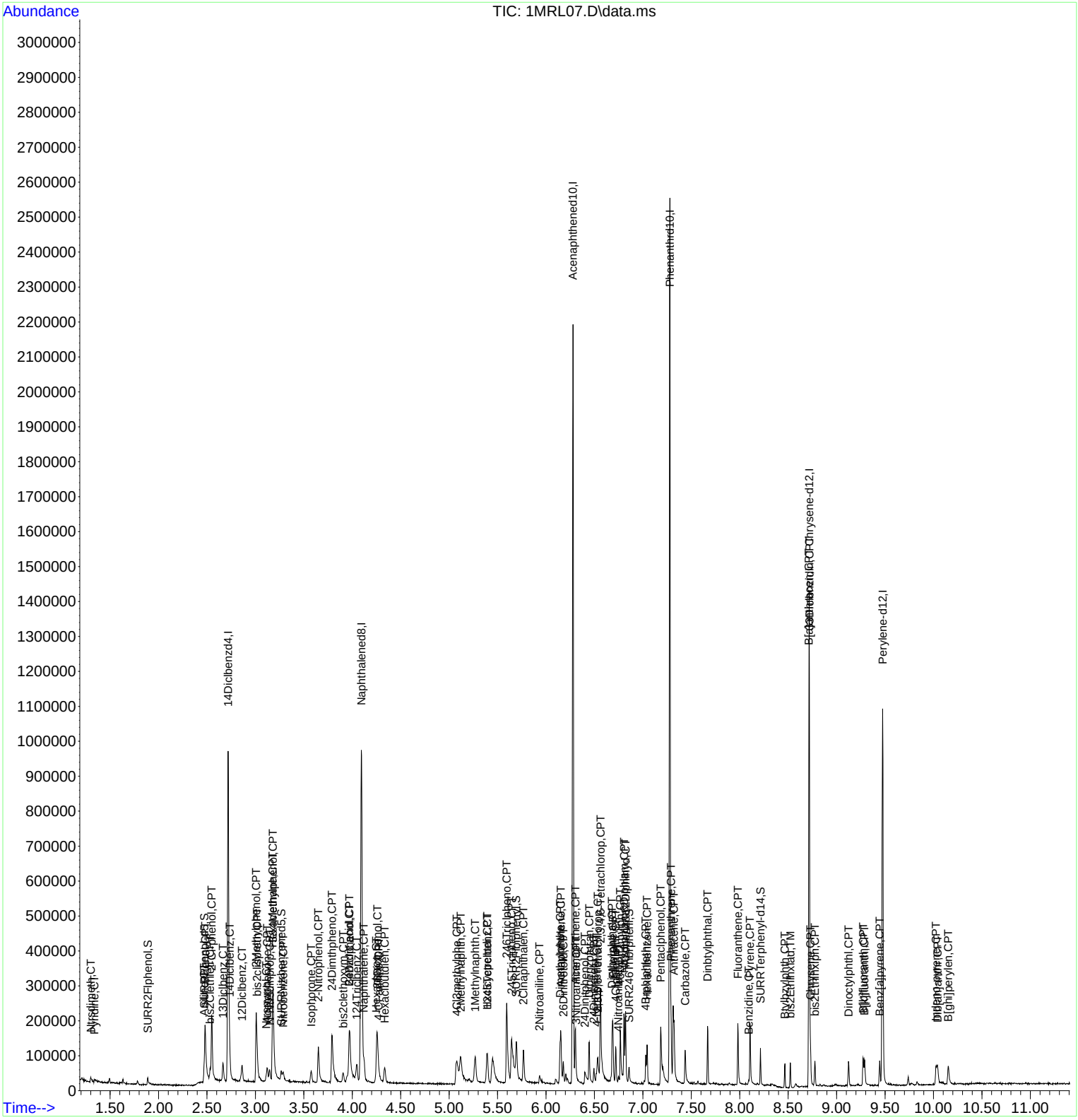
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.395	216	17399	1.2382 ug/mL	96
42) 246Triclpheno	5.594	196	46373	5.1597 ug/mL	93
43) 245Triclpheno	5.645	196	51150	5.2053 ug/mL	93
45) 2Clnaphthalen	5.767	162	31617	1.1665 ug/mL	94
46) 2Nitroaniline	5.932	65	5062	0.9463 ug/mL#	68
47) Acnaphthylene	6.154	152	50712	0.8800 ug/mL	98
48) Dimethylphtha	6.145	163	34790	0.9046 ug/mL	97
49) 26Dinitrotolu	6.179	165	7297	1.0939 ug/mL#	76
50) Acenaphthene	6.304	154	27206	0.9385 ug/mL	95
51) 3Nitroaniline	6.313	138	7154	1.1538 ug/mL	90
52) 24Dinitphenol	6.401	184	13692	5.4467 ug/mL	80
53) Dibenzofuran	6.446	168	43381	1.2428 ug/mL	96
54) 24Dinitrotolu	6.495	165	9295	1.1105 ug/mL	99
55) 4-Nitrophenol	6.523	139	26251	5.5186 ug/mL	85
56) 2,3,5,6-Tetrachlorop	6.534	232	6903	1.0532 ug/mL	93
57) 2,3,4,6-Tetrachlorop	6.563	232	43717	5.5972 ug/mL	97
58) Fluorene	6.691	166	34022	0.9425 ug/mL	99
59) 4Clphlphlethr	6.719	204	16303	0.9623 ug/mL	97
60) Diethylphthal	6.682	149	34572	0.9550 ug/mL	98
61) 4Nitroaniline	6.747	138	6901	1.1220 ug/mL	89
64) 46Dinit2mylph	6.767	198	24610	5.1547 ug/mL	98
65) Ntrsdiphlam&Diphlam	6.807	169	40829	1.8737 ug/mL	98
66) Azobenz&12Diphlhyd	6.821	182	15157	2.0315 ug/mL#	80
67) 4Brphlphlethr	7.029	248	9422	1.2105 ug/mL	91
68) Hexaclbenzene	7.043	284	11512	1.4053 ug/mL	89
69) Pentaclphenol	7.185	266	28385	5.5039 ug/mL	96
70) Phenanthrene	7.290	178	43668	1.2235 ug/mL	100
71) Anthracene	7.321	178	48931	1.3198 ug/mL	97
72) Carbazole	7.438	167	45866	1.3099 ug/mL	95
73) Dinbtylphthal	7.668	149	65125	1.3684 ug/mL	98
74) Fluoranthene	7.981	202	54257	1.2932 ug/mL	98
76) Benzidine	8.094	184	8481	0.6939 ug/mL	82
77) Pyrene	8.106	202	53611	1.2837 ug/mL	97
79) Btylbzylphth	8.467	149	11777	1.0071 ug/mL	99
80) bis2Ethlhxlad	8.523	129	9809	1.0303 ug/mL	99
81) 33Diclbnzidin	8.719	252	6565	1.3010 ug/mL	97
82) B[a]anthracen	8.714	228	21272	1.1291 ug/mL	94
83) Chrysene	8.731	228	20469	1.1710 ug/mL	93
84) bis2Ethlhxlph	8.776	149	16691	1.0709 ug/mL	93
85) Dinoctylphthl	9.123	149	29585	1.0213 ug/mL	97
87) B[b]fluoranth	9.274	252	20205	1.1269 ug/mL	94
88) B[k]fluoranth	9.288	252	20156	1.2188 ug/mL	98
89) Benz[a]pyrene	9.444	252	21248	1.2123 ug/mL	91
90) Indeno-pyrene	10.027	276	22272	1.1553 ug/mL	92
91) Dib[ah]anthr	10.044	278	17111	1.1944 ug/mL	95
92) B[ghi]perylen	10.152	276	20594	1.1960 ug/mL	97

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MRL07.D Vial: 3
Acq On : 22 Aug 2013 16:02 Operator: RPN
Sample : MRL 1/5ug/ml SVMS5799 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 23 12:41:24 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Fri Aug 23 12:41:19 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MDL07.D Vial: 4
Acq On : 22 Aug 2013 16:20 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 26 15:53:01 2013

RPN
08/23/13

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Mon Aug 26 14:39:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	2.718	152	171329	20.00	ug/mL	0.00
21) Naphthalened8	4.094	136	605828	20.00	ug/mL	0.00
39) Acenaphthened10	6.279	164	490825	20.00	ug/mL	0.00
63) Phenanthrd10	7.279	188	772153	20.00	ug/mL	0.00
75) Chrysene-d12	8.717	240	353968	20.00	ug/mL	0.00
86) Perylene-d12	9.475	264	330128	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	1.900	112	3927	0.84	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 0.84%#			
7) SURRPhenol-d5	2.477	99	6548	1.31	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 1.31%#			
22) SURRNitrbenzened5	3.270	82	4509	2.57	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 2.57%#			
44) SURR2Flbiphenyl	5.696	172	19783	3.07	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 3.07%#			
62) SURR246Tribrphenl	6.861	330	2177	1.34	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 1.34%#			
78) SURRTerphenyl-d14	8.214	244	11241	3.18	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 3.18%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.309	74	2429	0.3894	ug/mL	86
3) Pyridine	1.372	79	3999	0.3416	ug/mL	83
5) Aniline	2.471	93	7203	0.4699	ug/mL#	1
6) bis2Clethletr	2.534	93	5556	0.5359	ug/mL	86
8) Phenol	2.485	94	32324	2.2107	ug/mL	97
9) 2-Cl-phenol	2.551	128	33647	2.7002	ug/mL	96
10) 13Diclbenz	2.667	146	7699	0.5300	ug/mL	94
11) 14Diclbenz	2.733	146	7093	0.5162	ug/mL	91
12) 12Diclbenz	2.863	146	7003	0.5147	ug/mL	89
13) Benzyl alcoho	0.000		0	N.D.		
14) bis2clispreth	3.018	45	10159	0.5824	ug/mL#	43
15) 2Methylphenol	3.011	107	20666	2.4934	ug/mL	85
16) Ntrspyrrol	3.116	100	1977	0.4431	ug/mL	85
17) Acetophenone	3.128	105	5900	0.4428	ug/mL	85
18) Hexaclethane	3.179	117	2660	0.5136	ug/mL	94
19) N-Ntrsdinprop	3.150	70	2887	0.4774	ug/mL	78
20) 3&4Methylphenol	3.182	107	48886	4.8884	ug/mL	98
23) Nitrobenzene	3.289	77	2985	0.3493	ug/mL	99
24) Isophorone	3.579	82	7433	0.4546	ug/mL	97
25) 2-Nitrophenol	3.656	139	13975	2.3168	ug/mL	88
26) 24Dimthpheno	3.795	122	23927	2.8305	ug/mL	94
27) bis2clethoxym	3.906	93	5753	0.4997	ug/mL	83
28) 24Diclphenol	3.977	162	25314	2.6487	ug/mL	98
29) 124Triclbenz	4.051	180	6415	0.5972	ug/mL	87
30) Benzoic acid	3.952	122	10467	2.2133	ug/mL	93
31) Naphthalene	4.119	128	17095	0.5865	ug/mL	95
32) 4-Cl-aniline	4.278	127	5957	0.4841	ug/mL	89
33) 26Diclphenol	4.258	162	24124	3.0893	ug/mL	93
34) Hexaclprop	4.253	213	3102	0.4798	ug/mL	76
35) Hexaclbutdien	4.335	225	3443	0.6020	ug/mL	87
36) 4Cl3methylphe	5.085	107	26810	2.5198	ug/mL	94
37) 2Methylnaphth	5.122	142	22518	0.7616	ug/mL	73
38) 1Methylnaphth	5.270	141	16166	0.6169	ug/mL	86
40) Hxclcycpentdi	5.392	237	1899	0.2646	ug/mL	82

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MDL07.D Vial: 4
Acq On : 22 Aug 2013 16:20 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 26 15:53:01 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Mon Aug 26 14:39:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M

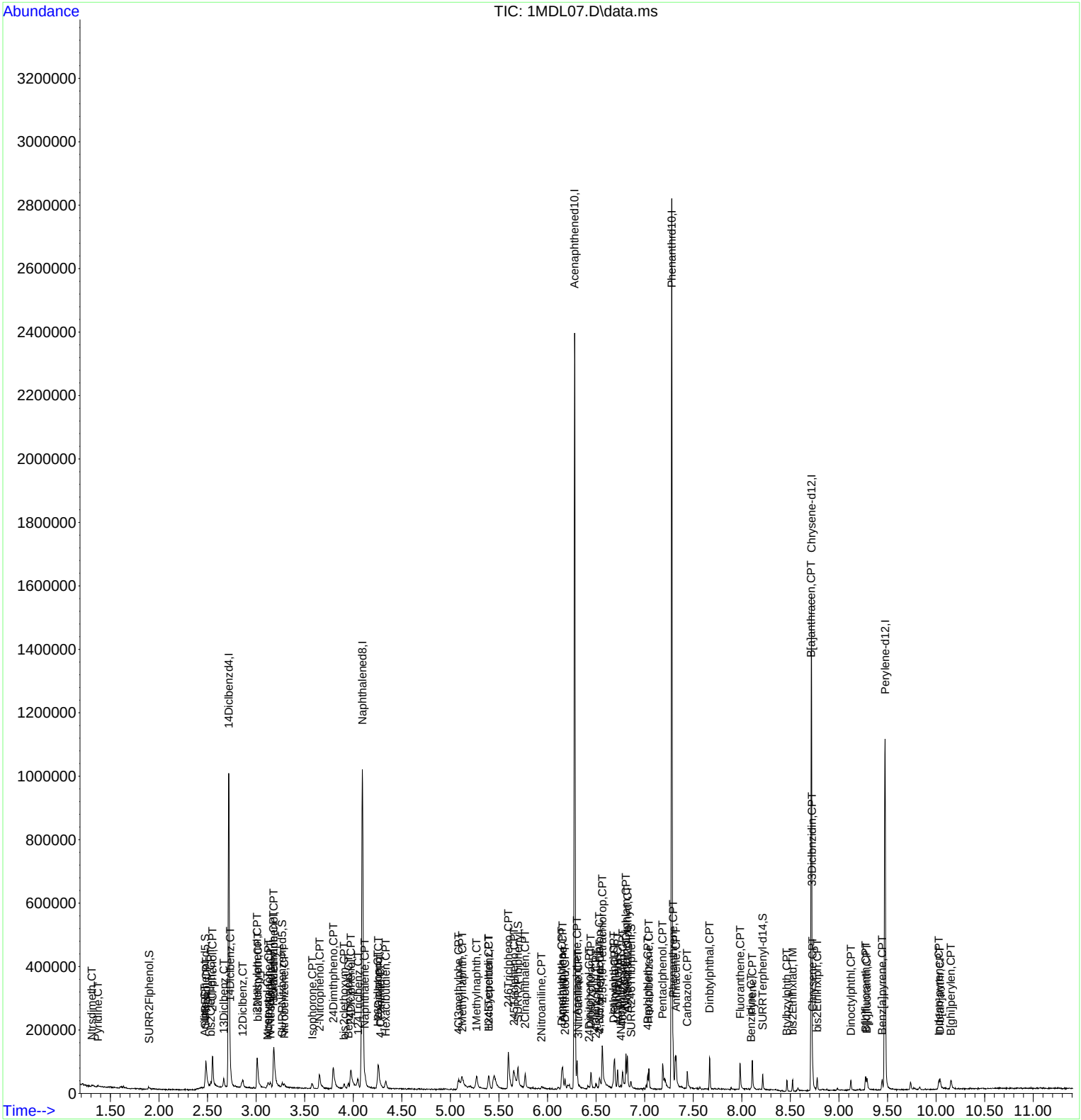
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	5.395	216	8783	0.5818 ug/mL	91
42) 246Triclpheno	5.597	196	24805	2.5689 ug/mL	97
43) 245Triclpheno	5.654	196	25916	2.4548 ug/mL	99
45) 2Clnaphthalen	5.770	162	16387	0.5628 ug/mL	90
46) 2Nitroaniline	5.938	65	2077	0.3614 ug/mL#	79
47) Acnaphthylene	6.157	152	27205	0.2884 ug/mL	95
48) Dimethylphtha	6.145	163	19044	0.3316 ug/mL	94
49) 26Dinitrotolu	6.182	165	3669	0.5120 ug/mL	94
50) Acenaphthene	6.304	154	15221	0.4015 ug/mL	94
51) 3Nitroaniline	6.316	138	3015	0.4526 ug/mL	86
52) 24Dinitphenol	6.429	184	4381	3.5857 ug/mL	78
53) Dibenzofuran	6.446	168	20500	0.5466 ug/mL	95
54) 24Dinitrotolu	6.497	165	4398	0.4891 ug/mL	85
55) 4-Nitrophenol	6.537	139	12027	2.3534 ug/mL#	74
56) 2,3,5,6-Tetrachlorop	6.534	232	3260	0.4629 ug/mL	94
57) 2,3,4,6-Tetrachlorop	6.566	232	23592	2.8115 ug/mL	97
58) Fluorene	6.691	166	19109	0.3809 ug/mL	98
59) 4Clphlphlethr	6.722	204	8985	0.4233 ug/mL	92
60) Diethylphthal	6.682	149	18298	0.3583 ug/mL	99
61) 4Nitroaniline	6.756	138	2724	0.4122 ug/mL	99
64) 46Dinit2mylph	6.773	198	10835	2.0473 ug/mL	85
65) Ntrsdiphlam&Diphlam	6.807	169	22676	0.6385 ug/mL	93
66) Azobenz&12Diphlhyd	6.824	182	8353	0.6891 ug/mL#	60
67) 4Brphlphlethr	7.032	248	5323	0.6170 ug/mL	94
68) Hexaclbenzene	7.043	284	5869	0.6463 ug/mL	87
69) Pentaclphenol	7.185	266	13173	2.3043 ug/mL	97
70) Phenanthrene	7.293	178	25438	0.6430 ug/mL	93
71) Anthracene	7.324	178	26305	0.6401 ug/mL	99
72) Carbazole	7.438	167	24787	0.6386 ug/mL	98
73) Dinbtylphthal	7.668	149	38100	0.7222 ug/mL	99
74) Fluoranthene	7.984	202	29497	0.6342 ug/mL	97
76) Benzidine	8.097	184	4971	0.3812 ug/mL	93
77) Pyrene	8.109	202	28158	0.6320 ug/mL	99
79) Btylbzylphth	8.464	149	6053	0.4851 ug/mL	91
80) bis2Ethlhxlad	8.523	129	4791	0.4717 ug/mL#	87
81) 33Diclbnzidin	8.722	252	3556	0.6605 ug/mL	80
82) B[a]anthracen	8.714	228	11940	0.5940 ug/mL	88
83) Chrysene	8.728	228	11912	0.6388 ug/mL	98
84) bis2Ethlhxlph	8.776	149	8712	0.5239 ug/mL	93
85) Dinoctylphthl	9.123	149	13794	0.4463 ug/mL	93
87) B[b]fluoranth	9.274	252	8744	0.4655 ug/mL	95
88) B[k]fluoranth	9.288	252	11671	0.6736 ug/mL	95
89) Benz[a]pyrene	9.444	252	10154	0.5530 ug/mL	97
90) Indeno-pyrene	10.029	276	12085	0.5984 ug/mL	89
91) Dib[ah]anthr	10.041	278	8606	0.5734 ug/mL	87
92) B[ghi]perylen	10.152	276	11658	0.6463 ug/mL	89

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\Data\1S082213\1MDL07.D Vial: 4
Acq On : 22 Aug 2013 16:20 Operator: RPN
Sample : MDL 0.5/2.5ug/ml SVMS5798 Inst : SVMS1
Misc : 500uL+5ul IS S2860A Multiplr: 1.00
Integrator: RTE
Quant Time: Aug 26 15:53:01 2013

Quant Method : C:\INSTARCH\METHODS\1S080513.M
Quant Title : Method for 8270 analysis
QLast Update : Mon Aug 26 14:39:29 2013
Response via : Initial Calibration
DataAcq Meth:1S080513.M



SEMI - VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

S SVOC 8270 WATER Analytical Run
96903 on 8/20/2013

Date Analyzed: 8/20/2013

RPN
08/20/13

Date Reviewed: _____

Date Entered: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339561		8/15/2013 0930		ECC	RVAAP	SVOC 8270 QSM		GW	4	
		083SB-0023-0001-ER						45503			
	339715						SVOC 8270 QSM				
				MBW				45503			
	339716						SVOC 8270 QSM				
				LCSW				45503			

3 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 8/20/2013

Prep Batch **45,503** Date Prepped: 8/19/2013 Prepped JLH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	339715	MBW		SVOC 8270 QSM	LIQUID	1.0		1.00		
	339716	LCSW		SVOC 8270 QSM	LIQUID	1.0		1.00		
99335	339561			SVOC 8270 QSM	GROUND WATER	1.0		0.99	N	

Notes:_____

Method 8270-SV GC/MS Extraction Bench Sheet

(SOP Reference #'s 8270C, 8270D, 8270 SIM)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	45503
Prep Method:	3510
Analyst:	JLH
Date:	8/19/2013
Start Time:	10:30
End Date:	8/20/2013
End Time:	09:30

Matrix: WATER
Balance Used: NA
Ave MW temp(°C): NA

Reagent Lots>>>

Sodium Sulfate	SV0081
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	49542
Acetone	NA
Sulfuric Acid	SV0033
Sodium Hydroxide	SV0079

Initial Concentration By: NA
Date: NA
GPC Cleanup? (yes/no): NO
Date: NA
Final Concentration By: JLH/MMS
Date: 8/20/2013

Microwave Cell #	Sample ID	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)	ph Adj. <2 (Yes/No)	pH Adj. >12 Yes/No)
	339715	(MB)		1.00	1.0	Y	Y
	339716	(LCS)		1.00	1.0	Y	Y
	339561			0.99	1.0	Y	Y
		(MS) Parent Sample					
		(MSD)					

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (ml): 1
Spike Concentration (ug/mL): 20
Spike Reference #: SVMS 5789

Surrogate Spike Amount (ml): 1
Surrogate Spike Conc. (ug/mL): 20/40
Surrogate Spike Reference #: SVMS 5784/5785

Relinquished to: RPN
Date: 8/20/2013

Reviewed By: RED
Date: 8/23/2013

Table 4

8270 SVOC Analysis Data Review Checklist

Analytical Run #: 96903	**Independent Reviewer: RED**
Sequence Date: 8/20/2013	**Date of Review: 8/23/2013**
Analyst/Data Interpreter: RPN	**Approval: yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. SPCC responses.	Avg. RRF ≥ 0.05	**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	**Yes**		**Yes**		
d. Were the standards used for the ICAL uniquely identified?		**Yes**		**Yes**		
e. Was there a DFTPP standard analyzed prior to the ICAL?		**Yes**		**Yes**		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the SPCC within QC limits	RRF ≥ 0.05	**Yes**		**Yes**		
c. Were the CCCs within QC limits	%D ≤ 20%	**Yes**		**Yes**		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		**Yes**		**Yes**		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	**Yes**		**Yes**		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	**Yes**		**Yes**		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	**Yes**		**Yes**		
e. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 96903

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		**Yes**		**Yes**		
b. Were the relative abundance criteria met?		**Yes**		**Yes**		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	**Yes**		**Yes**		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	**Yes**		**Yes**		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the MB results less than the reporting limit (RL)?	< MRL	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		

Additional Comments:

Analytical Run #: 96903

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments		**No**		**No**	
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

PAH SIM QSM Analytical Run
96939 on 8/20/2013

Date Analyzed: 8/21/2013

RPN
08/20/13

Date Reviewed: _____

Date Entered: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339561		8/15/2013 0930		ECC	RVAAP	PAH SIM QSM		GW	4	
		083SB-0023-0001-ER						45508			
	339737						PAH SIM QSM				
				MBW				45508			
	339738						PAH SIM QSM				
				LCSW				45508			

3 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: C:\LIMSREPS\ANALYTICALRUN.RPT 1 of 1

PREP WORKSHEET
on 8/20/2013

Prep Batch **45,508** Date Prepped: 8/20/2013 Prepped JLH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	339737	MBW		PAH SIM QSM	LIQUID	1.0		1.00		
	339738	LCSW		PAH SIM QSM	LIQUID	1.0		1.00		
99335	339561			PAH SIM QSM	GROUND WATER	1.0		0.99	N	

Notes:_____

Method 8270-SV GC/MS Extraction Bench Sheet

(SOP Reference #'s 8270C, 8270D, 8270 SIM)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	45508
Prep Method:	3510
Analyst:	JLH
Date:	8/20/2013
Start Time:	07:30
End Date:	8/20/2013
End Time:	14:00

Matrix: WATER
Balance Used: NA
Ave MW temp(°C): NA

Reagent Lots>>>

Sodium Sulfate	SV0081
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	49542
Acetone	NA
Sulfuric Acid	NA
Sodium Hydroxide	NA

Initial Concentration By: NA
Date: NA
GPC Cleanup? (yes/no): NO
Date: NA
Final Concentration By: AMA/JLH
Date: 8/20/2013

Microwave Cell #	Sample ID	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)	ph Adj. <2 (Yes/No)	pH Adj. >12 Yes/No)
	339737	(MB)		1.00	1.0		
	339738	(LCS)		1.00	1.0		
	339561			0.99	1.0		
		(MS) Parent Sample					
		(MSD)					

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (ml): 1
Spike Concentration (ug/mL): 1
Spike Reference #: SVMS 5793

Surrogate Spike Amount (ml): 1
Surrogate Spike Conc. (ug/mL): 1
Surrogate Spike Reference #: SVMS 5792

Relinquished to: RPN
Date: 8/20/2013

Reviewed By: RED
Date: 8/22/2013

Table 4

8270 SVOC Analysis Data Review Checklist

Analytical Run #: 96939	**Independent Reviewer: RED**
Sequence Date: 8/21/2013	**Date of Review: 8/22/2013**
Analyst/Data Interpreter: RPN	**Approval: yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		SIM PAH
b. SPCC responses.	Avg. RRF ≥ 0.05	**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	**Yes**		**Yes**		
d. Were the standards used for the ICAL uniquely identified?		**Yes**		**Yes**		
e. Was there a DFTPP standard analyzed prior to the ICAL?		**Yes**		**Yes**		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the SPCC within QC limits	RRF ≥ 0.05	**Yes**		**Yes**		
c. Were the CCCs within QC limits	%D ≤ 20%	**Yes**		**Yes**		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		**Yes**		**Yes**		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	**Yes**		**Yes**		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	**Yes**		**Yes**		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	**Yes**		**Yes**		
e. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 96939

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		**Yes**		**Yes**		
b. Were the relative abundance criteria met?		**Yes**		**Yes**		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	**Yes**		**Yes**		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	**Yes**		**Yes**		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the MB results less than the reporting limit (RL)?	< MRL	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples	**Yes**	**No**	**Yes**	**No**	
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		

Additional Comments:

Analytical Run #: 96939

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments		**No**		**No**	
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

S SVOC 8270 WATER Analytical Run
97009 on 8/22/2013

Date Analyzed: 8/22/2013

Date Entered: _____

RPN
08/23/13

Date Reviewed: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339578		8/15/2013	0835			ECC	RVAAP	SVOC 8270 QSM TCLP		M	**4**	
		083SB-0022-0001-IDW								45552			
99335	339580		8/15/2013	0900			ECC	RVAAP	SVOC 8270 QSM TCLP		M	**4**	
		083SB-0021-0001-IDW								45552			
	340736								SVOC 8270 QSM TCLP				
					MBW					45552			
	340737								SVOC 8270 QSM TCLP				
					LCSW					45552			
	340739		8/15/2013	0900					SVOC 8270 QSM TCLP				
		083SB-0021-0001-IDW			MSW	339580				45552			

5 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 8/22/2013

Prep Batch **45,552** Date Prepped: 8/21/2013 Prepped JLH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	340736	MBW		SVOC 8270 QSM TCLP	LIQUID	1.0		1.00		
	340737	LCSW		SVOC 8270 QSM TCLP	LIQUID	1.0		1.00		
99335	339578			SVOC 8270 QSM TCLP	TCLP	1.0		0.10	N	
	339580			SVOC 8270 QSM TCLP	TCLP	1.0		0.10	N	
	340739	MSW	339580	SVOC 8270 QSM TCLP	TCLP	1.0		0.10		

Notes:_____

Method 8270-SV GC/MS Extraction Bench Sheet

(SOP Reference #'s 8270C, 8270D, 8270 SIM)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	45552
Prep Method:	3510
Analyst:	JLH
Date:	8/21/2013
Start Time:	08:00
End Date:	8/22/2013
End Time:	10:00

Matrix: TCLP
Balance Used: NA
Ave MW temp(°C): NA

Reagent Lots>>>

Sodium Sulfate	SV0081
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	49542
Acetone	NA
Sulfuric Acid	SV0033
Sodium Hydroxide	SV0079

Initial Concentration By: NA
Date: NA
GPC Cleanup? (yes/no): NO
Date: NA
Final Concentration By: AMA/JLH
Date: 8/22/2013

Microwave Cell #	Sample ID	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)	ph Adj. <2 (Yes/No)	pH Adj. >12 Yes/No)
	340736	(MB)		1.00	1.0	Y	Y
	340737	(LCS)		1.00	1.0	Y	Y
	339578			0.10	1.0	Y	Y
	339580			0.10	1.0	Y	**Y**
	SBLANK 2364			0.10	1.0	Y	Y
	VBLANK 2364			0.10	1.0	Y	Y
	340739	(MS) Parent Sample		0.10	1.0	Y	Y
		(MSD) 339580					

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (ml): 1
Spike Concentration (ug/mL): 20
Spike Reference #: SVMS 5796

Surrogate Spike Amount (ml): 1
Surrogate Spike Conc. (ug/mL): 20/40
Surrogate Spike Reference #: SVMS 5785

Relinquished to: RPN
Date: 8/22/2013

Reviewed By: RED
Date: 8/26/2013

Table 4

8270 SVOC Analysis Data Review Checklist

Analytical Run #: 97009	**Independent Reviewer: RED**
Sequence Date: 8/22/2013	**Date of Review: 8/26/2013**
Analyst/Data Interpreter: RPN	**Approval: yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		TCLP
b. SPCC responses.	Avg. RRF ≥ 0.05	**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	**Yes**		**Yes**		
d. Were the standards used for the ICAL uniquely identified?		**Yes**		**Yes**		
e. Was there a DFTPP standard analyzed prior to the ICAL?		**Yes**		**Yes**		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the SPCC within QC limits	RRF ≥ 0.05	**Yes**		**Yes**		
c. Were the CCCs within QC limits	%D ≤ 20%	**Yes**		**Yes**		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		**Yes**		**Yes**		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	**Yes**		**Yes**		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	**Yes**		**Yes**		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	**Yes**		**Yes**		
e. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 97009

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		**Yes**		**Yes**		
b. Were the relative abundance criteria met?		**Yes**		**Yes**		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	**Yes**		**Yes**		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	**Yes**		**Yes**		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the MB results less than the reporting limit (RL)?	< MRL	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	TCLP
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**N/A**		**N/A**		

Additional Comments:

Analytical Run #: 97009

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments		**No**		**No**	
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Sequence Name: C:\INSTARCH\Sequence\1S080513.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\1S080513\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

RPN
08/05/13

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	100	1PRIM01	1S080513 ICAL 50ug/ml
2)	Sample	99	1IB01	1S080513 InstrumentBlank
3)	DFTPP	1	1DFTPP99	1DFTPP DFTPP TUNE SVMS5691
4)	Sample	99	1IB02	1S080513 InstrumentBlank
5)	Sample	2	1ICAL7A	1S080513 ICAL 50ug/ml SVMS5703
6)	Sample	3	1ICAL6A	1S080513 ICAL 40ug/ml SVMS5702
7)	Sample	4	1ICAL5A	1S080513 ICAL 30ug/ml SVMS5701
8)	Sample	5	1ICAL4A	1S080513 ICAL 20ug/ml SVMS5700
9)	Sample	6	1ICAL3A	1S080513 ICAL 10ug/ml SVMS5699
10)	Sample	7	1ICAL2A	1S080513 ICAL 5ug/ml SVMS5698
11)	Sample	8	1ICAL1A	1S080513 ICAL 1ug/ml SVMS5697
12)	Sample	9	1ICV1A	1S080513 ICV 20ug/ml SVMS5704
13)	Sample	10	1ICV2A	1S080513 ICV 40ug/ml SVMS5705
14)	Sample	99	1IB03	1S080513 InstrumentBlank
15)	Sample	11	1ICAL7	1S080513 ICAL 50ug/ml SVMS5743
16)	Sample	12	1ICAL6	1S080513 ICAL 40ug/ml SVMS5742
17)	Sample	13	1ICAL5	1S080513 ICAL 30ug/ml SVMS5741
18)	Sample	14	1ICAL4	1S080513 ICAL 20ug/ml SVMS5740
19)	Sample	15	1ICAL3	1S080513 ICAL 10ug/ml SVMS5739
20)	Sample	16	1ICAL2	1S080513 ICAL 5ug/ml SVMS5738
21)	Sample	17	1ICAL1	1S080513 ICAL 1ug/ml SVMS5737
22)	Sample	18	1ICV1	1S080513 ICV 20ug/ml SVMS5744
23)	Sample	19	1ICV2	1S080513 ICV 40ug/ml SVMS5745
24)	Sample	19	1ICV2R	1S080513 ICV 40ug/ml SVMS5745

Sequence Name: C:\INSTARCH\SEQUENCE\2S080713.S
Comment: 8270 SIM PAH
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S080713\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
08/07/13

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	100	2PRIM01	2P080713 PRIMER 2000 ng/mL
2)	Sample	99	2IB01	2P080713 InstrumentBlank
3)	DFTPP	1	2DFTPP15	2SIMDFT DFTPP SVMS5691
4)	Sample	99	2IB03	2P080713 InstrumentBlank
5)	Sample	2	2ICAL7	2P080713 ICAL 2000 ng/mL SVMS5720
6)	Sample	3	2ICAL6	2P080713 ICAL 1500 ng/mL SVMS5719
7)	Sample	4	2ICAL5	2P080713 ICAL 1000 ng/mL SVMS5718
8)	Sample	5	2ICAL4	2P080713 ICAL 500 ng/mL SVMS5717
9)	Sample	6	2ICAL3	2P080713 ICAL 100 ng/mL SVMS5716
10)	Sample	7	2ICAL2	2P080713 ICAL 50 ng/mL SVMS5715
11)	Sample	8	2ICAL1	2P080713 ICAL 20 ng/mL SVMS5714
12)	Sample	9	2ICV1	2P080713 ICV1 500 ng/mL SVMS5721
13)	Sample	10	2ICV2	2P080713 ICV2 1500 ng/mL SVMS5722
14)	Sample	99	2IB04	2P080713 InstrumentBlank
15)	Sample	11	2MBS01	2P080713 96408,MBS,1
16)	Sample	12	311331	2P080713 96408,311331,1
17)	Sample	13	330387	2P080713 96408,330387,1
18)	Sample	13	330387R	2P080713 96408,330387,1

Sequence Name: C:\INSTARCH\Sequence\1S082013.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\1S082013\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
08/20/13

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info		
1)	Sample	99	1IB01	1S080513 InstrumentBlank
2)	DFTPP	1	1DFTPP09	1DFTPP DFTPP TUNE SVMS5691
3)	Sample	2	1CCV10	1S080513 ICAL 20ug/ml SVMS5746
4)	Sample	3	1MRL01	1S080513 MRL 1/5ug/ml SVMS5799
5)	Sample	4	1MDL01	1S080513 MDL 0.5/2.5ug/ml SVMS5798
6)	Sample	5	1MBW01	1S080513 96903,MBW,
7)	Sample	6	1LCSW01	1S080513 96903,LCSW,
8)	Sample	7	339561	1S080513 96903,339561,
9)	Sample	3	1MRL02	1S080513 MRL 1/5ug/ml SVMS5799
10)	Sample	4	1MDL02	1S080513 MDL 0.5/2.5ug/ml SVMS5798
11)	Sample	8	339558	1S080513 96901,339558,
12)	Sample	9	339558MS	1S080513 96901,MSW339558,
13)	Sample	10	339558SD	1S080513 96901,MSDW339558,
14)	Sample	99	1IB02	1S080513 InstrumentBlank
15)	Sample	98	1SURR1	1S080513 SURR,SVMS5800,2
16)	Sample	97	1SURR2	1S080513 SURR,SVMS5801,2
17)	Sample	96	1SPIKE1	1S080513 SPIKE,SVMS5796,2
18)	Sample	95	1SPIKE2	1S080513 SPIKE,SVMS5797,2

Sequence Name: C:\INSTARCH\SEQUENCE\2S082113.S
Comment: 8270 SIM PAH
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S082113\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
08/21/13

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	99	2IB01	2P080713 InstrumentBlank
2)	DFTPP	1	2DFTPP23	2SIMDFT DFTPP SVMS5691
3)	Sample	2	2CCV20	2P080713 CCV 500 ng/mL SVMS5723
4)	Sample	3	2MRL01	2P080713 MRL 50ng/mL SVMS5715
5)	Sample	4	2MDL01	2P080713 MDL 20ng/mL SVMS5714
6)	Sample	5	2MBW01	2P080713 96939,MBW,
7)	Sample	6	2LCSW01	2P080713 96939,LCSW,
8)	Sample	7	339561	2P080713 96939,339561,
9)	Sample	3	2MRL02	2P080713 MRL 50ng/mL SVMS5715
10)	Sample	99	2IB02	2P080713 InstrumentBlank
11)	Sample	8	2MBW02	2P080713 96957,MBW,
12)	Sample	9	2LCSW02	2P080713 96957,LCSW,
13)	Sample	10	340199	2P080713 96957,340199,
14)	Sample	11	340200	2P080713 96957,340200,
15)	Sample	12	340201	2P080713 96957,340201,
16)	Sample	13	340203	2P080713 96957,340203,
17)	Sample	14	340204	2P080713 96957,340204,
18)	Sample	15	340203MS	2P080713 96957,MSW340203,
19)	Sample	16	340203SD	2P080713 96957,MSDW340203,
20)	Sample	11	340200D	2P080713 96957,340200,25
21)	Sample	14	340204D	2P080713 96957,340204,20
22)	Sample	99	2IB03	2P080713 InstrumentBlank
23)	Sample	12	340201R	2P080713 96957,340201,
24)	Sample	15	340203SR	2P080713 96957,MSW340203,
25)	Sample	16	340203DR	2P080713 96957,MSDW340203,

Sequence Name: C:\INSTARCH\Sequence\1S082213.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\1S082213\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
08/23/13

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	99	1IB01	1S080513 InstrumentBlank
2)	DFTPP	1	1DFTPP11	1DFTPP DFTPP TUNE SVMS5691
3)	Sample	2	1CCV12	1S080513 ICAL 20ug/ml SVMS5746
4)	Sample	3	1MRL06	1S080513 MRL 1/5ug/ml SVMS5799
5)	Sample	4	1MDL06	1S080513 MDL 0.5/2.5ug/ml SVMS5798
6)	Sample	5	1MBW01	1S080513 97009,MBW,
7)	Sample	6	1MBTV01	1S080513 97009,MBTV,
8)	Sample	7	1MBTS01	1S080513 97009,MBTS,
9)	Sample	8	1LCSW01	1S080513 97009,LCSW,
10)	Sample	9	339578	1S080513 97009,339578,
11)	Sample	10	339580	1S080513 97009,339580,
12)	Sample	11	339580MS	1S080513 97009,MSW339580,
13)	Sample	3	1MRL07	1S080513 MRL 1/5ug/ml SVMS5799
14)	Sample	4	1MDL07	1S080513 MDL 0.5/2.5ug/ml SVMS5798
15)	Sample	12	1MBS03	1S080513 97038,MBS,
16)	Sample	13	1LCSS03	1S080513 97038,LCSS,
17)	Sample	14	337811	1S080513 97038,337811,
18)	Sample	15	337812	1S080513 97038,337812,
19)	Sample	16	337813	1S080513 97038,337813,
20)	Sample	17	337815	1S080513 97038,337815,
21)	Sample	18	337818	1S080513 97038,337818,
22)	Sample	19	337820	1S080513 97038,337820,
23)	Sample	20	337822	1S080513 97038,337822,
24)	Sample	21	337824	1S080513 97038,337824,
25)	Sample	22	337826	1S080513 97038,337826,
26)	Sample	23	337828	1S080513 97038,337828,
27)	Sample	24	337830	1S080513 97038,337830,
28)	Sample	25	337832	1S080513 97038,337832,
29)	Sample	26	337834	1S080513 97038,337834,
30)	Sample	27	337815MS	1S080513 97038,MSS337815,
31)	Sample	28	337815SD	1S080513 97038,MSDS337815,
32)	Sample	99	1IB02	1S080513 InstrumentBlank
33)	Sample	3	1MRL08	1S080513 MRL 1/5ug/ml SVMS5799
34)	Sample	4	1MDL08	1S080513 MDL 0.5/2.5ug/ml SVMS5798

8270 SPIKE 20 ug/mL

SVMS5789 RPN 07/31/13 x2/28/2014	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	8270 MEGAMIX	RESTEK	31850	S2840	A094198	1000	200	10	20
	Benzidines	RESTEK	31834	S2760	A089639	2000	100	10	20
	Custom Mix	SPEX	SVO-CTWI-6	S2792A	T1120618006	2000	100	10	20
	Biphenyl	SPEX	S-500	S2837B	T1120507005	1000	200	10	20
	Additions Std	Restek	31902	S2839	A095426	1000	200	10	20
	Acetone	JTBaker		N/A	40219	99.9%			

8270 ICV Working Standards

RPN 08/05/13 x 10/9/2013

	STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICV1	SVMS790	SVMS5639	100	100	0.5	20
ICV2	SVMS5790A	SVMS5639	100	200	0.5	40

8270 SIM Internal Standards

SVMS 5791 RPN 8/7/2013 02/06/14	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. µg/mL	V added µL	V final mL	CONC final µg/mL
	SV Internal Standards	Restek	31206	S2810D	A094182	2000	50	1	100
	MeCl2	JTBaker			46729	99%	950		

8270 SIM SURROGATES 1.0 ug/mL

SVMS 5792 RPN 08/12/13 x2/11/2014	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	B/N SURR.	RESTEK	31062	S2811B	A092395	5000	20	100	1
	Acetone	JT Baker		N/A	40219	99.9%			

8270SIM/PAH SPIKE 1.0 ug/mL

SVMS 5793 RPN 8/12/2013 X11/11/2013	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	8270 Cal Mix#5	RESTEK	31995	S2739	A089366	2000	50	100	1
	Acetone	JTBaker			40219				

8270 SIM/PEST SPIKE 1.0 ug/mL

SVMS 5794 RPN 08/12/13 x2/11/2014	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	Conc final ug/mL
	List 1 Pesticide Std	AccuStandard	MDA-PEST-01-R1	S2873	210101300-01	500	100	50	1
	Acetone	JTBaker		N/A	40219	99.9%			

8270 TCLP SPIKE 20 ug/mL

SVMS5795 RPN 8/12//2013 X2/11/2014	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	TCLP ACID MIX	Restek	31027	S2869	A095963	2000	500	50	20
	TCLP B/N MIX	Restek	31028	S2870	A096239	2000	500	50	20
	Acetone	JTBaker		N/A	40219	99.9%			

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

RPN
07/11/13
x 10/9/2013

8270 SIM SCAN Add. Comp. Calibration Working Standards

	STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS5774	SVMS5638	100	5	0.5	1
ICAL2	SVMS5775	SVMS5638	100	25	0.5	5
ICAL3	SVMS5776	SVMS5638	100	50	0.5	10
ICAL4	SVMS5777	SVMS5638	100	100	0.5	20
ICAL5	SVMS5778	SVMS5638	100	150	0.5	30
ICAL6	SVMS5779	SVMS5638	100	200	0.5	40
ICAL7	SVMS5780	SVMS5638	100	250	0.5	50
ICV1	SVMS5781	SVMS5639	100	50	0.5	10
ICV2	SVMS5782	SVMS5639	100	150	0.5	30
CCV	SVMS5783	SVMS5638	100	100	0.5	20

SVMS5784

RPN
7/16/2013
X1/15/2014

8270 SURROGATES BN/A 20/40 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
ACID SURR.	RESTEK	31063	S2812B	A093111	10000	400	100	40
B/N SURR.	RESTEK	31062	S2811B	A092395	5000	400	100	20
Acetone	JTBaker		N/A	40219	99.9%			

SVMS5785

RPN
7/16/2013
X1/15/2014

8270 SURROGATES BN/A 20/40 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
ACID SURR.	RESTEK	31063	S2812B	A093111	10000	400	100	40
B/N SURR.	RESTEK	31062	S2811B	A092395	5000	400	100	20
Acetone	JTBaker		N/A	40219	99.9%			

SVMS 5786
RED
07/18/13
x1/17/2014

8270 SIM SURROGATES 1.0 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
B/N SURR.	RESTEK	31062	S2811B	A092395	5000	20	100	1
Acetone	JT Baker		N/A	40219	99.9%			

SVMS5787

RPN
7/18/2013
x1/17/2014

8270 PHENOLS SPIKE 20 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
Phenols Mix#1	RESTEK	31088	S2833	A091994	2000	500	50	20
Phenols Mix#2	RESTEK	31089	S2834	A083736	2000	500	50	20
Acetone	JTBaker		N/A	40219	99.9%			

SVMS 5788
RPN
7/19/2013
01/18/14

8270 SIM Internal Standards

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. µg/mL	V added µL	V final mL	CONC final µg/mL
SV Internal Standards	Restek	31206	S2810C	A094182	2000	50	1	100
MeCl2	JTBaker			46729	99%	950		

Signed _____ Date _____ Signed _____ Date _____

SVMS 5736
6/18/2013
x 12/17/2013

Phenols MDL mix @ 4.0 µg/ml
50µl Phenols mix #1 (S2833) and
50µl Phenols Mix #2 (S2834
diluted to 25 µl w/ Acetone.
Final conc: 3/4 Phenols 8.0µg/ml, other phenols 4.0µg/ml
RPN 6/18

RPN

8270 Calibration Working Standards

RPN
06/18/13
x 10/9/2013

	STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS5737	SVMS5636	100	5	0.5	1
ICAL2	SVMS5738	SVMS5636	100	25	0.5	5
ICAL3	SVMS5739	SVMS5636	100	50	0.5	10
ICAL4	SVMS5740	SVMS5636	100	100	0.5	20
ICAL5	SVMS5741	SVMS5636	100	150	0.5	30
ICAL6	SVMS5742	SVMS5636	100	200	0.5	40
ICAL7	SVMS5743	SVMS5636	100	250	0.5	50
ICV1	SVMS5744	SVMS5637	100	100	0.5	20
ICV2	SVMS5745	SVMS5637	100	200	0.5	40
CCV	SVMS5746	SVMS5636	100	100	0.5	20

RPN 6/19

8270 SPIKE 20 ug/mL

SVMS 5747

RPN
06/19/13
x12/18/2013

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
8270 BNA Mix	NSI Solns	C701	S2789	22	1000	500	25	20
Benzidines	RESTEK	31834	S2803	A091130	2000	250	25	20
SVO-CTWI-6	SPEX	SVO-CTWI-6	S2619C	T1120618006	2000	250	25	20
Biphenyl	SPEX	S-500	S2790	T1120507005	1000	500	25	20
Additions Std	Restek	31902	S2787	A088234	1000	500	25	20
Acetone	JTBaker		N/A	K48E17	99.9%			

RPN 6/25

8270 SURROGATES BN/A 20/40 ug/mL

SVMS5748

RPN
6/25/2013
X12/24/2013

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
ACID SURR.	RESTEK	31063	S2778B	A093111	10000	200	50	40
B/N SURR.	RESTEK	31062	S2779B	A092395	5000	200	50	20
Acetone	JTBaker		N/A	K48E17	99.9%			

SVMS 5749
6/27/2013
x 12/26/2013

o-Terphenyl-d14 Stock soln.
0.0538 g o-Terphenyl-d14 solid S2485
dissolved and made up to 10.0ml w/ MeCl2

RPN

Continued on Page

Read and Understood By

Signed Date Signed Date

8270 SIM PAH Calibration Working Standards

RPN
05/14/13
x11/11/2013

	STD ID	PARENT STD	PARENT CONC (ng/ml)	Vol STD (uL)	Vol final (mL)	CONC final (ng/mL)
ICAL1	SVMS5714	SVMS5712	20000	10	10	20
ICAL2	SVMS5715	SVMS5712	20000	25	10	50
ICAL3	SVMS5716	SVMS5712	20000	50	10	100
ICAL4	SVMS5717	SVMS5712	20000	250	10	500
ICAL5	SVMS5718	SVMS5712	20000	500	10	1000
ICAL6	SVMS5719	SVMS5712	20000	750	10	1500
ICAL7	SVMS5720	SVMS5712	20000	1000	10	2000
ICV1	SVMS5721	SVMS5713	20000	250	10	500
ICV2	SVMS5722	SVMS5713	20000	750	10	1500
CCV	SVMS5723	SVMS5712	20000	250	10	500

8270 SURROGATES BN/A 20/40 ug/mL

SVMS5724

RPN
5/17/2013
X11/16/2013

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
ACID SURR.	RESTEK	31063	S2778A	A093111	10000	400	100	40
B/N SURR.	RESTEK	31062	S2779A	A092395	5000	400	100	20
Acetone	JTBaker		N/A	K48E17	99.9%			

8270 SURROGATES BN/A 20/40 ug/mL

SVMS5725

RPN
5/17/2013
X11/16/2013

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
ACID SURR.	RESTEK	31063	S2778A	A093111	10000	200	50	40
B/N SURR.	RESTEK	31062	S2779A	A092395	5000	200	50	20
Acetone	JTBaker		N/A	K48E17	99.9%			

8270 SIM Internal Standards

SVMS 5726
RPN
5/22/2013
11/21/13

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. µg/mL	V added µL	V final mL	CONC final µg/mL
SV Internal Standards	Restek	31206	S2805B	A092717	2000	50	1	100
MeCl2	JTBaker			36684	99%	950		

8270 SIM SURROGATES 1.0 ug/mL

SVMS 5727
RPN
05/22/13
x10/09/2013

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
B/N SURR.	RESTEK	31062	S2670A	A088330	5000	20	100	1
Acetone	JT Baker		N/A	K48E17	99.9%			

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

DFTPP TUNE MIX 50µg/ml

SVMS 5691 RPN 4/23/2013 X10/22/2013	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	GC/MS Tuning Mix	Restek	31615	S2743	A085102	1000	500	10	50
	MeCl2	JTBaker			36684	99%			

8270 SIM Internal Standards

SVMS 5692 RPN 04/24/13 x10/23/2013	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	SV I.S.	RESTEK	31206	S2805A	A092717	2000	50	1	100
	MeCL2	JT Baker			36684				

8270 alpha-Terpineol SPIKE 20.0 ug/mL

SVMS 5693 RPN 4/26/2013 x10/25/2013	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	alpha-Terpineol	Restek	33912	S2658	A90192	2000	250	25	20
	Acetone	JTBaker			K48E17				

SVMS 5694 8270 α-Terpineol LOD/LOQ Spike @ 2.0 µg/ml
4/26/2013 1.0 ml of SVMS 5693 @ 20.0 µg/ml
x10/25/2013 Diluted to 10.0 ml with Acetone.

alpha-Terpineol ICAL STOCK STD. 100µg/ml

SVMS5695 RPN 4/29//2013 x10/28/2013	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	alpha-Terpineol	RESTEK	33912	S2657	A089867	2000	250	5	100
	MeCl2	JTBaker			36684				

alpha-Terpineol ICV STOCK STD. 100µg/ml

SVMS5696 RPN 4/29//2013 x10/28/2013	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
	alpha-Terpineol	RESTEK	33912	S2658	A090192	2000	250	5	100
	MeCl2	JTBaker			36684				

8270 Additional Compounds+alphaTerpineol Calibration Working Standards

RPN 04/29/13 10/28/2013

	STD ID	PARENT STD	PARENT CONC µg/mL	Vol STD uL	Parent a-Terpineol STD	CONC µg/ml	Vol µl	Vol final ml	CONC final µg/mL
ICAL1	SVMS5697	SVMS5638	100	5	SVMS5695	100	5	0.5	1
ICAL2	SVMS5698	SVMS5638	100	25	SVMS5695	100	25	0.5	5
ICAL3	SVMS5699	SVMS5638	100	50	SVMS5695	100	50	0.5	10
ICAL4	SVMS5700	SVMS5638	100	100	SVMS5695	100	100	0.5	20
ICAL5	SVMS5701	SVMS5638	100	150	SVMS5695	100	150	0.5	30
ICAL6	SVMS5702	SVMS5638	100	200	SVMS5695	100	200	0.5	40
ICAL7	SVMS5703	SVMS5638	100	250	SVMS5695	100	250	0.5	50
ICV1	SVMS5704	SVMS5639	100	100	SVMS5696	100	100	0.5	20
ICV2	SVMS5705	SVMS5639	100	200	SVMS5696	100	200	0.5	40
CCV	SVMS5706	SVMS5638	100	100	SVMS5695	100	100	0.5	20

on Page

Signed Date Signed Date

8270 SPIKE 20 ug/mL

SVMS 5796	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
RPN 08/19/13 x2/18/2014	8270 MEGAMIX	RESTEK	31850	S2867	A095842	1000	1000	50	20
	Benzidines	RESTEK	31834	S2804	A092930	2000	500	50	20
	Custom Mix	SPEX	SVO-CTWI-6	S2793A	T1120618007	2000	500	50	20
	Biphenyl	SPEX	S-500	S2838	T1130321008	1000	1000	50	20
	Additions Std	Restek	31902	S2868	A095426	1000	1000	50	20
	Acetone	JTBaker		N/A	40219	99.9%			

8270 SPIKE 20 ug/mL

SVMS5797	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
RPN 08/19/13 x2/18/2014	8270 MEGAMIX	RESTEK	31850	S2867	A095842	1000	200	10	20
	Benzidines	RESTEK	31834	S2804	A092930	2000	100	10	20
	Custom Mix	SPEX	SVO-CTWI-6	S2793A	T1120618007	2000	100	10	20
	Biphenyl	SPEX	S-500	S2838	T1130321008	1000	200	10	20
	Additions Std	Restek	31902	S2868	A095426	1000	200	10	20
	Acetone	JTBaker		N/A	40219	99.9%			

SVMS 5798 8270 MDL @ 0.5/2.5 µg/mL
8/20/2013 25µL SVMS 5636 @ 100 µg/mL,
x 10/9/2013 5 µL S 2833 Phenols Mix #1 @ 2000 µg/mL,
5 µL S 2834 Phenols Mix #2 @ 2000 µg/mL and
5 µL S 2758 Benzoic Acid @ 2000 µg/mL
↳ diluted to 5.0 mL with MeCl2

SVMS 5799 8270 MRL @ 1.0/5.0 µg/mL
8/20/2013 50µL SVMS 5636 @ 100 µg/mL
x 10/9/2013 10µL S 2833 Phenols Mix #1 @ 2000 µg/mL
10µL S 2834 Phenols Mix #2 @ 2000 µg/mL and
10µL S 2758 Benzoic Acid @ 2000 µg/mL
↳ diluted to 5.0 mL with MeCl2

8270 SURROGATES BN/A 20/40 ug/mL

SVMS5800	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
RPN 8/21/2013 X2/20/2014	ACID SURR.	RESTEK	31063	S2861A	A093111	10000	400	100	40
	B/N SURR.	RESTEK	31062	S2862A	A092395	5000	400	100	20
	Acetone	JTBaker		N/A	40219	99.9%			

8270 SURROGATES BN/A 20/40 ug/mL

SVMS5801	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
RPN 8/21/2013 X2/20/2014	ACID SURR.	RESTEK	31063	S2861A	A093111	10000	400	100	40
	B/N SURR.	RESTEK	31062	S2862A	A092395	5000	400	100	20
	Acetone	JTBaker		N/A	40219	99.9%			

Signed Date Signed Date

PESTICIDE
QUALITY CONTROL SUMMARY
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1D-1

PESTICIDE ORGANICS ANALYSIS

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TCLP	SDG No.:	99335
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	339580
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	08/21/2013 / 08:00
Analytical Method:	EPA 8081B	Analytical Prep Batch #	45551
Analytical Run #:	97001	Dilution Factor:	1.00
Date & Time Analyzed:	08/23/2013 / 16:19		
Cleanup Date/Time/Type:	, 08/22/2013 10:30 (Sulfur) ,	,	
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		08/20/2013 / 07:00	
ICAL Calibration #:	082213pstic	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
5103-71-9	alpha-Chlordane	0.00031	J B	0.000090	0.00010	0.00040	0.00040
72-20-8	Endrin	0.00010	U	0.000060	0.00010	0.00024	0.00024
5103-74-2	gamma-Chlordane	0.00010	U	0.000070	0.00010	0.00024	0.00024
76-44-8	Heptachlor	0.00038	P	0.000060	0.00010	0.00024	0.00024
1024-57-3	Heptachlor epoxide	0.00010	U	0.000070	0.00010	0.00024	0.00024
58-89-9	Lindane	0.00010	U	0.000070	0.00010	0.00024	0.00024
72-43-5	Methoxychlor	0.00010	U	0.000060	0.00010	0.00040	0.00040
8001-35-2	Toxaphene	0.0030	U	0.0018	0.0030	0.0060	0.0060

CT LABORATORIES
delivering more than data from your environmental analyses

1D-1

PESTICIDE ORGANICS ANALYSIS

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	TCLP	SDG No.:	99335
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	339578
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	08/21/2013 / 08:00
Analytical Method:	EPA 8081B	Analytical Prep Batch #	45551
Analytical Run #:	97001	Dilution Factor:	1.00
Date & Time Analyzed:	08/23/2013 / 16:36		
Cleanup Date/Time/Type:	, 08/22/2013 10:30 (Sulfur) ,	,	
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		08/20/2013 / 07:00	
ICAL Calibration #:	082213pstic	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
5103-71-9	alpha-Chlordane	0.00017	J B	0.000090	0.00010	0.00040	0.00040
72-20-8	Endrin	0.00010	U	0.000060	0.00010	0.00024	0.00024
5103-74-2	gamma-Chlordane	0.00010	U	0.000070	0.00010	0.00024	0.00024
76-44-8	Heptachlor	0.00037	P	0.000060	0.00010	0.00024	0.00024
1024-57-3	Heptachlor epoxide	0.00010	U	0.000070	0.00010	0.00024	0.00024
58-89-9	Lindane	0.00010	U	0.000070	0.00010	0.00024	0.00024
72-43-5	Methoxychlor	0.00010	U	0.000060	0.00010	0.00040	0.00040
8001-35-2	Toxaphene	0.0030	U	0.0018	0.0030	0.0060	0.0060

CT LABORATORIES
delivering more than data from your environmental analyses

1D-1

PESTICIDE ORGANICS ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	08/19/2013 / 08:00
Analytical Method:	EPA 8081B	Analytical Prep Batch #	45504
Analytical Run #:	96883	Dilution Factor:	1.00
Date & Time Analyzed:	08/23/2013 / 13:49		
Cleanup Date/Time/Type:	, 08/20/2013 16:00 (Sulfur) ,		,
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	082213pstic	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
72-54-8	4,4'-DDD	0.010	U	0.0060	0.010	0.024	0.024
72-55-9	4,4'-DDE	0.010	U	0.0060	0.010	0.040	0.040
50-29-3	4,4'-DDT	0.010	U	0.0070	0.010	0.024	0.024
309-00-2	Aldrin	0.010	U	0.0060	0.010	0.024	0.024
319-84-6	alpha-BHC	0.010	U	0.0050	0.010	0.024	0.024
5103-71-9	alpha-Chlordane	0.010	U	0.0090	0.010	0.040	0.040
319-85-7	beta-BHC	0.010	U	0.0090	0.010	0.040	0.040
319-86-8	delta-BHC	0.010	U	0.0050	0.010	0.024	0.024
60-57-1	Dieldrin	0.010	U	0.0060	0.010	0.024	0.024
959-98-8	Endosulfan I	0.010	U	0.0090	0.010	0.040	0.040
33213-65-9	Endosulfan II	0.010	U	0.0070	0.010	0.024	0.024
1031-07-8	Endosulfan sulfate	0.010	U	0.0060	0.010	0.024	0.024
72-20-8	Endrin	0.010	U	0.0060	0.010	0.024	0.024
7421-93-4	Endrin aldehyde	0.010	U	0.0090	0.010	0.040	0.040
53494-70-5	Endrin ketone	0.010	U	0.0070	0.010	0.024	0.024
5103-74-2	gamma-Chlordane	0.010	U	0.0070	0.010	0.024	0.024
76-44-8	Heptachlor	0.010	U	0.0060	0.010	0.024	0.024
1024-57-3	Heptachlor epoxide	0.010	U	0.0070	0.010	0.024	0.024
58-89-9	Lindane	0.010	U	0.0070	0.010	0.024	0.024
72-43-5	Methoxychlor	0.010	U	0.0060	0.010	0.040	0.040
8001-35-2	Toxaphene	0.20	U	0.18	0.20	0.60	0.60

CT LABORATORIES
delivering more than data from your environmental analyses

1D-3

Sample Description

METHOD BLANK

PESTICIDE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	339717
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	08/19/2013 / 08:00
Analytical Method:	EPA 8081B	Analytical Prep Batch #	45504
Analytical Run #:	96883	Dilution Factor:	1.00
Cleanup Date/Time/Type:	08/20/2013 16:00 (Sulfur)		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	082213pstic	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
72-54-8	4,4'-DDD	08/23/2013	12:59	0.006	U	0.006	0.024	***0.006***
72-55-9	4,4'-DDE	08/23/2013	12:59	0.006	U	0.006	0.040	***0.020***
50-29-3	4,4'-DDT	08/23/2013	12:59	0.007	U	0.007	0.024	***0.012***
309-00-2	Aldrin	08/23/2013	12:59	0.006	U	0.006	0.024	***0.012***
319-84-6	alpha-BHC	08/23/2013	12:59	0.005	U	0.005	0.024	***0.012***
5103-71-9	alpha-Chlordane	08/23/2013	12:59	0.009	U	0.009	0.040	***0.020***
319-85-7	beta-BHC	08/23/2013	12:59	0.009	U	0.009	0.040	***0.020***
319-86-8	delta-BHC	08/23/2013	12:59	0.005	U	0.005	0.024	***0.012***
60-57-1	Dieldrin	08/23/2013	12:59	0.006	U	0.006	0.024	***0.012***
959-98-8	Endosulfan I	08/23/2013	12:59	0.009	U	0.009	0.040	***0.020***
33213-65-9	Endosulfan II	08/23/2013	12:59	0.007	U	0.007	0.024	***0.012***
1031-07-8	Endosulfan sulfate	08/23/2013	12:59	0.006	U	0.006	0.024	***0.012***
72-20-8	Endrin	08/23/2013	12:59	0.006	U	0.006	0.024	***0.012***
7421-93-4	Endrin aldehyde	08/23/2013	12:59	0.009	U	0.009	0.040	***0.020***
53494-70-5	Endrin ketone	08/23/2013	12:59	0.007	U	0.007	0.024	***0.012***
5103-74-2	gamma-Chlordane	08/23/2013	12:59	0.007	U	0.007	0.024	***0.012***
76-44-8	Heptachlor	08/23/2013	12:59	0.006	U	0.006	0.024	***0.012***
1024-57-3	Heptachlor epoxide	08/23/2013	12:59	0.007	U	0.007	0.024	***0.012***
58-89-9	Lindane	08/23/2013	12:59	0.007	U	0.007	0.024	***0.012***
72-43-5	Methoxychlor	08/23/2013	12:59	0.006	U	0.006	0.040	***0.020***
8001-35-2	Toxaphene	08/23/2013	12:59	0.176	U	0.176	0.600	***0.300***

CT LABORATORIES
delivering more than data from your environmental analyses

1D-3

Sample Description: **METHOD BLANK**

PESTICIDE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	340732
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	08/21/2013 / 08:00
Analytical Method:	EPA 8081B	Analytical Prep Batch #	45551
Analytical Run #:	97001	Dilution Factor:	1.00
Cleanup Date/Time/Type:	, 08/22/2013 10:30 (Sulfur) ,		,
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			08/20/2013 / 07:00
ICAL Calibration #:	082213pstic	Concentration Units:	mg/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
5103-71-9	alpha-Chlordane	08/23/2013	14:56	0.0000160	B	0.000009	0.000040	***0.000020***
72-20-8	Endrin	08/23/2013	14:56	0.000006	U	0.000006	0.000024	***0.000012***
5103-74-2	gamma-Chlordane	08/23/2013	14:56	0.000007	U	0.000007	0.000040	***0.000020***
76-44-8	Heptachlor	08/23/2013	14:56	0.000006	U	0.000006	0.000024	***0.000012***
1024-57-3	Heptachlor epoxide	08/23/2013	14:56	0.000007	U	0.000007	0.000024	***0.000012***
58-89-9	Lindane	08/23/2013	14:56	0.000007	U	0.000007	0.000024	***0.000012***
72-43-5	Methoxychlor	08/23/2013	14:56	0.000006	U	0.000006	0.000040	***0.000020***
8001-35-2	Toxaphene	08/23/2013	14:56	0.000176	U	0.000176	0.00050	***0.00025***

CT LABORATORIES
delivering more than data from your environmental analyses

2E-1

WATER PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: ECC-RVAAP

Analytical Method: EPA 8081B SDG: 99335

Analytical Run #: 96883 ICAL Calibration #: 082213pstic

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	339561				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	75	25	140	
SURR:Decachlorobiphenyl	100	76	30	135	

CTLab #	339570				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	70	25	140	
SURR:Decachlorobiphenyl	100	78	30	135	

CTLab #	339717	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene		68.3	25	140	
SURR:Decachlorobiphenyl		73.3	30	135	

CTLab #	339718	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	64.3	25	140	
SURR:Decachlorobiphenyl	100	76.1	30	135	

CT LABORATORIES
delivering more than data from your environmental analyses

2E-1

WATER PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Analytical Method: EPA 8081B | SDG: 99335

Analytical Run #: 97001 | ICAL Calibration #: 082213pstic

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) | GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	339578				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	85	25	140	
SURR:Decachlorobiphenyl	100	100	30	135	

CTLab #	339580				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	67	25	140	
SURR:Decachlorobiphenyl	100	40	30	135	

CTLab #	340732	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	77.5	25	140	
SURR:Decachlorobiphenyl	100	92.4	30	135	

CTLab #	340733	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	81.2	25	140	
SURR:Decachlorobiphenyl	100	89.6	30	135	

CTLab #	340735	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	82.8	25	140	
SURR:Decachlorobiphenyl	100	91.1	30	135	

CT LABORATORIES
delivering more than data from your environmental analyses

3E

WATER PESTICIDE MATRIX SPIKE RECOVERY

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: TCLP SDG No.: 99335

Analytical Method: EPA 8081B Concentration Units: mg/L

Analytical Run #: 97001 Sample No.: 340735 Parent Sample No.: 339578

Analytical Prep Batch #: 45551 Analytical Preparation Date/Time: 08/21/2013 08:00

ICAL Calibration #: 082213pstic

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
alpha-Chlordane	08/23/2013	16:52	65-125	0.00409	0.00017	0.00400	98	
Endrin	08/23/2013	16:52	55-135	0.00467	BDL	0.00400	117	
gamma-Chlordane	08/23/2013	16:52	60-125	0.00402	0.00010	0.00400	98	
Heptachlor	08/23/2013	16:52	40-130	0.00415	0.00037	0.00400	94	
Heptachlor epoxide	08/23/2013	16:52	60-130	0.00404	BDL	0.00400	101	
Lindane	08/23/2013	16:52	25-135	0.00403	BDL	0.00400	101	
Methoxychlor	08/23/2013	16:52	55-150	0.00442	BDL	0.00400	110	
Toxaphene	08/23/2013	16:52	50-150	0	BDL	0.0500	0	*FAIL*

Spike Recovery: 1 out of 8 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3E

Sample Description

LCS

WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Sample No.: 339718
SDG No.: 99335
Analytical Method: EPA 8081B
Concentration Units: ug/L

Sample No.: 339718
Parent Sample No.: 0
Analytical Prep Batch #: 45504
Analytical Preparation Date/Time: 08/19/2013 08:00
Analytical Run #: 96883
ICAL Calibration #: 082213pstic

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
4,4'-DDD	08/23/2013	13:15	25-150	0.373		0.400	93
4,4'-DDE	08/23/2013	13:15	35-140	0.366		0.400	92
4,4'-DDT	08/23/2013	13:15	45-140	0.377		0.400	94
Aldrin	08/23/2013	13:15	25-140	0.283		0.400	71
alpha-BHC	08/23/2013	13:15	60-130	0.352		0.400	88
alpha-Chlordane	08/23/2013	13:15	65-125	0.360		0.400	90
beta-BHC	08/23/2013	13:15	65-125	0.313		0.400	78
delta-BHC	08/23/2013	13:15	45-135	0.357		0.400	89
Dieldrin	08/23/2013	13:15	60-130	0.365		0.400	91
Endosulfan I	08/23/2013	13:15	50-110	0.354		0.400	88
Endosulfan II	08/23/2013	13:15	30-130	0.371		0.400	93
Endosulfan sulfate	08/23/2013	13:15	55-135	0.377		0.400	94
Endrin	08/23/2013	13:15	55-135	0.398		0.400	100
Endrin aldehyde	08/23/2013	13:15	55-135	0.355		0.400	89
Endrin ketone	08/23/2013	13:15	75-125	0.369		0.400	92
gamma-Chlordane	08/23/2013	13:15	60-125	0.346		0.400	86
Heptachlor	08/23/2013	13:15	40-130	0.326		0.400	82
Heptachlor epoxide	08/23/2013	13:15	60-130	0.358		0.400	90
Lindane	08/23/2013	13:15	25-135	0.355		0.400	89
Methoxychlor	08/23/2013	13:15	55-150	0.382		0.400	96

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Toxaphene	08/23/2013	13:32	73-129	2.34		2.50	94

CT LABORATORIES
delivering more than data from your environmental analyses

3E

Sample Description

WATER PESTICIDE LAB CONTROL SAMPLE

LCS

Lab Name:	CT Laboratories	Contract	ECC-RVAAP
Sample No.:	339718	SDG No.:	99335
Analytical Method:	EPA 8081B	Concentration Units:	ug/L

Spike Recovery: 0 out of 21 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3E

Sample Description

LCS

WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: ECC-RVAAP

Sample No.: 340733 SDG No.: 99335

Analytical Method: EPA 8081B Concentration Units: mg/L

Sample No.: 340733 Parent Sample No.: 0

Analytical Prep Batch #: 45551 Analytical Preparation Date/Time: 08/21/2013 08:00

Analytical Run #: 97001 ICAL Calibration #: 082213pstic

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
alpha-Chlordane	08/23/2013	15:46	65-125	0.000423		0.00040	106
Endrin	08/23/2013	15:46	55-135	0.000467		0.00040	117
gamma-Chlordane	08/23/2013	15:46	60-125	0.000409		0.00040	102
Heptachlor	08/23/2013	15:46	40-130	0.000423		0.00040	106
Heptachlor epoxide	08/23/2013	15:46	60-130	0.000414		0.00040	104
Lindane	08/23/2013	15:46	25-135	0.000409		0.00040	102
Methoxychlor	08/23/2013	15:46	55-150	0.000470		0.00040	118

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Toxaphene	08/23/2013	16:02	50-150	0.00262		0.00250	105

Spike Recovery: 0 out of 8 outside limits

CT Laboratories

4C-1

PESTICIDE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	339717	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/19/2013
Date Analyzed:	08/23/2013	Time Analyzed:	12:59
Analytical Method:	EPA 8081B	Extraction Method:	SW3510
Analytical Run #:	96883	Extraction Batch #:	45504
		ICAL Calibration #:	082213pstic

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	083SB-0023-0001-ER	339561	08/23/2013 13:49
2	MBW	339717	08/23/2013 12:59
3	LCSW	339718	08/23/2013 13:15
4	LCSW	339718	08/23/2013 13:32

CT Laboratories

4C-1

PESTICIDE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	340732	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/21/2013
Date Analyzed:	08/23/2013	Time Analyzed:	14:56
Analytical Method:	EPA 8081B	Extraction Method:	SW3510
Analytical Run #:	97001	Extraction Batch #:	45551
		ICAL Calibration #:	082213pstic

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	083SB-0022-0001-IDW	339578	08/23/2013 16:36
2	083SB-0021-0001-IDW	339580	08/23/2013 16:19
3	MBW	340732	08/23/2013 14:56
4	LCSW	340733	08/23/2013 15:46
5	LCSW	340733	08/23/2013 16:02
6	083SB-0022-0001-IDWMSW	340735	08/23/2013 16:52

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:08

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\006.dat	PEST MRL PP 3946	Aug 23,2013 14:40:08

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	6.062	1.040	30.000	Passed
ALPHABHC	0.002	0.002	2.450	30.000	Passed
LINDANE	0.002	0.002	3.095	30.000	Passed
BETABHC	0.002	0.003	5.353	30.000	Passed
DELTABHC	0.002	0.002	5.100	30.000	Passed
HEPTACHLOR	0.002	0.002	2.419	30.000	Passed
ALDRIN	0.002	0.002	3.678	30.000	Passed
HEPTAEPOX	0.002	0.002	2.888	30.000	Passed
GAMMACHLOR	0.002	0.002	0.164	30.000	Passed
ALPHACHLOR	0.002	0.002	1.782	30.000	Passed
44DDE	0.002	0.002	14.104	30.000	Passed
ENDOI	0.002	0.002	0.127	30.000	Passed
DIELDRIN	0.002	0.002	5.171	30.000	Passed
ENDRIN	0.002	0.002	5.775	30.000	Passed
44DDD	0.002	0.002	8.923	30.000	Passed
ENDOII	0.002	0.002	1.789	30.000	Passed
44DDT	0.002	0.002	8.302	30.000	Passed
ENDRINALDEH	0.002	0.002	3.699	30.000	Passed
METHOXYCL	0.002	0.002	6.288	30.000	Passed
ENDOSULFATE	0.002	0.002	9.147	30.000	Passed
ENDRINKETONE	0.002	0.002	3.445	30.000	Passed
SURRDCBPEST	6.000	5.236	12.736	30.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	5.889	1.847	30.000	Passed
ALPHABHC	0.002	0.002	5.563	30.000	Passed
LINDANE	0.002	0.002	2.711	30.000	Passed
BETABHC	0.002	0.003	12.729	30.000	Passed
DELTABHC	0.002	0.002	6.097	30.000	Passed
HEPTACHLOR	0.002	0.002	0.760	30.000	Passed
ALDRIN	0.002	0.002	5.219	30.000	Passed
HEPTAEPOX	0.002	0.002	2.323	30.000	Passed
GAMMACHLOR	0.002	0.002	4.539	30.000	Passed
ALPHACHLOR	0.002	0.002	4.405	30.000	Passed
ENDOI	0.002	0.002	4.087	30.000	Passed
44DDE	0.002	0.002	8.625	30.000	Passed
DIELDRIN	0.002	0.002	6.133	30.000	Passed
ENDRIN	0.002	0.002	6.569	30.000	Passed
44DDD	0.002	0.002	9.491	30.000	Passed
ENDOII	0.002	0.002	5.486	30.000	Passed
44DDT	0.002	0.002	7.773	30.000	Passed
ENDRINALDEH	0.002	0.002	3.388	30.000	Passed
ENDOSULFATE	0.002	0.002	5.476	30.000	Passed
METHOXYCL	0.002	0.002	7.547	30.000	Passed

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:08

ENDRINKETONE	0.002	0.002	13.517	30.000	**Passed**
SURRDCBPEST	6.000	5.456	9.059	30.000	**Passed**

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:14

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\008.dat	TC MRL PP 3947	Aug 23,2013 14:40:14

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	14.651	1.745	30.000	Passed
Chlordane #1	0.012	0.012	1.214	30.000	Passed
Chlordane #2	0.012	0.012	1.606	30.000	Passed
Chlordane #3	0.012	0.012	1.536	30.000	Passed
Chlordane #4	0.012	0.012	3.548	30.000	Passed
Chlordane #5	0.012	0.012	1.608	30.000	Passed
Toxaphene #1	0.012	0.013	4.558	30.000	Passed
Toxaphene #2	0.012	0.012	2.131	30.000	Passed
Toxaphene #3	0.012	0.012	0.195	30.000	Passed
Toxaphene #4	0.012	0.011	8.509	30.000	Passed
Toxaphene #5	0.012	0.011	7.779	30.000	Passed
SURRDCBPEST	14.400	14.802	2.794	30.000	Passed
Chlordane	0.060	0.061	1.259	30.000	Passed
Toxaphene	0.060	0.059	1.959	30.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	14.527	0.881	30.000	Passed
Chlordane #1	0.012	0.012	2.298	30.000	Passed
Chlordane #2	0.012	0.012	0.352	30.000	Passed
Chlordane #3	0.012	0.013	6.155	30.000	Passed
Chlordane #4	0.012	0.012	3.545	30.000	Passed
Chlordane #5	0.012	0.012	2.578	30.000	Passed
Toxaphene #1	0.012	0.013	6.013	30.000	Passed
Toxaphene #2	0.012	0.012	1.520	30.000	Passed
Toxaphene #3	0.012	0.012	1.368	30.000	Passed
Toxaphene #4	0.012	0.012	1.466	30.000	Passed
Toxaphene #5	0.012	0.012	3.191	30.000	Passed
SURRDCBPEST	14.400	14.777	2.619	30.000	Passed
Chlordane	0.060	0.062	2.845	30.000	Passed
Toxaphene	0.060	0.062	2.712	30.000	Passed

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:52:03

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\036.dat	PEST MRL PP 3946	Aug 24,2013 21:52:02

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	6.369	6.154	30.000	Passed
ALPHABHC	0.002	0.002	2.423	30.000	Passed
LINDANE	0.002	0.002	1.098	30.000	Passed
BETABHC	0.002	0.003	22.146	30.000	Passed
DELTABHC	0.002	0.003	6.536	30.000	Passed
HEPTACHLOR	0.002	0.003	7.642	30.000	Passed
ALDRIN	0.002	0.003	5.171	30.000	Passed
HEPTAEPOX	0.002	0.003	4.347	30.000	Passed
GAMMACHLOR	0.002	0.002	3.673	30.000	Passed
ALPHACHLOR	0.002	0.002	1.526	30.000	Passed
44DDE	0.002	0.002	1.534	30.000	Passed
ENDOI	0.002	0.002	0.332	30.000	Passed
DIELDRIN	0.002	0.002	0.412	30.000	Passed
ENDRIN	0.002	0.002	3.803	30.000	Passed
44DDD	0.002	0.002	1.644	30.000	Passed
ENDOII	0.002	0.002	2.688	30.000	Passed
44DDT	0.002	0.002	0.042	30.000	Passed
ENDRINALDEH	0.002	0.002	2.921	30.000	Passed
METHOXYCL	0.002	0.003	6.721	30.000	Passed
ENDOSULFATE	0.002	0.002	1.864	30.000	Passed
ENDRINKETONE	0.002	0.003	7.416	30.000	Passed
SURRDCBPEST	6.000	6.414	6.897	30.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	6.338	5.638	30.000	Passed
ALPHABHC	0.002	0.002	1.649	30.000	Passed
LINDANE	0.002	0.003	7.162	30.000	Passed
BETABHC	0.002	0.003	16.833	30.000	Passed
DELTABHC	0.002	0.002	1.477	30.000	Passed
HEPTACHLOR	0.002	0.002	0.905	30.000	Passed
ALDRIN	0.002	0.002	0.133	30.000	Passed
HEPTAEPOX	0.002	0.002	2.877	30.000	Passed
GAMMACHLOR	0.002	0.002	1.546	30.000	Passed
ALPHACHLOR	0.002	0.002	0.943	30.000	Passed
ENDOI	0.002	0.002	1.529	30.000	Passed
44DDE	0.002	0.002	1.678	30.000	Passed
DIELDRIN	0.002	0.002	0.295	30.000	Passed
ENDRIN	0.002	0.002	1.427	30.000	Passed
44DDD	0.002	0.002	0.533	30.000	Passed
ENDOII	0.002	0.002	1.781	30.000	Passed
44DDT	0.002	0.002	0.422	30.000	Passed
ENDRINALDEH	0.002	0.003	4.621	30.000	Passed
ENDOSULFATE	0.002	0.002	3.565	30.000	Passed
METHOXYCL	0.002	0.003	5.596	30.000	Passed

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:52:03

ENDRINKETONE	0.002	0.002	3.199	30.000	**Passed**
SURRDCBPEST	6.000	6.490	8.173	30.000	**Passed**

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:52:09

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\038.dat	TC MRL PP 3947	Aug 24,2013 21:52:09

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	15.016	4.276	30.000	Passed
Chlordane #1	0.012	0.012	2.781	30.000	Passed
Chlordane #2	0.012	0.013	6.144	30.000	Passed
Chlordane #3	0.012	0.013	4.648	30.000	Passed
Chlordane #4	0.012	0.012	4.015	30.000	Passed
Chlordane #5	0.012	0.012	0.750	30.000	Passed
Toxaphene #1	0.012	0.013	5.323	30.000	Passed
Toxaphene #2	0.012	0.012	3.483	30.000	Passed
Toxaphene #3	0.012	0.013	4.710	30.000	Passed
Toxaphene #4	0.012	0.011	4.614	30.000	Passed
Toxaphene #5	0.012	0.011	7.378	30.000	Passed
SURRDCBPEST	14.400	15.079	4.714	30.000	Passed
Chlordane	0.060	0.062	3.368	30.000	Passed
Toxaphene	0.060	0.060	0.305	30.000	Passed

back detector

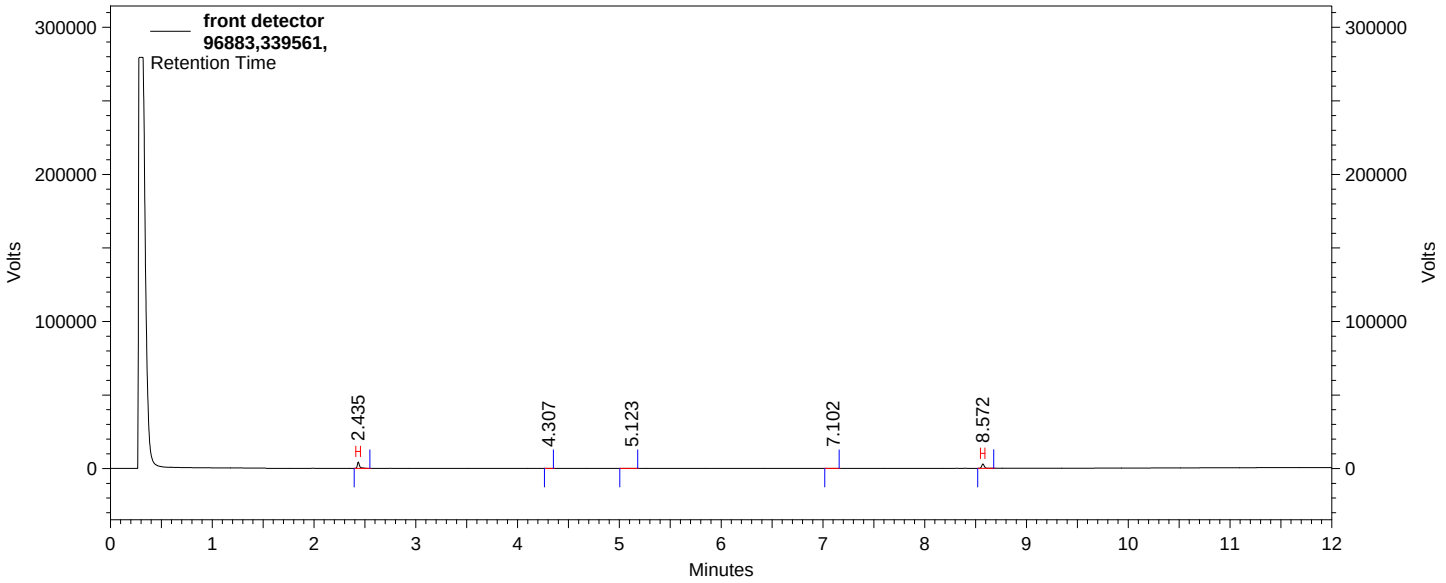
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	15.151	5.213	30.000	Passed
Chlordane #1	0.012	0.013	4.286	30.000	Passed
Chlordane #2	0.012	0.012	2.983	30.000	Passed
Chlordane #3	0.012	0.013	7.860	30.000	Passed
Chlordane #4	0.012	0.013	5.906	30.000	Passed
Chlordane #5	0.012	0.013	4.374	30.000	Passed
Toxaphene #1	0.012	0.013	6.022	30.000	Passed
Toxaphene #2	0.012	0.012	1.264	30.000	Passed
Toxaphene #3	0.012	0.012	1.568	30.000	Passed
Toxaphene #4	0.012	0.012	2.332	30.000	Passed
Toxaphene #5	0.012	0.012	0.026	30.000	Passed
SURRDCBPEST	14.400	15.294	6.207	30.000	Passed
Chlordane	0.060	0.063	5.082	30.000	Passed
Toxaphene	0.060	0.061	2.232	30.000	Passed

PESTICIDE
SAMPLE DATA
DOCUMENTS

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\013.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 96883,339561,
Acquired: Aug 23,2013 13:49:22
Printed: Aug 23,2013 14:40:25

Data Summary: {Data Description}



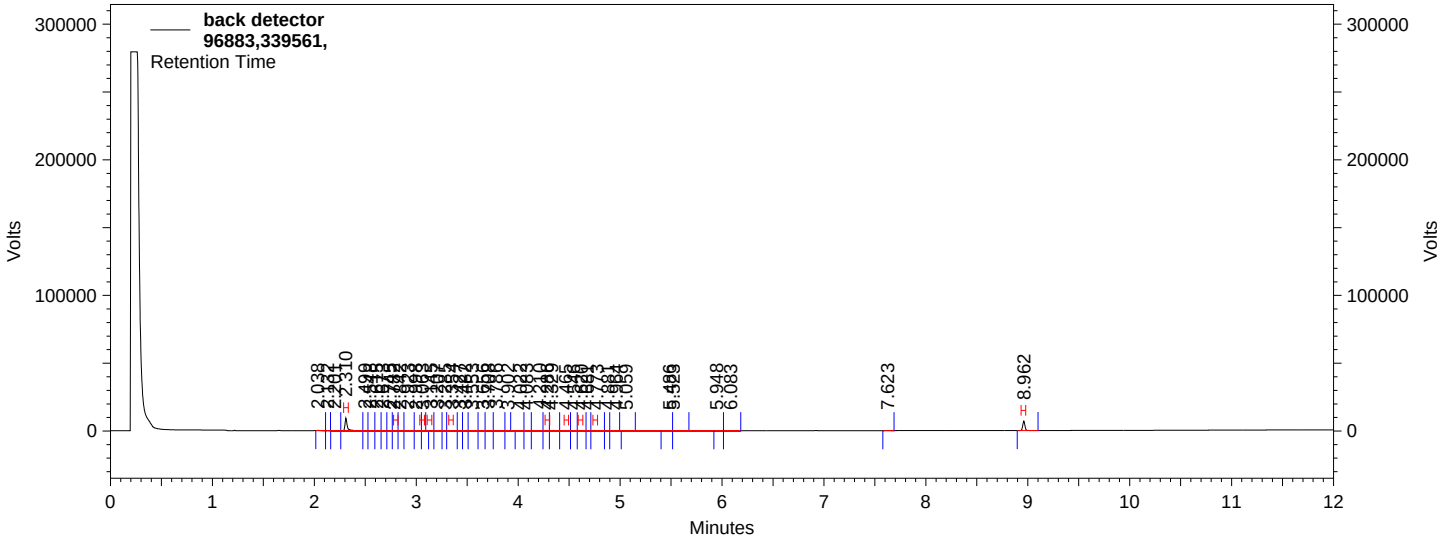
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.435	51328524	75.4817
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
44DDE			0.0000 BDL
ENDOI			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.572	39378556	76.0912

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\013.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 96883,339561,
Acquired: Aug 23,2013 13:49:22
Printed: Aug 23,2013 14:40:25

Data Summary: {Data Description}



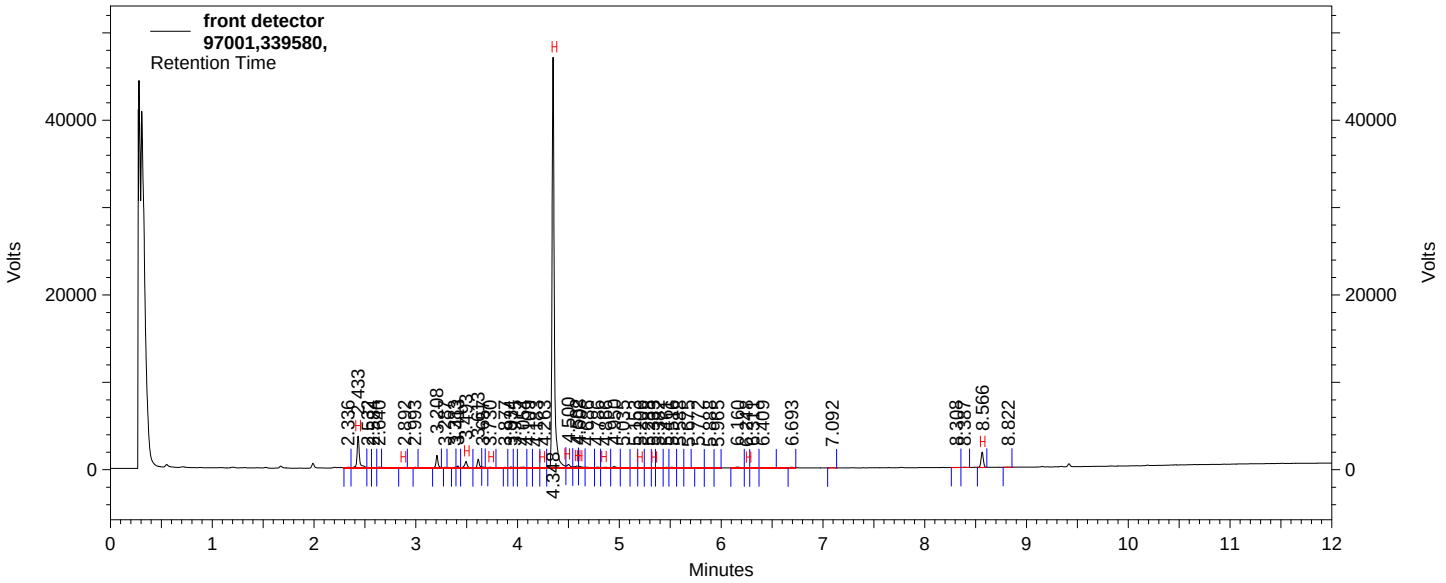
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	112547571	81.0669
ALPHABHC	2.782	1442825	0.0004
LINDANE	3.063	942547	0.0003
BETABHC	3.145	1392602	0.0003
DELTABHC	3.354	3453405	0.0007
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR	4.286	1326814	0.0003
ALPHACHLOR			0.0000 BDL
ENDOI	4.465	1584062	0.0003
44DDE	4.620	1141221	0.0003
DIELDRIN	4.773	1440721	0.0004
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.962	79253716	77.3952

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\022.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,339580,
Acquired: Aug 23,2013 16:19:24
Printed: Aug 23,2013 17:17:13

Data Summary: {Data Description}



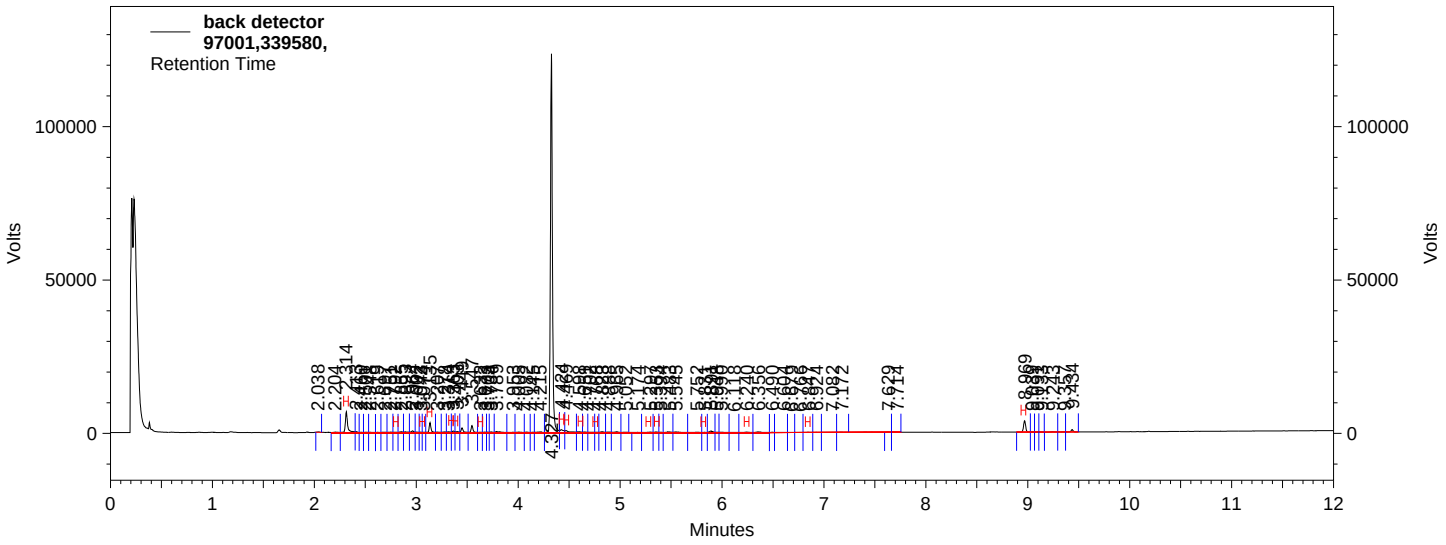
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	45388186	66.7401
ALPHABHC	2.892	1362777	0.0005
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	3.493	10561216	0.0038
ALDRIN	3.730	1628360	0.0007
HEPTAEPOX	4.263	967458	0.0004
GAMMACHLOR	4.348	553650858	0.2007
ALPHACHLOR	4.500	7381367	0.0031
44DDE	4.582	4250543	0.0027
ENDOI	4.608	3503557	0.0012
DIELDRIN	4.866	2503363	0.0011
ENDRIN			0.0000 BDL
44DDD	5.206	960904	0.0007
ENDOII	5.333	590730	0.0003
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL	6.248	471708	0.0005
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.566	21485517	40.1647

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\022.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,339580,
Acquired: Aug 23,2013 16:19:24
Printed: Aug 23,2013 17:17:13

Data Summary: {Data Description}



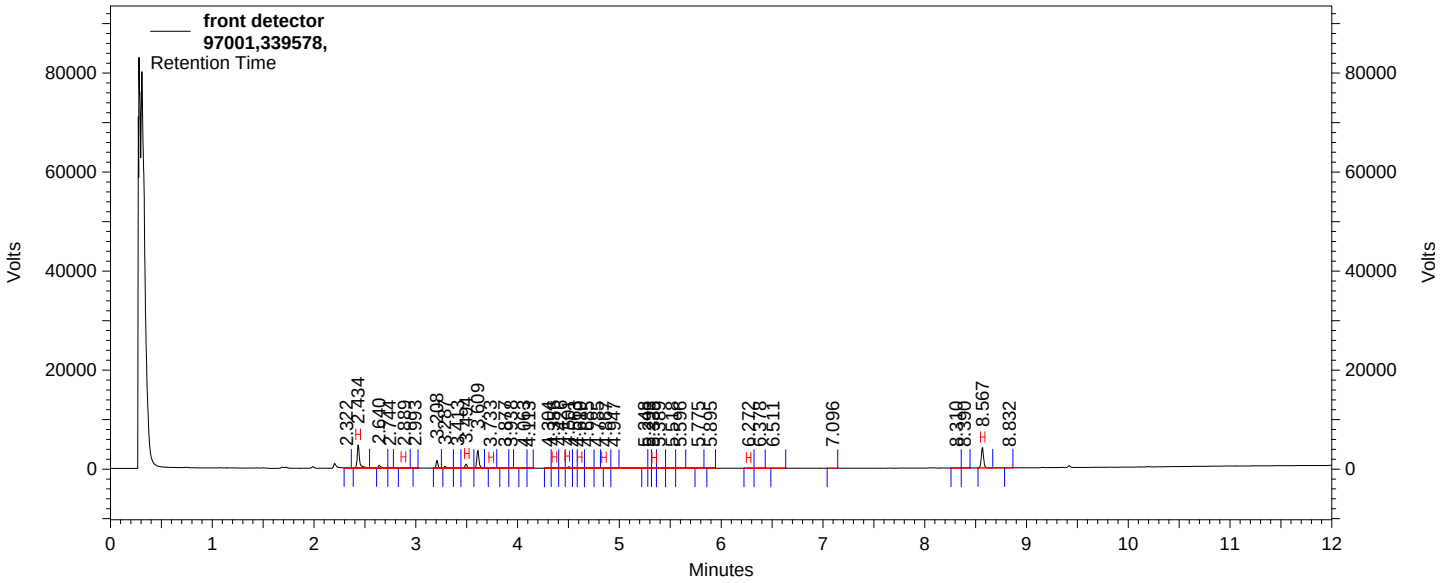
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.314	81725728	59.0964
ALPHABHC	2.792	1721604	0.0004
LINDANE	3.043	1266413	0.0003
BETABHC	3.135	31330657	0.0111
DELTABHC	3.363	5228865	0.0010
HEPTACHLOR	3.403	5123346	0.0008
ALDRIN	3.632	1356941	0.0003
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR	4.424	17121982	0.0031
ENDOI	4.469	14858298	0.0028
44DDE	4.598	4709561	0.0010
DIELDRIN	4.768	1560381	0.0004
ENDRIN			0.0000 BDL
44DDD	5.297	3742617	0.0010
ENDOII	5.353	2891537	0.0006
44DDT			0.0000 BDL
ENDRINALDEH	5.831	1243068	0.0002
ENDOSULFATE	6.240	3850204	0.0008
METHOXYCL	6.847	1365852	0.0005
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.969	41900395	39.8845

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\023.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,339578,
Acquired: Aug 23,2013 16:36:11
Printed: Aug 23,2013 17:17:17

Data Summary: {Data Description}



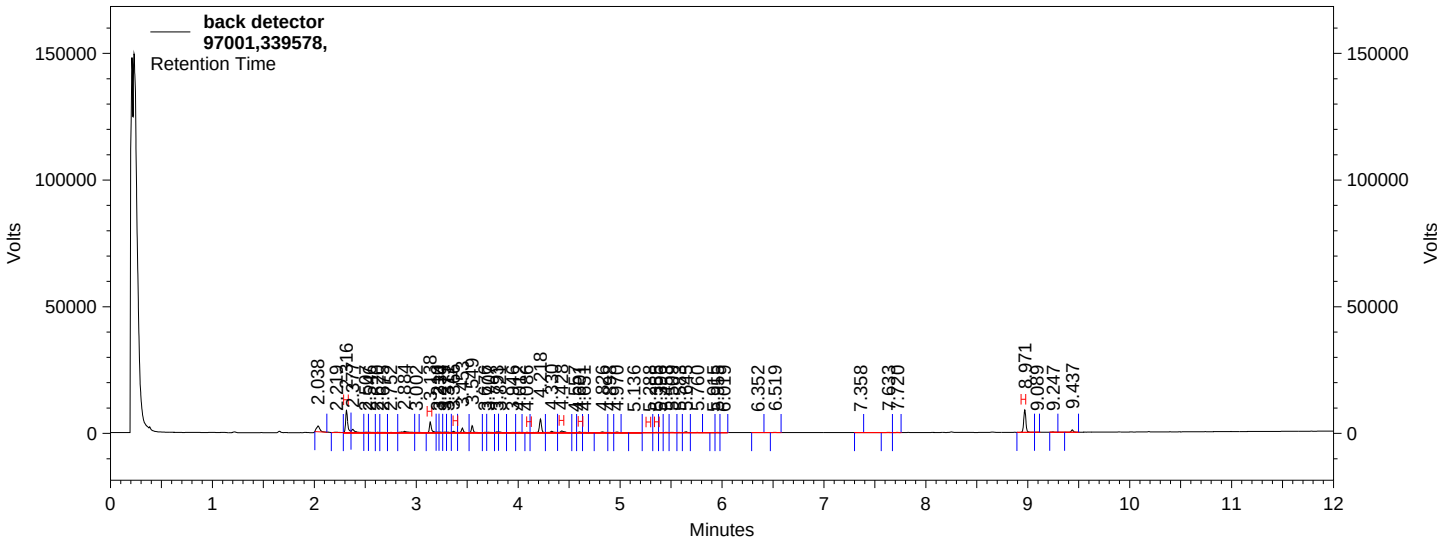
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	57712173	84.8670
ALPHABHC	2.889	2744340	0.0009
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	3.494	10415278	0.0037
ALDRIN	3.733	1221369	0.0005
HEPTAEPOX			0.0000 BDL
GAMMACHLOR	4.356	2301247	0.0010
ALPHACHLOR	4.501	3911372	0.0017
44DDE			0.0000 BDL
ENDOI	4.610	1646724	0.0005
DIELDRIN	4.867	1128637	0.0006
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII	5.335	372134	0.0002
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL	6.272	521785	0.0005
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.567	50630684	99.8624

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\023.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,339578,
Acquired: Aug 23,2013 16:36:11
Printed: Aug 23,2013 17:17:17

Data Summary: {Data Description}



back detector Results

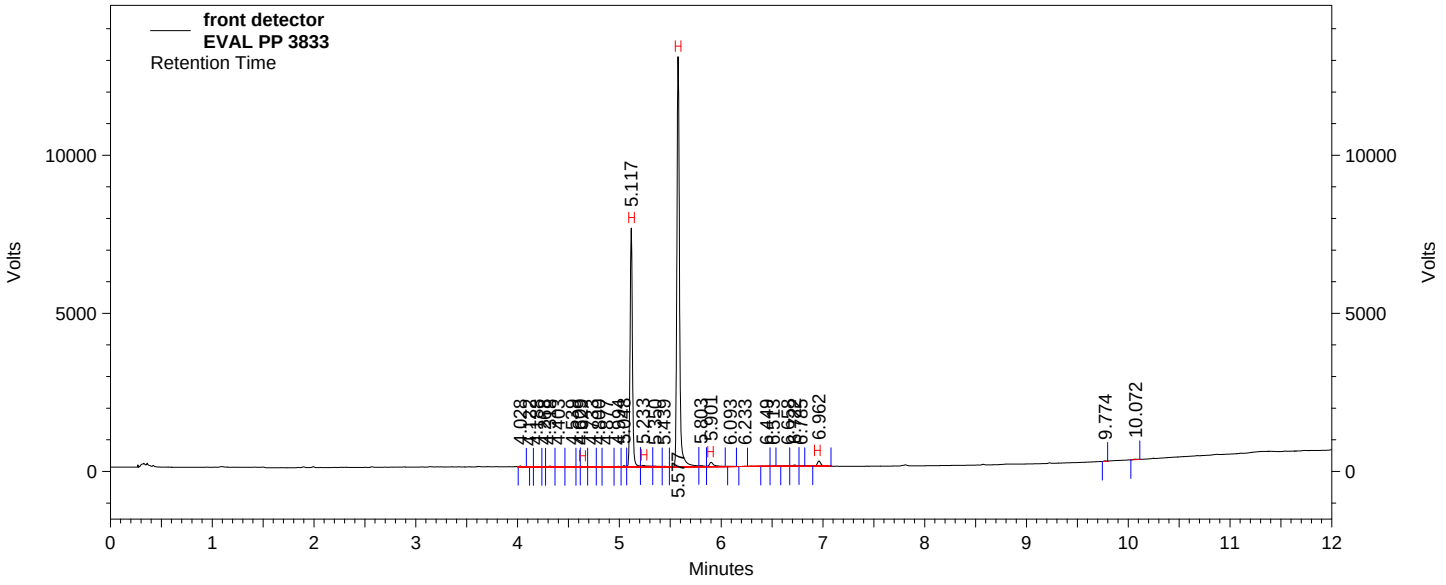
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.316	95958988	69.2642
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC	3.138	44281439	0.0157
DELTABHC			0.0000 BDL
HEPTACHLOR	3.366	6271785	0.0009
ALDRIN			0.0000 BDL
HEPTAEPOX	4.086	1602026	0.0003
GAMMACHLOR			0.0000 BDL
ALPHACHLOR	4.428	12398921	0.0023
ENDOI			0.0000 BDL
44DDE	4.601	3318492	0.0007
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD	5.288	694746	0.0003
ENDOII	5.355	1047886	0.0002
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.971	100941106	99.8551

PESTICIDE
INITIAL CALIBRATION
DOCUMENTS

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\eval.met
User: JJY
Sample ID: EVAL PP 3833
Acquired: Aug 22,2013 15:25:19
Printed: Aug 29,2013 08:57:43

Data Summary: Breakdown A: Endrin 6.6%, DDT 0.9%
B: Endrin 5.9%, DDT 0.5%



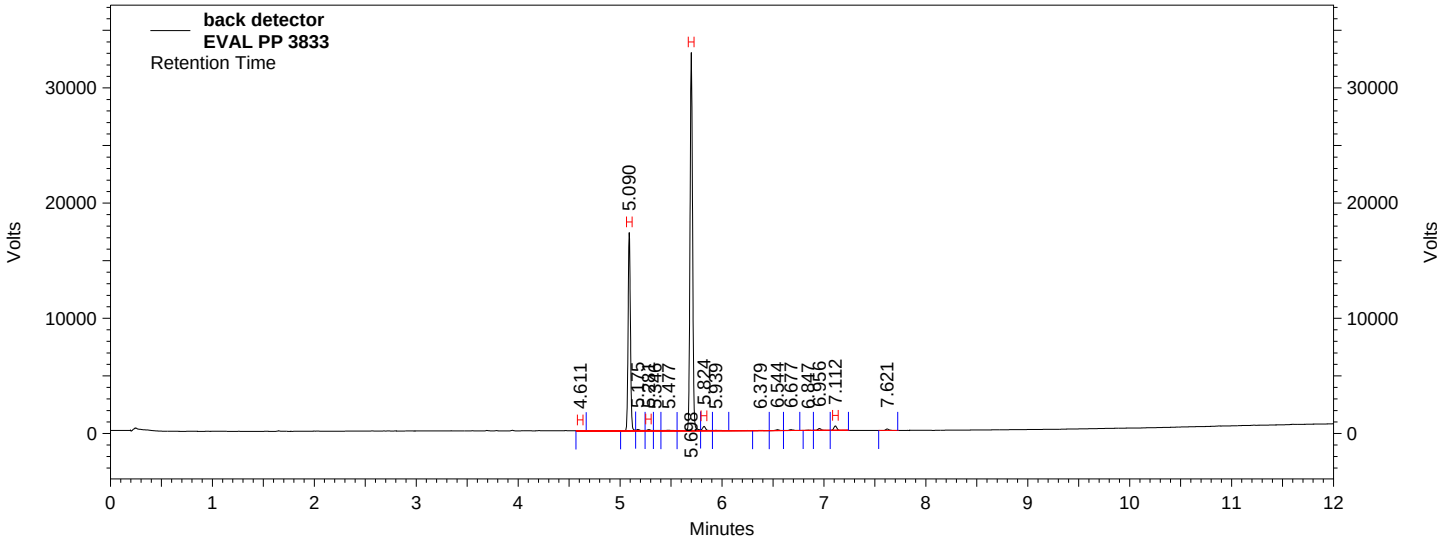
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE	4.629	306801	0.0004
ENDRIN	5.117	93759094	0.0304
44DDD	5.233	1320691	0.0008
44DDT	5.577	180712273	0.0568
ENDRINALDEH	5.901	3304375	0.0013
ENDRINKETONE	6.962	3302345	0.0011

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\eval.met
User: JJY
Sample ID: EVAL PP 3833
Acquired: Aug 22,2013 15:25:19
Printed: Aug 29,2013 08:57:43

Data Summary: **Breakdown A: Endrin 6.6%, DDT 0.9%**
B: Endrin 5.9%, DDT 0.5%



back detector Results

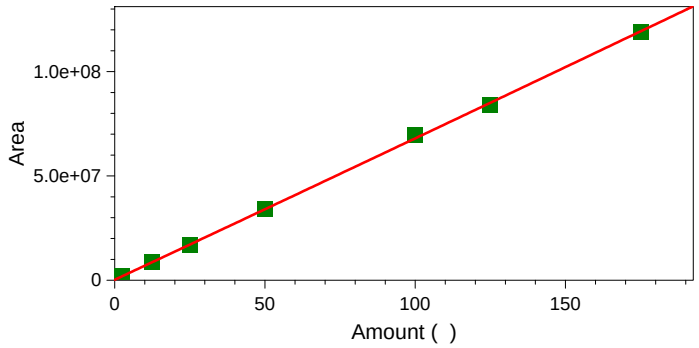
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE	4.611	475010	0.0002
ENDRIN	5.090	208183085	0.0515
44DDD	5.281	1889440	0.0006
44DDT	5.698	437411194	0.1009
ENDRINALDEH	5.824	6609757	0.0014
ENDRINKETONE	7.112	6482024	0.0012

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:00:54
User: JJY
Instrument: Semi 1

SURRTCMXPEST (front detector)
Average RF: 694167. RF StDev: 36487.8 RF %RSD: 5.25634
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 34.2587x^2 + 674676.x + 207640.
Goodness of fit (r^2): 0.999754

Peak: SURRTCMXPEST -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	1938911	8486200	16926514	33932991	69419739
RF	775564.4	678896	677060.56	678659.82	694197.39
Last Area					
Residual	-0.0657411	0.237222	0.250524	0.138799	-2.05673
Rep StDev					
Rep %RSD					
Rep 1 Area	1938911	8486200	16926514	33932991	69419739
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	125	175	0	0
Area	84160618	119263983		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:00:54
User: JJY
Instrument: Semi 1

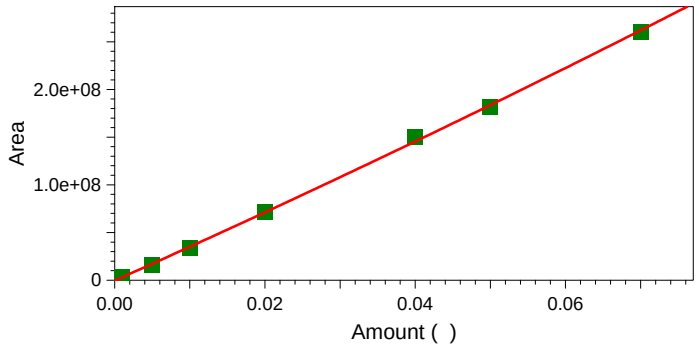
RF	673284.944	681508.474285714		
Last Area Residual	1.34204	0.0891433	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	84160618	119263983		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:00:58
User: JJY
Instrument: Semi 1

ALPHABHC (front detector)
Average RF: 3.52945e+009 RF StDev: 1.95194e+008 RF %RSD: 5.53043
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.40608e+009x^2 + 3.51024e+009x - 389288.
Goodness of fit (r^2): 0.999550

Peak: ALPHABHC -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	3360866	16162430	34215646	71578041	149855238
RF	3360866000	3232486000	3421564600	3578902050	3746380950
Last Area Residual	-6.72407e-005	0.000306117	0.000234268	-0.00010969	-0.00115802
Rep StDev					
Rep %RSD					
Rep 1 Area	3360866	16162430	34215646	71578041	149855238
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	181990916	260826797		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:00:58
User: JJY
Instrument: Semi 1

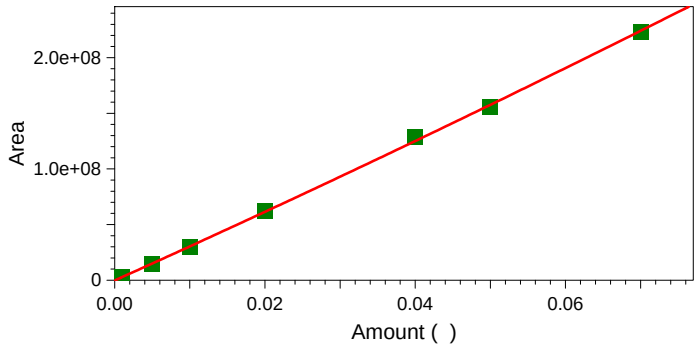
RF	3639818320	3726097100		
Last Area Residual	0.000427907	0.000298733	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	181990916	260826797		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:00
User: JJY
Instrument: Semi 1

LINDANE (front detector)
Average RF: 3.06499e+009 RF StDev: 1.35716e+008 RF %RSD: 4.42796
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.42523e+009x^2 + 3.03504e+009x - 201962.
Goodness of fit (r^2): 0.999464

Peak: LINDANE -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	3032334	14175850	29586630	62035984	128993786
RF	3032334000	2835170000	2958663000	3101799200	3224844650
Last Area					
Residual	-6.4747e-005	0.000280521	0.000260891	-0.000181041	-0.00121098
Rep StDev					
Rep %RSD					
Rep 1 Area	3032334	14175850	29586630	62035984	128993786
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	155429379	223545108		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:00
User: JJY
Instrument: Semi 1

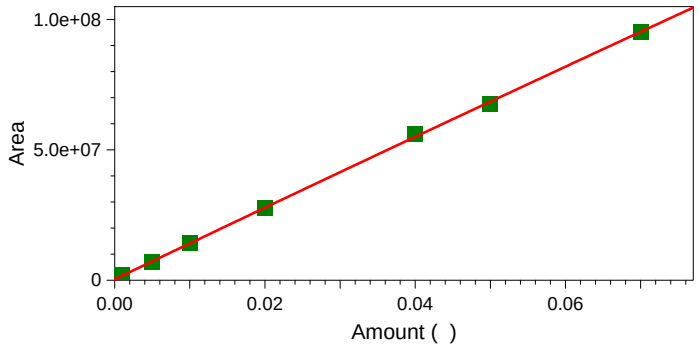
RF	3108587580	3193501542.85714		
Last Area Residual	0.000666557	0.000174616	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	155429379	223545108		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:01
User: JJY
Instrument: Semi 1

BETABHC (front detector)
Average RF: 1.44160e+009 RF StDev: 1.38343e+008 RF %RSD: 9.59653
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -3.41030e+008x^2 + 1.37946e+009x + 353542.
Goodness of fit (r^2): 0.999755

Peak: BETABHC -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1748708	7165591	14138386	27638488	55970844
RF	1748708000	1433118200	1413838600	1381924400	1399271100
Last Area					
Residual	-1.1638e-005	5.57608e-005	-1.77291e-005	0.000122901	-0.00072822
Rep StDev					
Rep %RSD					
Rep 1 Area	1748708	7165591	14138386	27638488	55970844
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	67580638	95389255		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:01
User: JJY
Instrument: Semi 1

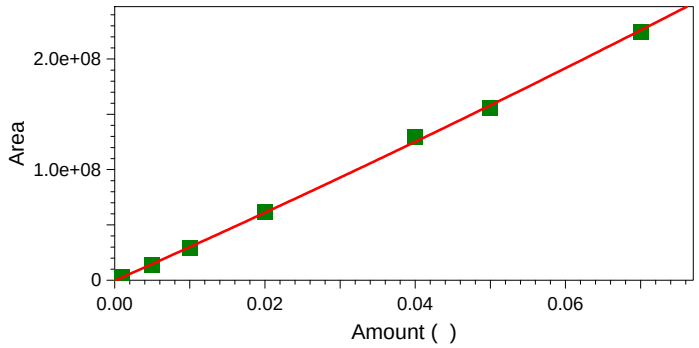
RF	1351612760	1362703642.85714		
Last Area Residual	0.000663941	-0.000108492	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	67580638	95389255		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:02
User: JJY
Instrument: Semi 1

DELTABHC (front detector)
Average RF: 3.01309e+009 RF StDev: 2.07137e+008 RF %RSD: 6.87457
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.16197e+009x^2 + 3.01376e+009x - 455842.
Goodness of fit (r^2): 0.999272

Peak: DELTABHC -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2808151	13536085	29113455	61669873	129900796
RF	2808151000	2707217000	2911345500	3083493650	3247519900
Last Area					
Residual	-8.18038e-005	0.00037971	0.000287528	-0.000186512	-0.00145118
Rep StDev					
Rep %RSD					
Rep 1 Area	2808151	13536085	29113455	61669873	129900796
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	156039256	224918435		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:02
User: JJY
Instrument: Semi 1

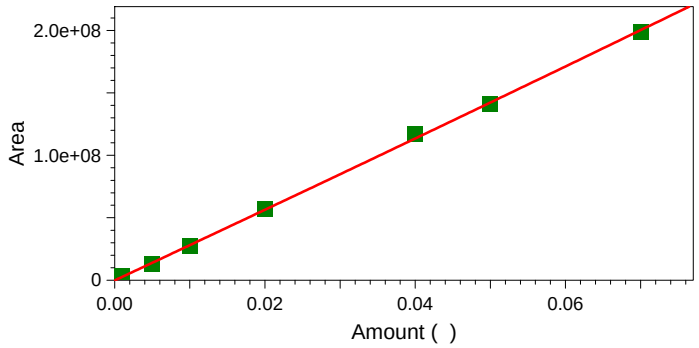
RF	3120785120	3213120500		
Last Area Residual	0.000630309	0.000313224	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	156039256	224918435		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:03
User: JJY
Instrument: Semi 1

HEPTACHLOR (front detector)
Average RF: 2.81360e+009 RF StDev: 9.73810e+007 RF %RSD: 3.46109
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.44482e+008x^2 + 2.80996e+009x - 100210.
Goodness of fit (r^2): 0.999534

Peak: HEPTACHLOR -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2900299	13250941	27179176	56671549	116923587
RF	2900299000	2650188200	2717917600	2833577450	2923089675
Last Area Residual	-6.75082e-005	0.000254607	0.000316754	-9.67209e-005	-0.00119635
Rep StDev					
Rep %RSD					
Rep 1 Area	2900299	13250941	27179176	56671549	116923587
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	141233586	199180466		

Calibration Report

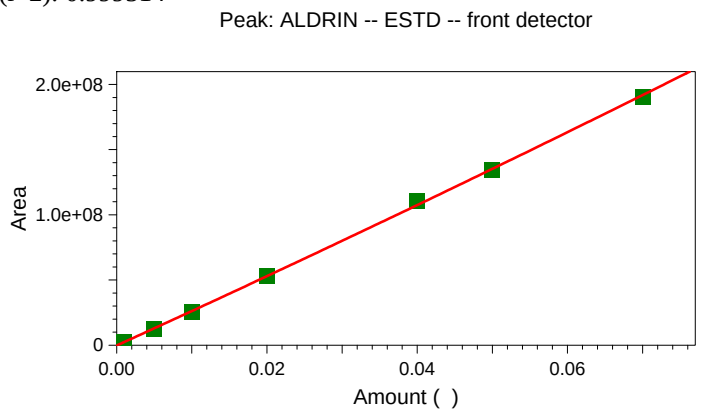
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:03
User: JJY
Instrument: Semi 1

RF	2824671720	2845435228.57143		
Last Area Residual	0.000355617	0.000365427	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	141233586	199180466		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:05
User: JJY
Instrument: Semi 1

ALDRIN (front detector)
Average RF: 2.63276e+009 RF StDev: 1.18258e+008 RF %RSD: 4.49180
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.71364e+009x^2 + 2.62389e+009x - 208068.
Goodness of fit (r^2): 0.999514



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2615780	12109287	25450726	53298666	110829516
RF	2615780000	2421857400	2545072600	2664933300	2770737900
Last Area					
Residual	-7.54525e-005	0.000319989	0.000282745	-0.000127581	-0.00120891
Rep StDev					
Rep %RSD					
Rep 1 Area	2615780	12109287	25450726	53298666	110829516
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	134270168	190787947		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:05
User: JJY
Instrument: Semi 1

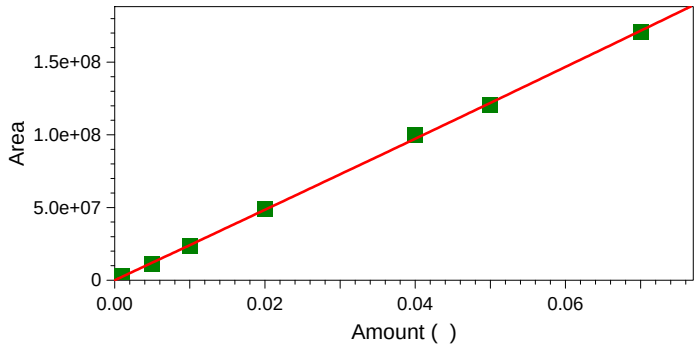
RF	2685403360	2725542100		
Last Area Residual	0.000357909	0.000374734	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	134270168	190787947		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:06
User: JJY
Instrument: Semi 1

HEPTAEPOX (front detector)
Average RF: 2.43446e+009 RF StDev: 9.11133e+007 RF %RSD: 3.74265
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 6.19042e+008x^2 + 2.40787e+009x + 32887.7
Goodness of fit (r^2): 0.999534

Peak: HEPTAEPOX -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2582903	11528834	23603067	48629667	100217099
RF	2582903000	2305766800	2360306700	2431483350	2505427475
Last Area Residual	-5.87461e-005	0.000231521	0.000235697	-7.88397e-005	-0.00117122
Rep StDev					
Rep %RSD					
Rep 1 Area	2582903	11528834	23603067	48629667	100217099
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	120534365	171124213		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:06
User: JJY
Instrument: Semi 1

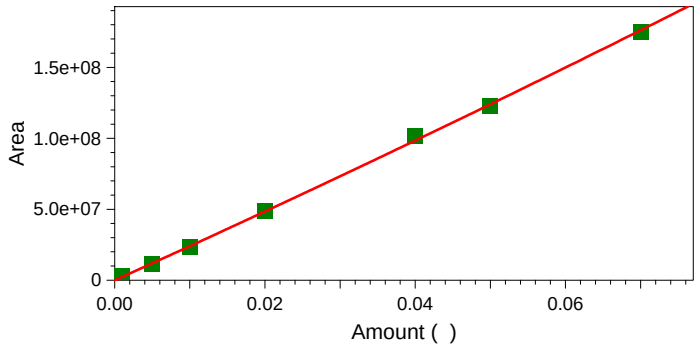
RF	2410687300	2444631614.28571		
Last Area Residual	0.000582954	0.000197553	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	120534365	171124213		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:07
User: JJY
Instrument: Semi 1

GAMMACHLOR (front detector)
Average RF: 2.43072e+009 RF StDev: 1.07223e+008 RF %RSD: 4.41118
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.84340e+009x^2 + 2.38838e+009x - 62326.1
Goodness of fit (r^2): 0.999347

Peak: GAMMACHLOR -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2503286	11265219	23204899	48668333	101989318
RF	2503286000	2253043800	2320489900	2433416650	2549732950
Last Area Residual	-7.33154e-005	0.000274468	0.000330337	-9.16354e-005	-0.00140514
Rep StDev					
Rep %RSD					
Rep 1 Area	2503286	11265219	23204899	48668333	101989318
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	122534854	175306441		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:07
User: JJY
Instrument: Semi 1

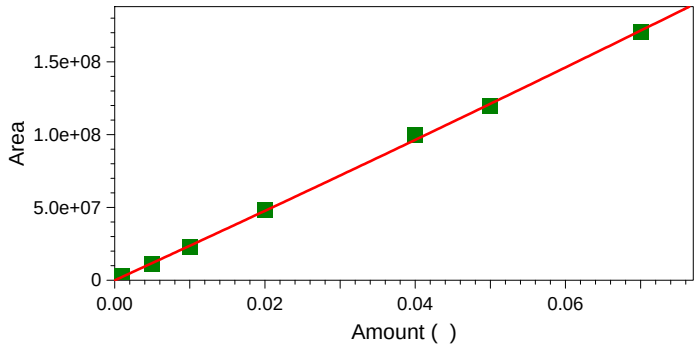
RF	2450697080	2504377728.57143		
Last Area Residual	0.000556242	0.00032153	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	122534854	175306441		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:08
User: JJY
Instrument: Semi 1

ALPHACHLOR (front detector)
Average RF: 2.38839e+009 RF StDev: 8.92299e+007 RF %RSD: 3.73598
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.27197e+009x^2 + 2.36017e+009x - 49251.2
Goodness of fit (r^2): 0.999431

Peak: ALPHACHLOR -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2461067	11217610	22958112	47946877	99563463
RF	2461067000	2243522000	2295811200	2397343850	2489086575
Last Area Residual	-6.30081e-005	0.000238471	0.000302506	-0.00011775	-0.00128704
Rep StDev					
Rep %RSD					
Rep 1 Area	2461067	11217610	22958112	47946877	99563463
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	119577389	170826223		

Calibration Report

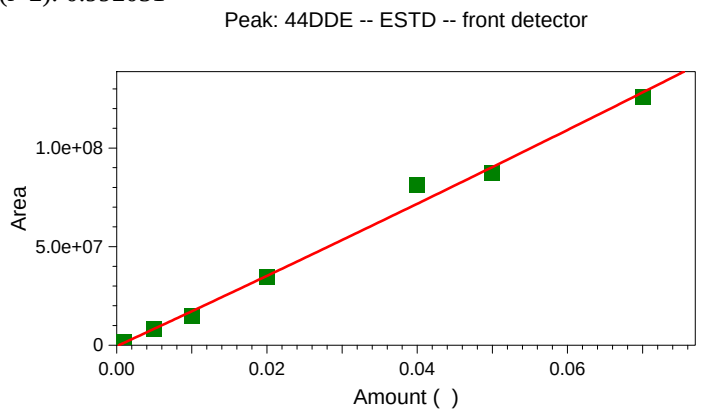
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:08
User: JJY
Instrument: Semi 1

RF	2391547780	2440374614.28571		
Last Area Residual	0.000628111	0.000224259	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	119577389	170826223		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:10
User: JJY
Instrument: Semi 1

44DDE (front detector)
Average RF: 1.69678e+009 RF StDev: 2.01006e+008 RF %RSD: 11.8463
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.08515e+009x^2 + 1.76220e+009x - 499961.
Goodness of fit (r^2): 0.992051



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1419883	8289490	15012150	34351102	81252335
RF	1419883000	1657898000	1501215000	1717555100	2031308375
Last Area Residual	-8.87262e-005	2.74669e-005	0.00124453	0.00045819	-0.00513746
Rep StDev					
Rep %RSD					
Rep 1 Area	1419883	8289490	15012150	34351102	81252335
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	87380964	126137944		

Calibration Report

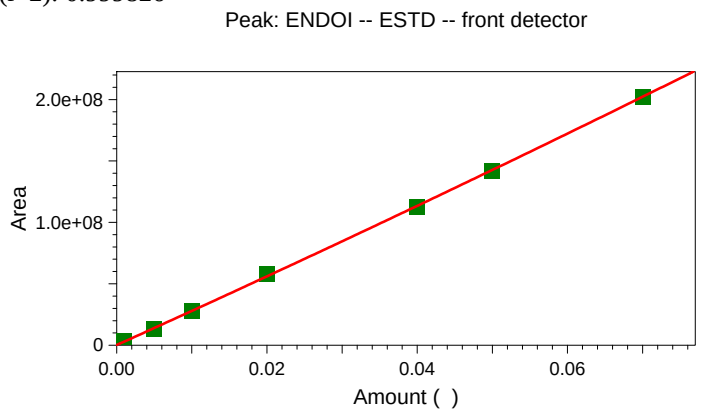
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:10
User: JJY
Instrument: Semi 1

RF	1747619280	1801970628.57143		
Last Area Residual	0.00157418	0.00106307	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	87380964	126137944		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:11
User: JJY
Instrument: Semi 1

ENDOI (front detector)
Average RF: 2.85024e+009 RF StDev: 1.69686e+008 RF %RSD: 5.95339
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.83838e+009x^2 + 2.75880e+009x + 163925.
Goodness of fit (r^2): 0.999826



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	3128620	12759492	28140986	57958684	112893363
RF	3128620000	2551898400	2814098600	2897934200	2822334075
Last Area Residual	-7.38638e-005	0.00044821	-7.34074e-005	-0.000664681	0.000194102
Rep StDev					
Rep %RSD					
Rep 1 Area	3128620	12759492	28140986	57958684	112893363
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	142176532	202529392		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:11
User: JJY
Instrument: Semi 1

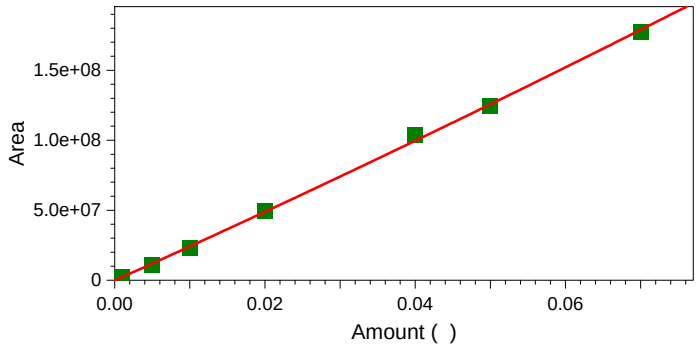
RF	2843530640	2893277028.57143		
Last Area Residual	0.000177867	-8.00329e-005	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	142176532	202529392		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:12
User: JJY
Instrument: Semi 1

DIELDRIN (front detector)
Average RF: 2.43194e+009 RF StDev: 1.29216e+008 RF %RSD: 5.31328
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.06477e+009x^2 + 2.41384e+009x - 214098.
Goodness of fit (r^2): 0.999206

Peak: DIELDRIN -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2409986	11127791	23040616	49374436	103609141
RF	2409986000	2225558200	2304061600	2468721800	2590228525
Last Area					
Residual	-8.60906e-005	0.000320043	0.000444199	-0.000194578	-0.00153591
Rep StDev					
Rep %RSD					
Rep 1 Area	2409986	11127791	23040616	49374436	103609141
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	124322497	177700821		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:12
User: JJY
Instrument: Semi 1

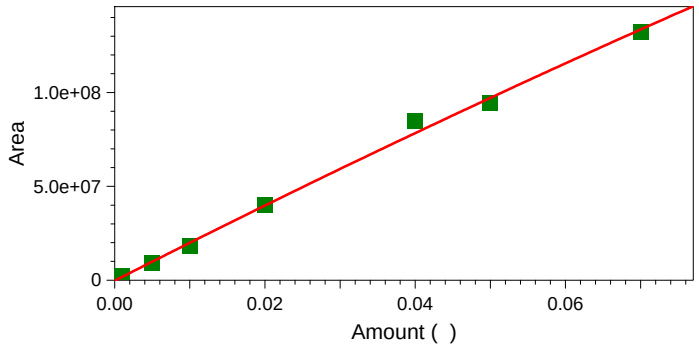
RF	2486449940	2538583157.14286		
Last Area Residual	0.000502934	0.000433473	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	124322497	177700821		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:13
User: JJY
Instrument: Semi 1

ENDRIN (front detector)
Average RF: 1.94146e+009 RF StDev: 1.04706e+008 RF %RSD: 5.39315
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.80767e+009x^2 + 2.03840e+009x - 257866.
Goodness of fit (r^2): 0.996246

Peak: ENDRIN -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2004694	9243259	18367128	39950822	84982049
RF	2004694000	1848651800	1836712800	1997541100	2124551225
Last Area					
Residual	-0.000111064	0.000319497	0.000787663	-8.33204e-005	-0.00349478
Rep StDev					
Rep %RSD					
Rep 1 Area	2004694	9243259	18367128	39950822	84982049
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	94243584	132525801		

Calibration Report

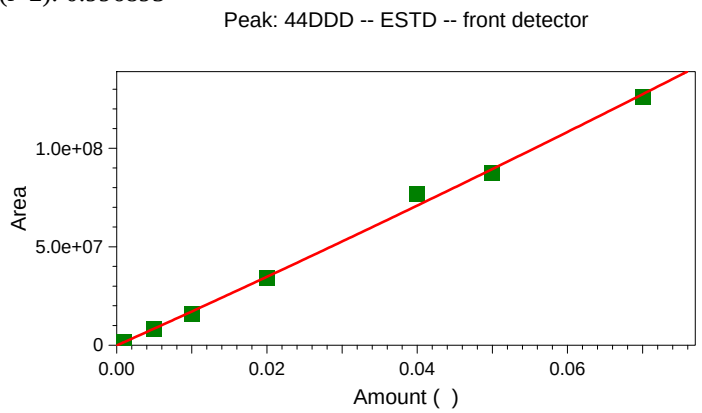
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:13
User: JJY
Instrument: Semi 1

RF	1884871680	1893225728.57143		
Last Area Residual	0.00155837	0.000585872	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	94243584	132525801		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:15
User: JJY
Instrument: Semi 1

44DDD (front detector)
Average RF: 1.72966e+009 RF StDev: 1.09158e+008 RF %RSD: 6.31093
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.54338e+009x^2 + 1.71507e+009x - 160498.
Goodness of fit (r^2): 0.996895



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1706075	8122366	15940319	34315632	76716265
RF	1706075000	1624473200	1594031900	1715781600	1917906625
Last Area Residual	-8.72727e-005	0.000191347	0.000690148	0.000249164	-0.00314883
Rep StDev					
Rep %RSD					
Rep 1 Area	1706075	8122366	15940319	34315632	76716265
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	87236757	126323997		

Calibration Report

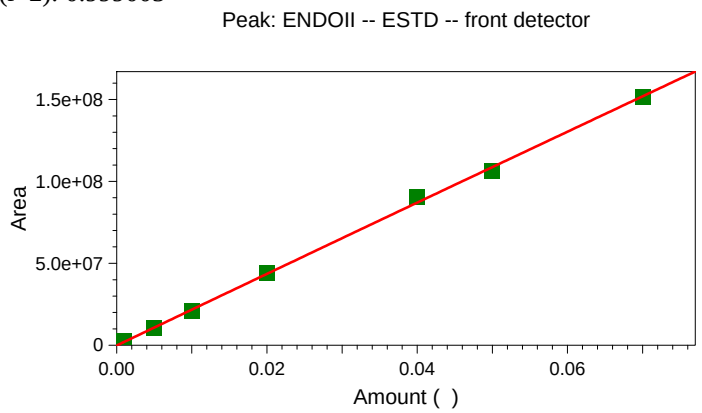
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:15
User: JJY
Instrument: Semi 1

RF	1744735140	1804628528.57143		
Last Area Residual	0.00118587	0.000586962	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	87236757	126323997		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:16
User: JJY
Instrument: Semi 1

ENDOII (front detector)
Average RF: 2.15762e+009 RF StDev: 6.47901e+007 RF %RSD: 3.00286
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.25467e+008x^2 + 2.18858e+009x - 130661.
Goodness of fit (r^2): 0.999005



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2164907	10536814	20666469	44137468	90460854
RF	2164907000	2107362800	2066646900	2206873400	2261521350
Last Area Residual	-4.89997e-005	0.000123388	0.000488095	-0.000269233	-0.00157093
Rep StDev					
Rep %RSD					
Rep 1 Area	2164907	10536814	20666469	44137468	90460854
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	106324677	151865486		

Calibration Report

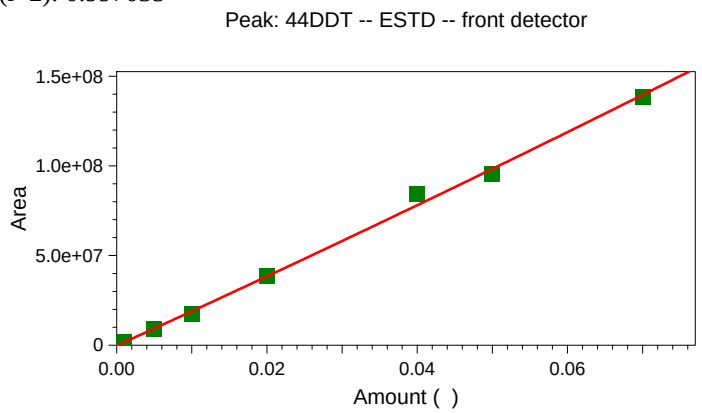
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:16
User: JJY
Instrument: Semi 1

RF	2126493540	2169506942.85714		
Last Area Residual	0.00111241	4.60788e-005	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	106324677	151865486		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:18
User: JJY
Instrument: Semi 1

44DDT (front detector)
Average RF: 1.89801e+009 RF StDev: 1.22887e+008 RF %RSD: 6.47451
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.33058e+009x^2 + 1.90462e+009x - 237361.
Goodness of fit (r^2): 0.997035



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1842817	8874860	17477249	38550930	84102628
RF	1842817000	1774972000	1747724900	1927546500	2102565700
Last Area Residual	-9.13421e-005	0.000231616	0.000758805	-8.35712e-005	-0.0029906
Rep StDev					
Rep %RSD					
Rep 1 Area	1842817	8874860	17477249	38550930	84102628
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	95437545	138720008		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:18
User: JJY
Instrument: Semi 1

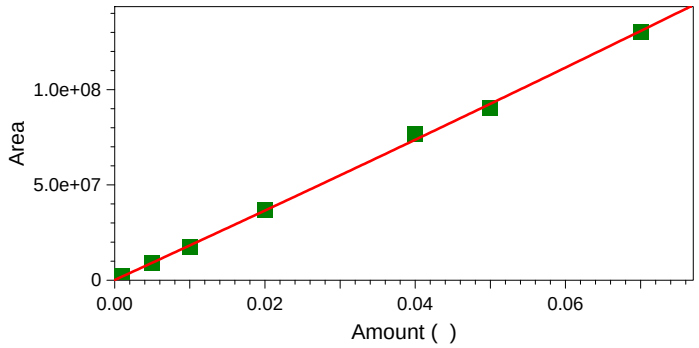
RF	1908750900	1981714400		
Last Area Residual	0.00141597	0.00042384	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	95437545	138720008		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:19
User: JJY
Instrument: Semi 1

ENDRINALDEH (front detector)
Average RF: 1.85880e+009 RF StDev: 9.35468e+007 RF %RSD: 5.03263
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 9.02041e+008x^2 + 1.80285e+009x + 140394.
Goodness of fit (r^2): 0.998955

Peak: ENDRINALDEH -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2031707	9019615	17471775	36582270	76910557
RF	2031707000	1803923000	1747177500	1829113500	1922763925
Last Area Residual	-4.85206e-005	8.69643e-005	0.000432456	-1.3125e-005	-0.00171221
Rep StDev					
Rep %RSD					
Rep 1 Area	2031707	9019615	17471775	36582270	76910557
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	90629883	130504557		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:19
User: JJY
Instrument: Semi 1

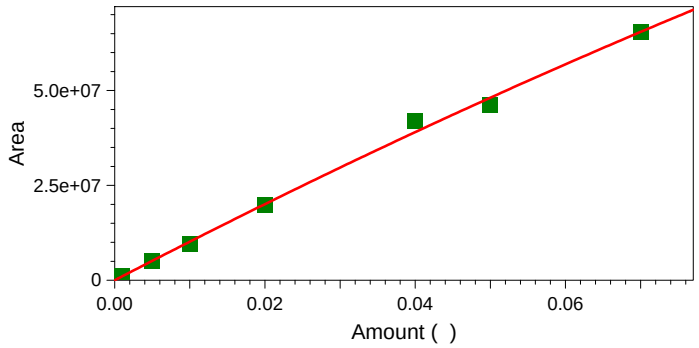
RF	1812597660	1864350814.28571		
Last Area Residual	0.00100834	0.000132229	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	90629883	130504557		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:20
User: JJY
Instrument: Semi 1

METHOXYCL (front detector)
Average RF: 9.92433e+008 RF StDev: 5.44172e+007 RF %RSD: 5.48321
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.35777e+009x^2 + 1.03014e+009x - 6265.54
Goodness of fit (r^2): 0.996403

Peak: METHOXYCL -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1058793	5132235	9615133	19878563	41927430
RF	1058793000	1026447000	961513300	993928150	1048185750
Last Area Residual	-3.53145e-005	-2.14151e-005	0.000542161	0.00017905	-0.00316252
Rep StDev					
Rep %RSD					
Rep 1 Area	1058793	5132235	9615133	19878563	41927430
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	46077930	65562214		

Calibration Report

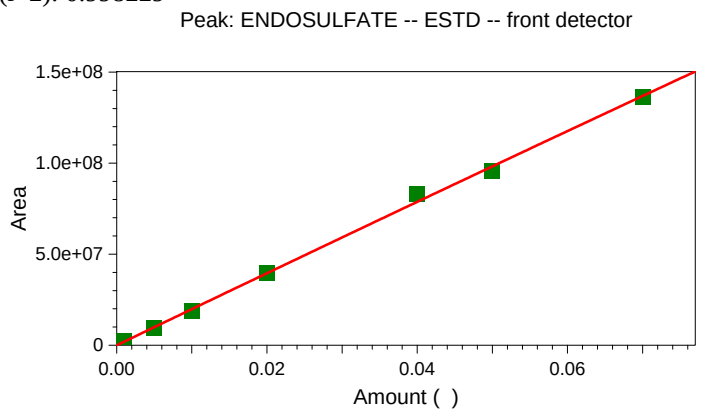
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:20
User: JJY
Instrument: Semi 1

RF	921558600	936603057.142857		
Last Area Residual	0.00225994	-0.000133483	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	46077930	65562214		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:21
User: JJY
Instrument: Semi 1

ENDOSULFATE (front detector)
Average RF: 1.97301e+009 RF StDev: 8.10208e+007 RF %RSD: 4.10645
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.40068e+008x^2 + 1.98690e+009x - 22259.5
Goodness of fit (r^2): 0.998229



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2083830	9639972	18746257	39661535	83129737
RF	2083830000	1927994400	1874625700	1983076750	2078243425
Last Area Residual	-6.02385e-005	0.000131774	0.000534007	-6.18962e-005	-0.00224547
Rep StDev					
Rep %RSD					
Rep 1 Area	2083830	9639972	18746257	39661535	83129737
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	95580191	136620595		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:21
User: JJY
Instrument: Semi 1

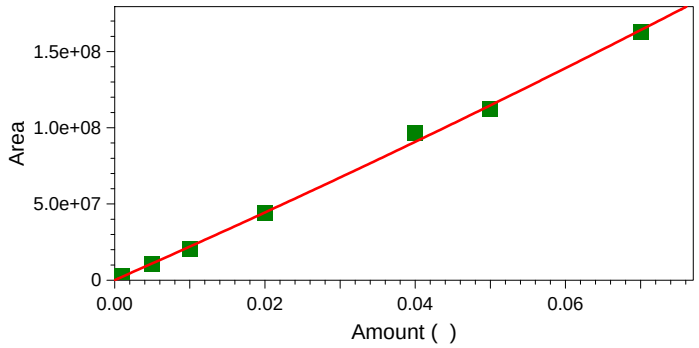
RF	1911603820	1951722785.71429		
Last Area Residual	0.00135952	0.000147284	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	95580191	136620595		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:23
User: JJY
Instrument: Semi 1

ENDRINKETONE (front detector)
Average RF: 2.26739e+009 RF StDev: 1.38000e+008 RF %RSD: 6.08628
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.51750e+009x^2 + 2.16573e+009x + 129413.
Goodness of fit (r^2): 0.998210

Peak: ENDRINKETONE -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2454240	10751963	20712516	44271294	96305102
RF	2454240000	2150392600	2071251600	2213564700	2407627550
Last Area					
Residual	-7.21274e-005	0.000122804	0.000598717	7.92621e-005	-0.00232563
Rep StDev					
Rep %RSD					
Rep 1 Area	2454240	10751963	20712516	44271294	96305102
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	112177620	163177572		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:23
User: JJY
Instrument: Semi 1

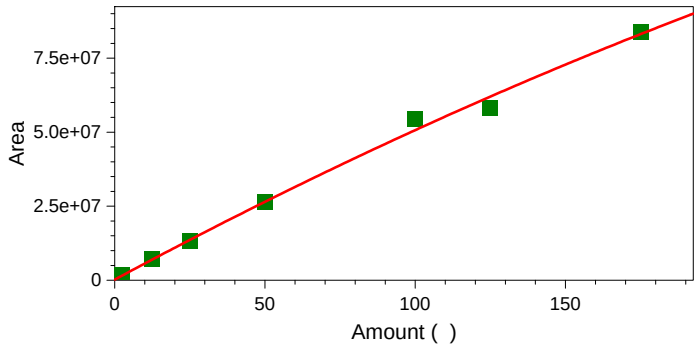
RF	2243552400	2331108171.42857		
Last Area Residual	0.00104844	0.000352905	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	112177620	163177572		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:24
User: JJY
Instrument: Semi 1

SURRDCBPEST (front detector)
Average RF: 535593. RF StDev: 57167.7 RF %RSD: 10.6737
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -413.675x^2 + 546138.x + 217386.
Goodness of fit (r^2): 0.994962

Peak: SURRDCBPEST -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	1595597	7082098	13099707	26455139	54465514
RF	638238.8	566567.84	523988.28	529102.78	544655.14
Last Area					
Residual	-0.0283988	-0.191558	0.974765	0.0692759	-8.19773
Rep StDev					
Rep %RSD					
Rep 1 Area	1595597	7082098	13099707	26455139	54465514
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	125	175	0	0
Area	58308891	84022106		
RF	466471.128	480126.32		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:24
User: JJY
Instrument: Semi 1

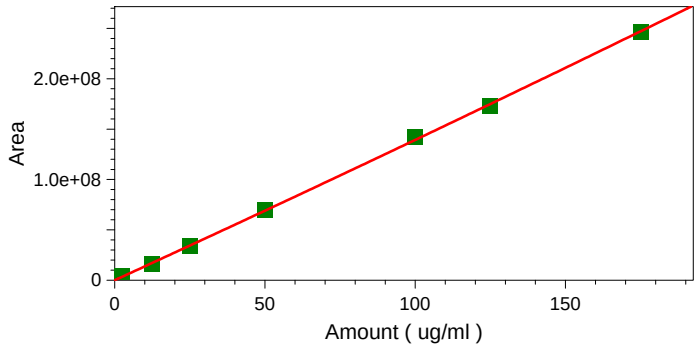
Last Area Residual	8.32009	-2.24593	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	58308891	84022106		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:29
User: JJY
Instrument: Semi 1

SURRTCMXPEST (back detector)
Average RF: 1.39009e+006 RF StDev: 44105.1 RF %RSD: 3.17283
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 257.208x^2 + 1.36683e+006x + 52885.1
Goodness of fit (r^2): 0.999662

Peak: SURRTCMXPEST -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	3624435	16461778	34003183	69250764	142636422
RF	1449774	1316942.24	1360127.32	1385015.28	1426364.22
Last Area					
Residual	-0.11174	0.521897	0.276254	-0.15333	-2.34608
Rep StDev					
Rep %RSD					
Rep 1 Area	3624435	16461778	34003183	69250764	142636422
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	125	175	0	0
Area	172658846	246943487		
RF	1381270.768	1411105.64		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:29
User: JJY
Instrument: Semi 1

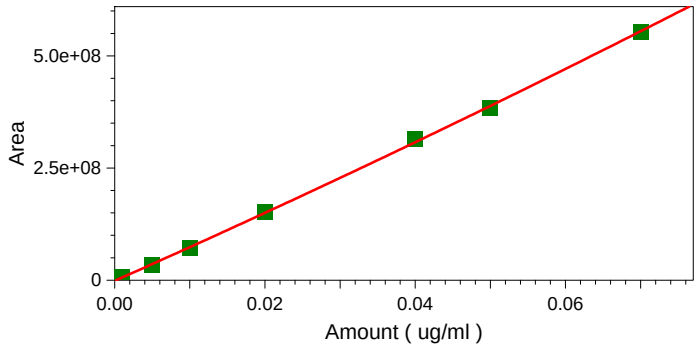
Last Area Residual	1.58399	0.124281	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	172658846	246943487		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:31
User: JJY
Instrument: Semi 1

ALPHABHC (back detector)
Average RF: 7.37333e+009 RF StDev: 5.43683e+008 RF %RSD: 7.37364
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.51220e+009x^2 + 7.41998e+009x - 1.28145e+006
Goodness of fit (r^2): 0.999639

Peak: ALPHABHC -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	6570439	33624769	72398789	152583747	314576194
RF	6570439000	6724953800	7239878900	7629187350	7864404850
Last Area					
Residual	-5.70775e-005	0.000317839	0.00016789	-0.000318635	-0.000876862
Rep StDev					
Rep %RSD					
Rep 1 Area	6570439	33624769	72398789	152583747	314576194
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	383176986	554465485		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:31
User: JJY
Instrument: Semi 1

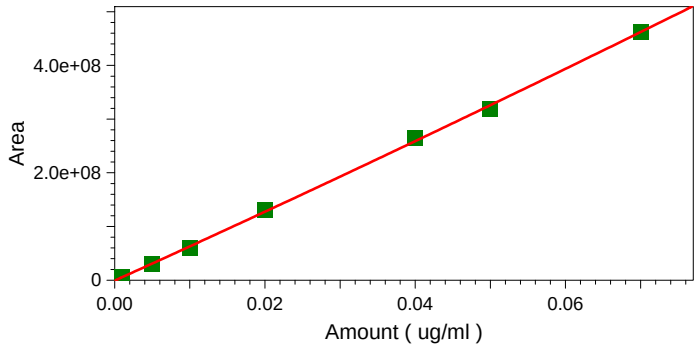
RF	7663539720	7920935500		
Last Area Residual	0.000651569	5.44456e-005	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	383176986	554465485		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:32
User: JJY
Instrument: Semi 1

LINDANE (back detector)
Average RF: 6.30363e+009 RF StDev: 3.22149e+008 RF %RSD: 5.11054
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.98330e+009x^2 + 6.33311e+009x - 718835.
Goodness of fit (r^2): 0.999307

Peak: LINDANE -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5961265	29498250	60674666	131377042	265631107
RF	5961265000	5899650000	6067466600	6568852100	6640777675
Last Area					
Residual	-5.4091e-005	0.000242946	0.000364345	-0.000591296	-0.000999473
Rep StDev					
Rep %RSD					
Rep 1 Area	5961265	29498250	60674666	131377042	265631107
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	318537304	463165146		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:32
User: JJY
Instrument: Semi 1

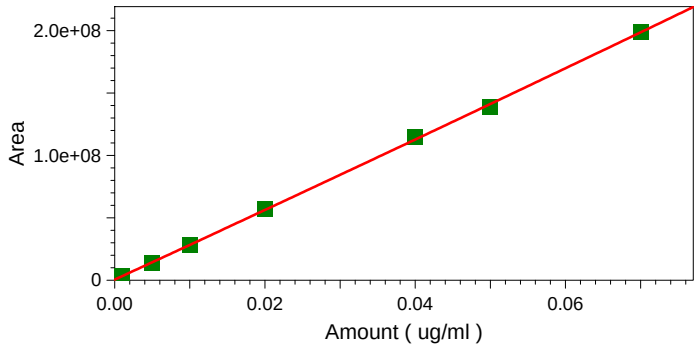
RF	6370746080	6616644942.85714		
Last Area Residual	0.00109373	-0.000152087	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	318537304	463165146		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:33
User: JJY
Instrument: Semi 1

BETABHC (back detector)
Average RF: 2.90111e+009 RF StDev: 2.15802e+008 RF %RSD: 7.43857
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 8.36620e+008x^2 + 2.77179e+009x + 511591.
Goodness of fit (r^2): 0.999601

Peak: BETABHC -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	3383166	13907138	28064424	56998911	114788409
RF	3383166000	2781427600	2806442400	2849945550	2869710225
Last Area					
Residual	-3.56745e-005	0.000174223	8.92168e-005	-0.000255492	-0.000727789
Rep StDev					
Rep %RSD					
Rep 1 Area	3383166	13907138	28064424	56998911	114788409
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	138484355	199319646		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:33
User: JJY
Instrument: Semi 1

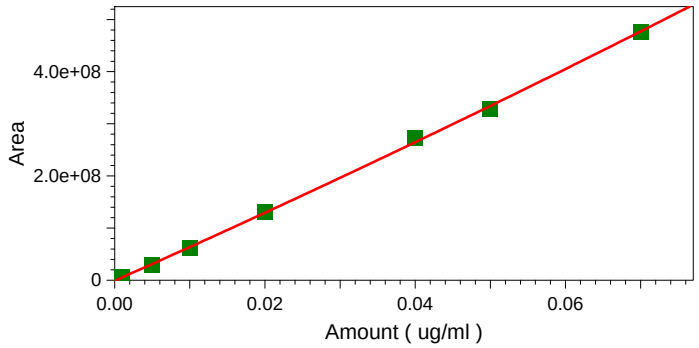
RF	2769687100	2847423514.28571		
Last Area Residual	0.000948807	-0.000236399	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	138484355	199319646		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:34
User: JJY
Instrument: Semi 1

DELTABHC (back detector)
Average RF: 6.37710e+009 RF StDev: 4.23315e+008 RF %RSD: 6.63804
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 6.31593e+009x^2 + 6.38850e+009x - 946673.
Goodness of fit (r^2): 0.999352

Peak: DELTABHC -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5828920	29316287	61662671	131787538	272832228
RF	5828920000	5863257400	6166267100	6589376900	6820805700
Last Area Residual	-5.94828e-005	0.000284878	0.000292834	-0.000366963	-0.00117857
Rep StDev					
Rep %RSD					
Rep 1 Area	5828920	29316287	61662671	131787538	272832228
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	327761151	477111243		

Calibration Report

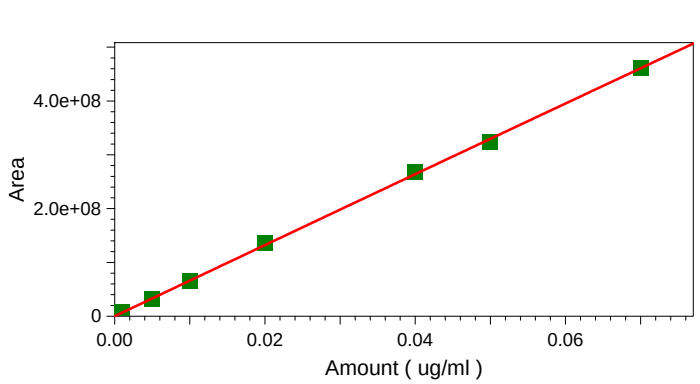
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:34
User: JJY
Instrument: Semi 1

RF	6555223020	6815874900		
Last Area Residual	0.000927664	1.16783e-005	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	327761151	477111243		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:35
User: JJY
Instrument: Semi 1

HEPTACHLOR (back detector)
Average RF: 6.61555e+009 RF StDev: 2.15648e+008 RF %RSD: 3.25971
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.80956e+008x^2 + 6.61736e+009x + 29050.5
Goodness of fit (r^2): 0.999573



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	6954428	31515124	65007526	135324670	268427077
RF	6954428000	6303024800	6500752600	6766233500	6710676925
Last Area Residual	-4.66269e-005	0.00024025	0.000173583	-0.000476039	-0.000679976
Rep StDev					
Rep %RSD					
Rep 1 Area	6954428	31515124	65007526	135324670	268427077
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	323452425	462328991		

Calibration Report

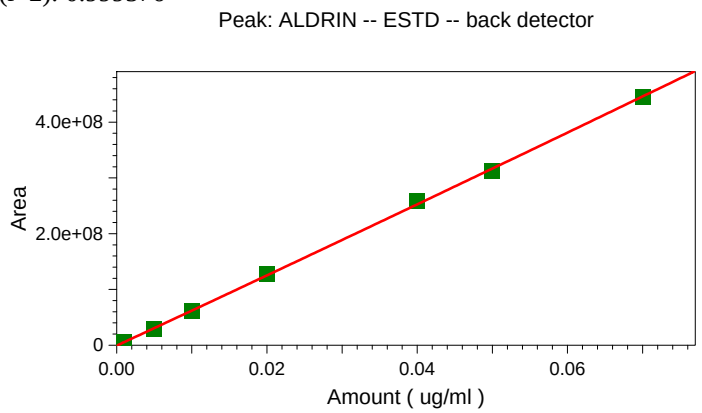
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:35
User: JJY
Instrument: Semi 1

RF	6469048500	6604699871.42857		
Last Area Residual	0.000950133	-0.000220095	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	323452425	462328991		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:36
User: JJY
Instrument: Semi 1

ALDRIN (back detector)
Average RF: 6.16183e+009 RF StDev: 2.80385e+008 RF %RSD: 4.55035
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.69987e+009x^2 + 6.26549e+009x - 768365.
Goodness of fit (r^2): 0.999576



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5875482	28559423	61036740	127397302	258511373
RF	5875482000	5711884600	6103674000	6369865100	6462784325
Last Area					
Residual	-6.0082e-005	0.000325087	0.000161895	-0.000343517	-0.000927716
Rep StDev					
Rep %RSD					
Rep 1 Area	5875482	28559423	61036740	127397302	258511373
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	311825226	446084368		

Calibration Report

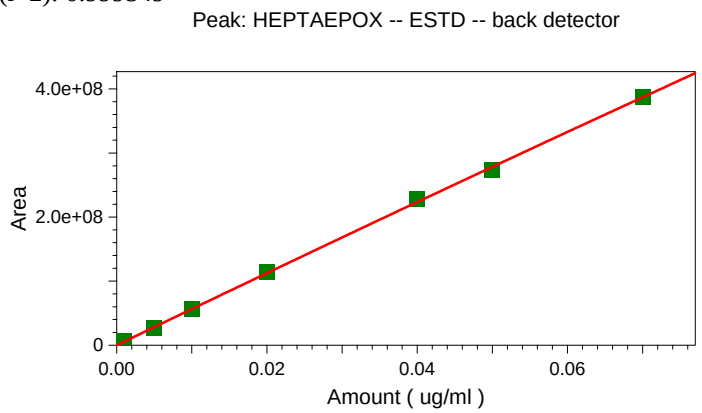
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:36
User: JJY
Instrument: Semi 1

RF	6236504520	6372633828.57143		
Last Area Residual	0.000766336	9.40376e-006	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	311825226	446084368		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:37
User: JJY
Instrument: Semi 1

HEPTAEPOX (back detector)
Average RF: 5.60441e+009 RF StDev: 1.44914e+008 RF %RSD: 2.58571
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.01339e+009x^2 + 5.67015e+009x - 62173.5
Goodness of fit (r^2): 0.999549



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5815777	27105345	55733973	114444469	227753026
RF	5815777000	5421069000	5573397300	5722223450	5693825650
Last Area Residual	-3.70301e-005	0.000200497	0.000125043	-0.00034157	-0.000768156
Rep StDev					
Rep %RSD					
Rep 1 Area	5815777	27105345	55733973	114444469	227753026
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	272873051	388300018		

Calibration Report

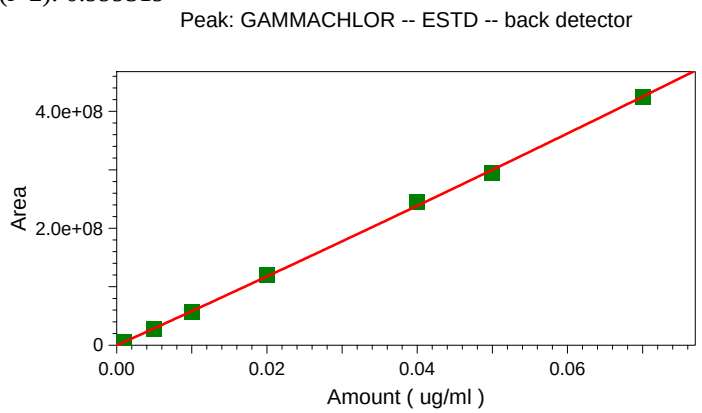
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:37
User: JJY
Instrument: Semi 1

RF	5457461020	5547143114.28571		
Last Area Residual	0.00101242	-0.000244506	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	272873051	388300018		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:39
User: JJY
Instrument: Semi 1

GAMMACHLOR (back detector)
Average RF: 5.86124e+009 RF StDev: 2.29325e+008 RF %RSD: 3.91257
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.58050e+009x^2 + 5.82691e+009x - 349836.
Goodness of fit (r^2): 0.999519



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5804637	27301235	56970344	119841100	244226383
RF	5804637000	5460247000	5697034400	5992055000	6105659575
Last Area Residual	-5.55304e-005	0.00026835	0.00022161	-0.000371849	-0.000943464
Rep StDev					
Rep %RSD					
Rep 1 Area	5804637	27301235	56970344	119841100	244226383
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	294572683	425432020		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:39
User: JJY
Instrument: Semi 1

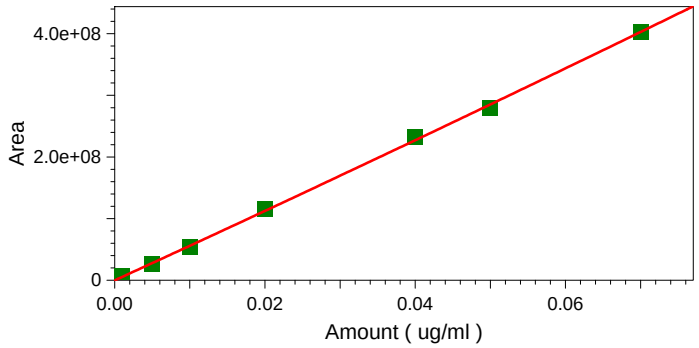
RF	5891453660	6077600285.71428		
Last Area Residual	0.000869377	-5.58636e-005	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	294572683	425432020		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:40
User: JJY
Instrument: Semi 1

ALPHACHLOR (back detector)
Average RF: 5.61453e+009 RF StDev: 1.86183e+008 RF %RSD: 3.31609
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.43246e+009x^2 + 5.58745e+009x - 224394.
Goodness of fit (r^2): 0.999451

Peak: ALPHACHLOR -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5642691	26456955	54612612	114685851	232708819
RF	5642691000	5291391000	5461261200	5734292550	5817720475
Last Area Residual	-4.95668e-005	0.000234661	0.000227267	-0.000384859	-0.000958293
Rep StDev					
Rep %RSD					
Rep 1 Area	5642691	26456955	54612612	114685851	232708819
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	279415509	403624895		

Calibration Report

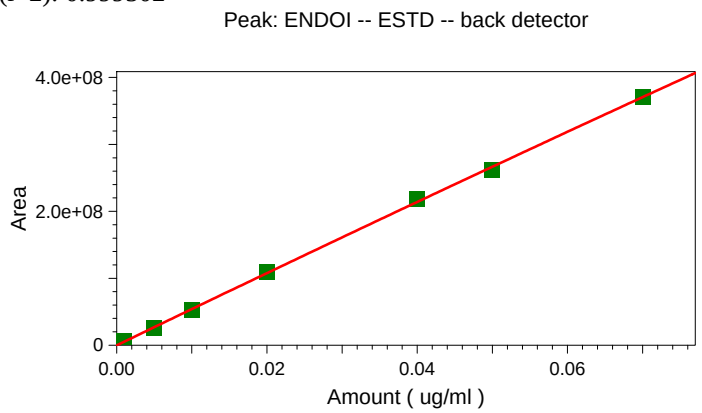
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:40
User: JJY
Instrument: Semi 1

RF	5588310180	5766069928.57143		
Last Area Residual	0.000997539	-0.000136376	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	279415509	403624895		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:41
User: JJY
Instrument: Semi 1

ENDOI (back detector)
Average RF: 5.34919e+009 RF StDev: 1.35491e+008 RF %RSD: 2.53293
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.94031e+009x^2 + 5.43261e+009x - 160904.
Goodness of fit (r^2): 0.999502



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5501305	25769483	53098567	109554168	218687600
RF	5501305000	5153896600	5309856700	5477708400	5467190000
Last Area Residual	-4.26508e-005	0.000218739	0.000161775	-0.000343446	-0.000881111
Rep StDev					
Rep %RSD					
Rep 1 Area	5501305	25769483	53098567	109554168	218687600
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	261288221	371602756		

Calibration Report

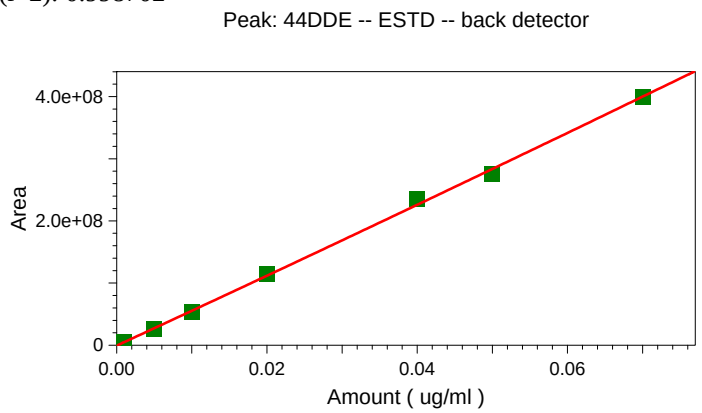
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:41
User: JJY
Instrument: Semi 1

RF	5225764420	5308610800		
Last Area Residual	0.00101722	-0.000191494	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	261288221	371602756		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:42
User: JJY
Instrument: Semi 1

44DDE (back detector)
Average RF: 5.50810e+009 RF StDev: 2.81301e+008 RF %RSD: 5.10703
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.90764e+009x^2 + 5.59034e+009x - 700261.
Goodness of fit (r^2): 0.998702



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5278081	25748617	52758214	114659646	235553270
RF	5278081000	5149723400	5275821400	5732982300	5888831750
Last Area					
Residual	-6.9016e-005	0.000276438	0.000468349	-0.000492285	-0.00166855
Rep StDev					
Rep %RSD					
Rep 1 Area	5278081	25748617	52758214	114659646	235553270
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	275679497	400237863		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:42
User: JJY
Instrument: Semi 1

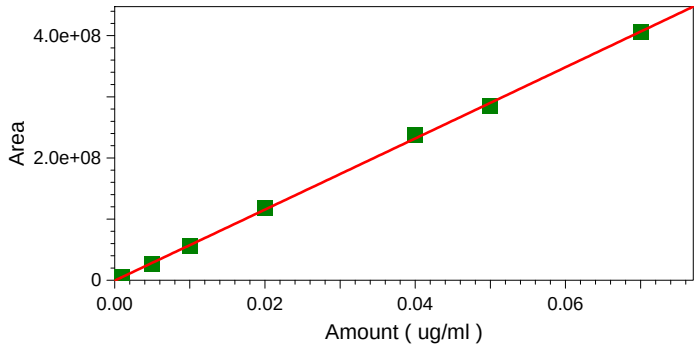
RF	5513589940	5717683757.14286		
Last Area Residual	0.00136823	-4.55726e-005	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	275679497	400237863		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:43
User: JJY
Instrument: Semi 1

DIELDRIN (back detector)
Average RF: 5.67925e+009 RF StDev: 2.23522e+008 RF %RSD: 3.93576
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.66081e+008x^2 + 5.80687e+009x - 671555.
Goodness of fit (r^2): 0.999417

Peak: DIELDRIN -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5464918	26733880	55979808	117766029	238131550
RF	5464918000	5346776000	5597980800	5888301450	5953288750
Last Area					
Residual	-5.67288e-005	0.000281153	0.000246801	-0.000384228	-0.00107598
Rep StDev					
Rep %RSD					
Rep 1 Area	5464918	26733880	55979808	117766029	238131550
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	284548958	406874071		

Calibration Report

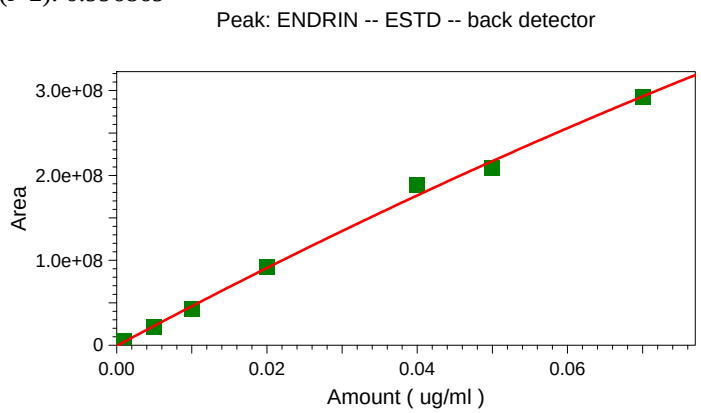
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:43
User: JJY
Instrument: Semi 1

RF	5690979160	5812486728.57143		
Last Area Residual	0.000951042	-4.3032e-005	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	284548958	406874071		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:44
User: JJY
Instrument: Semi 1

ENDRIN (back detector)
Average RF: 4.38326e+009 RF StDev: 2.08376e+008 RF %RSD: 4.75389
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -7.75960e+009x^2 + 4.73960e+009x - 721121.
Goodness of fit (r^2): 0.996869



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	4383064	21489118	43140783	92394599	188484593
RF	4383064000	4297823600	4314078300	4619729950	4712114825
Last Area Residual	-7.88276e-005	0.00027739	0.000601032	-0.000322467	-0.00293867
Rep StDev					
Rep %RSD					
Rep 1 Area	4383064	21489118	43140783	92394599	188484593
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	208515932	292999152		

Calibration Report

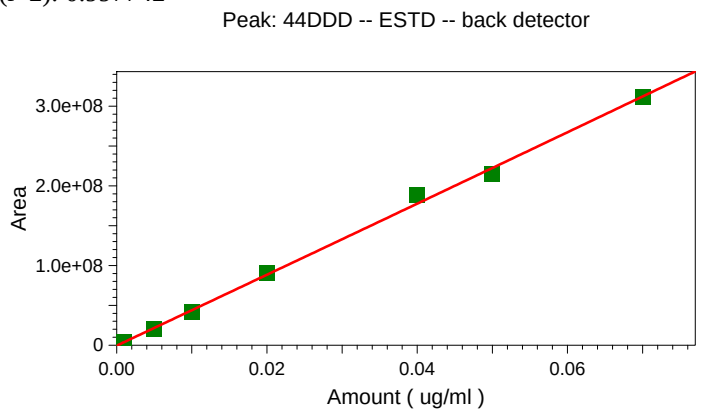
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:44
User: JJY
Instrument: Semi 1

RF	4170318640	4185702171.42857		
Last Area Residual	0.00209657	8.21606e-006	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	208515932	292999152		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:46
User: JJY
Instrument: Semi 1

44DDD (back detector)
Average RF: 4.34758e+009 RF StDev: 2.23120e+008 RF %RSD: 5.13205
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.79450e+008x^2 + 4.44115e+009x - 549559.
Goodness of fit (r^2): 0.997742



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	4230132	20569377	41082418	90448014	188152575
RF	4230132000	4113875400	4108241800	4522400700	4703814375
Last Area					
Residual	-7.61295e-005	0.000246644	0.000633351	-0.000453901	-0.00233634
Rep StDev					
Rep %RSD					
Rep 1 Area	4230132	20569377	41082418	90448014	188152575
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	214715572	312218180		

Calibration Report

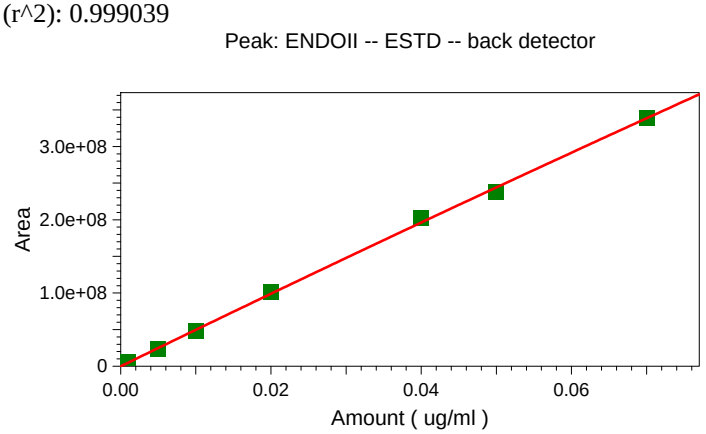
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:46
User: JJY
Instrument: Semi 1

RF	4294311440	4460259714.28571		
Last Area Residual	0.00172849	-6.22747e-006	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	214715572	312218180		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:47
User: JJY
Instrument: Semi 1

ENDOII (back detector)
Average RF: 4.91879e+009 RF StDev: 1.52148e+008 RF %RSD: 3.09320
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.30112e+009x^2 + 4.99927e+009x - 99982.2
Goodness of fit (r^2): 0.999039



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5122455	23963948	48063886	100877193	202506887
RF	5122455000	4792789600	4806388600	5043859650	5062672175
Last Area Residual	-4.51434e-005	0.000175796	0.000322707	-0.000389761	-0.00131293
Rep StDev					
Rep %RSD					
Rep 1 Area	5122455	23963948	48063886	100877193	202506887
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	237551643	339662858		

Calibration Report

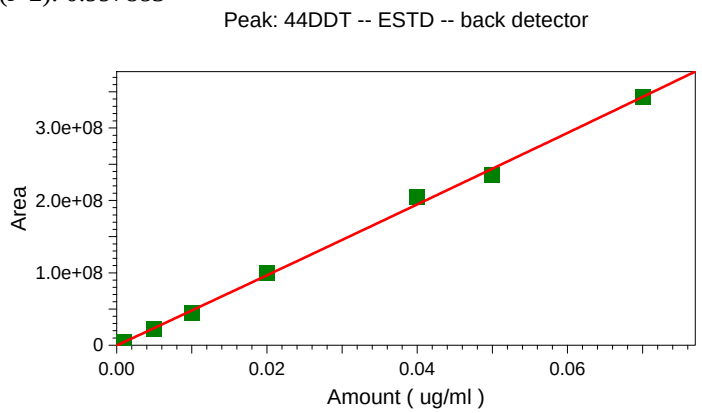
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:47
User: JJY
Instrument: Semi 1

RF	4751032860	4852326542.85714		
Last Area Residual	0.00137436	-0.000233009	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	237551643	339662858		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:48
User: JJY
Instrument: Semi 1

44DDT (back detector)
Average RF: 4.77116e+009 RF StDev: 2.31984e+008 RF %RSD: 4.86221
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.06820e+009x^2 + 4.83208e+009x - 485134.
Goodness of fit (r^2): 0.997883



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	4677147	22668077	44994496	99042958	205099142
RF	4677147000	4533615400	4499449600	4952147900	5127478550
Last Area Residual	-6.80825e-005	0.000213505	0.000607487	-0.000504408	-0.00215289
Rep StDev					
Rep %RSD					
Rep 1 Area	4677147	22668077	44994496	99042958	205099142
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	234973077	343616407		

Calibration Report

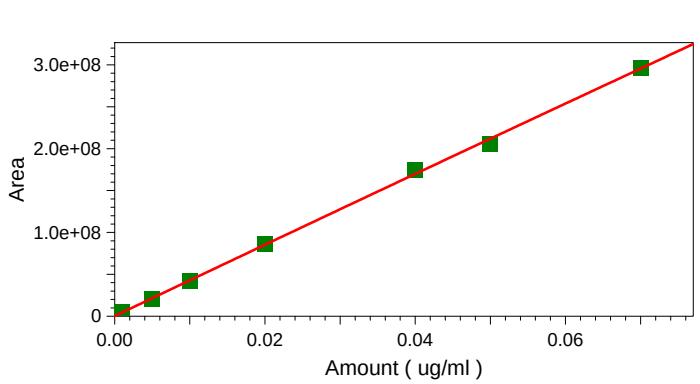
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:48
User: JJY
Instrument: Semi 1

RF	4699461540	4908805814.28571		
Last Area Residual	0.00178578	-0.000124776	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	234973077	343616407		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:49
User: JJY
Instrument: Semi 1

ENDRINALDEH (back detector)
Average RF: 4.30279e+009 RF StDev: 1.85263e+008 RF %RSD: 4.30565
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -6.45087e+008x^2 + 4.26524e+009x + 258206.
Goodness of fit (r^2): 0.999060



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	4670558	21059246	41656433	86649646	175089863
RF	4670558000	4211849200	4165643300	4332482300	4377246575
Last Area Residual	-3.46531e-005	0.000119522	0.000279754	-0.000317201	-0.0012472
Rep StDev					
Rep %RSD					
Rep 1 Area	4670558	21059246	41656433	86649646	175089863
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	205991170	296937217		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:49
User: JJY
Instrument: Semi 1

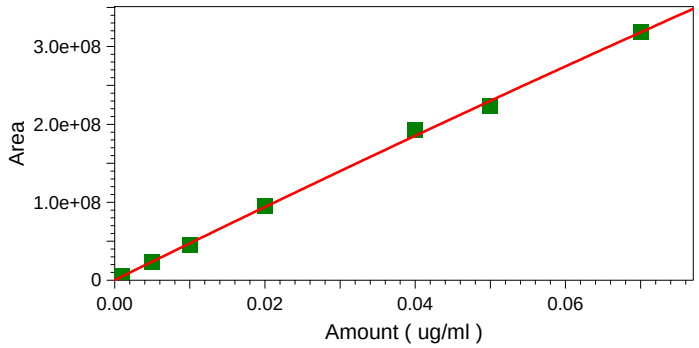
RF	4119823400	4241960242.85714		
Last Area Residual	0.00140809	-0.000304973	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	205991170	296937217		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:50
User: JJY
Instrument: Semi 1

ENDOSULFATE (back detector)
Average RF: 4.71092e+009 RF StDev: 2.37299e+008 RF %RSD: 5.03722
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.93400e+009x^2 + 4.74666e+009x + 201547.
Goodness of fit (r^2): 0.998655

Peak: ENDOSULFATE -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	5160091	23283347	45342201	95757867	192640182
RF	5160091000	4656669400	4534220100	4787893350	4816004550
Last Area					
Residual	-4.5314e-005	0.000122549	0.000433447	-0.000388216	-0.00161223
Rep StDev					
Rep %RSD					
Rep 1 Area	5160091	23283347	45342201	95757867	192640182
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	223075543	319201193		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:50
User: JJY
Instrument: Semi 1

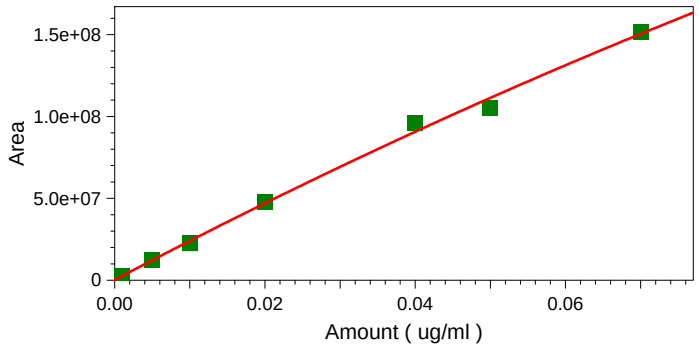
RF	4461510860	4560017042.85714		
Last Area Residual	0.00159804	-0.000256064	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	223075543	319201193		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:51
User: JJY
Instrument: Semi 1

METHOXYCL (back detector)
Average RF: 2.35979e+009 RF StDev: 1.96778e+008 RF %RSD: 8.33880
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -3.84548e+009x^2 + 2.41513e+009x + 242111.
Goodness of fit (r^2): 0.996303

Peak: METHOXYCL -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2700386	12309720	22908915	47581356	96258058
RF	2700386000	2461944000	2290891500	2379067800	2406451450
Last Area					
Residual	-1.952e-005	-3.70717e-005	0.000470053	-0.000254326	-0.00265274
Rep StDev					
Rep %RSD					
Rep 1 Area	2700386	12309720	22908915	47581356	96258058
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	105462259	151937065		
RF	2109245180	2170529500		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:51
User: JJY
Instrument: Semi 1

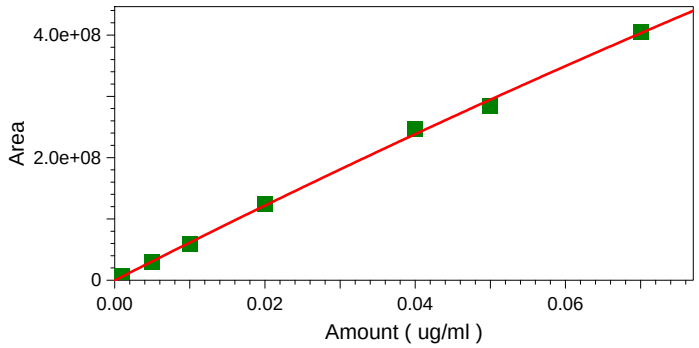
Last Area Residual	0.00290076	-0.00078922	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	105462259	151937065		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:52
User: JJY
Instrument: Semi 1

ENDRINKETONE (back detector)
Average RF: 6.00064e+009 RF StDev: 1.97655e+008 RF %RSD: 3.29390
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -6.80680e+009x^2 + 6.23514e+009x - 234382.
Goodness of fit (r^2): 0.998586

Peak: ENDRINKETONE -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	6143531	30258039	59664968	124124113	246319054
RF	6143531000	6051607800	5966496800	6206205650	6157976350
Last Area					
Residual	-2.40432e-005	8.31928e-005	0.00029034	-0.000399056	-0.00141503
Rep StDev					
Rep %RSD					
Rep 1 Area	6143531	30258039	59664968	124124113	246319054
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	0.05	0.07	0	0
Area	284085280	405786012		

Calibration Report

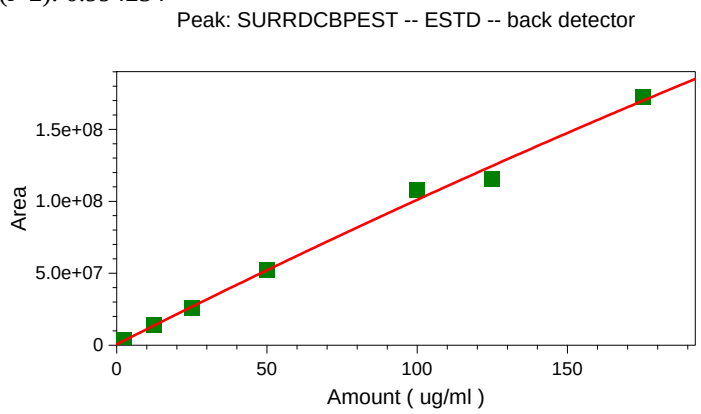
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:52
User: JJY
Instrument: Semi 1

RF	5681705600	5796943028.57143		
Last Area Residual	0.00187173	-0.000552054	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	284085280	405786012		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:53
User: JJY
Instrument: Semi 1

SURRDCBPEST (back detector)
Average RF: 1.07163e+006 RF StDev: 114688. RF %RSD: 10.7023
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -503.547x^2 + 1.05486e+006x + 628815.
Goodness of fit (r^2): 0.994254



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	3207250	14218705	25950197	52382480	108127623
RF	1282900	1137496.4	1038007.88	1047649.6	1081276.23
Last Area Residual	0.052804	-0.463335	0.713965	-0.268332	-7.41593
Rep StDev					
Rep %RSD					
Rep 1 Area	3207250	14218705	25950197	52382480	108127623
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\004.dat	C:\Instarch\Semi1\data\082213pstic\005.dat	C:\Instarch\Semi1\data\082213pstic\006.dat	C:\Instarch\Semi1\data\082213pstic\007.dat	C:\Instarch\Semi1\data\082213pstic\008.dat
Rep 1 Sample ID	Pest ICAL 1 PP 3845	Pest ICAL 2 PP 3846	Pest ICAL 3 PP 3847	Pest ICAL 4 PP 3848	Pest ICAL 5 PP 3849
Rep 1 Calib. Time	Aug 22,2013 18:18:58	Aug 22,2013 18:19:06	Aug 22,2013 18:19:14	Aug 22,2013 18:19:22	Aug 22,2013 18:19:30

	Level 6	Level 7	Level 9	Level 10
Amount	125	175	0	0
Area	115794610	172847452		

Calibration Report

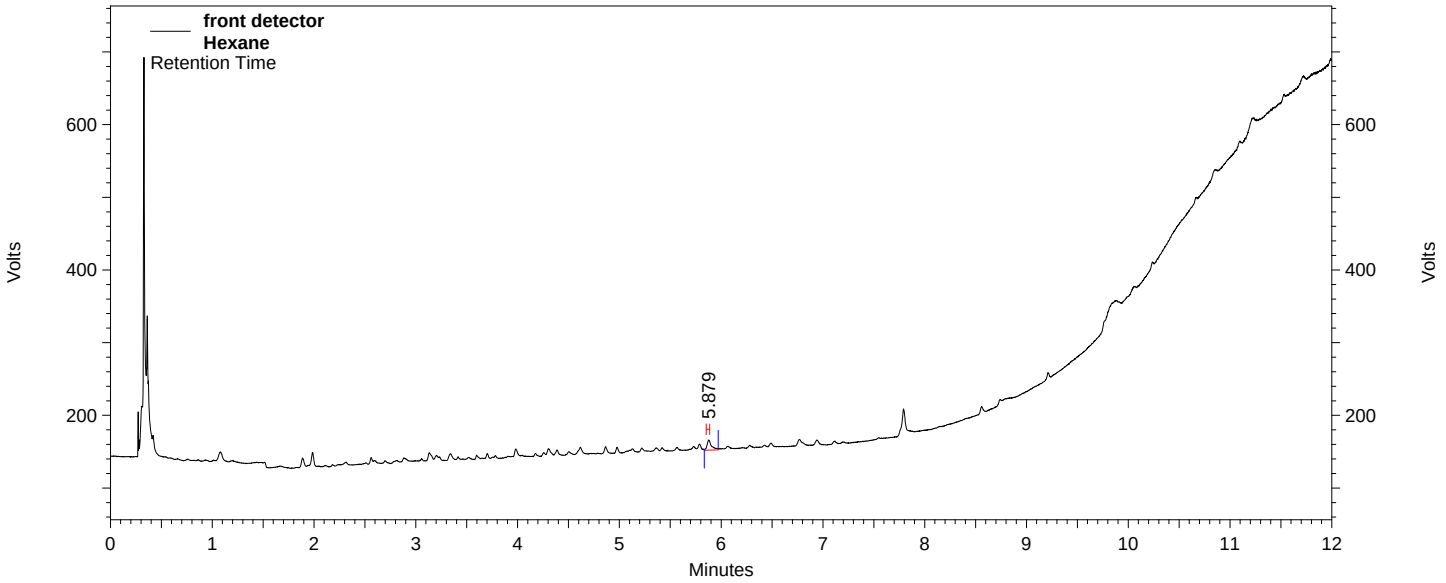
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
Print Time: Aug 29,2013 09:01:53
User: JJY
Instrument: Semi 1

RF	926356.88	987699.725714286		
Last Area Residual	9.45009	-3.4659	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	115794610	172847452		
Rep 1 User	JJY	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\009.dat	C:\Instarch\Semi1\data\082213pstic\010.dat		
Rep 1 Sample ID	Pest ICAL 6 PP 3850	Pest ICAL 7 PP 3851		
Rep 1 Calib. Time	Aug 22,2013 18:19:38	Aug 22,2013 18:19:46		

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\003.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Hexane
Acquired: Aug 22,2013 15:58:30
Printed: Aug 29,2013 08:58:00

Data Summary: {Data Description}



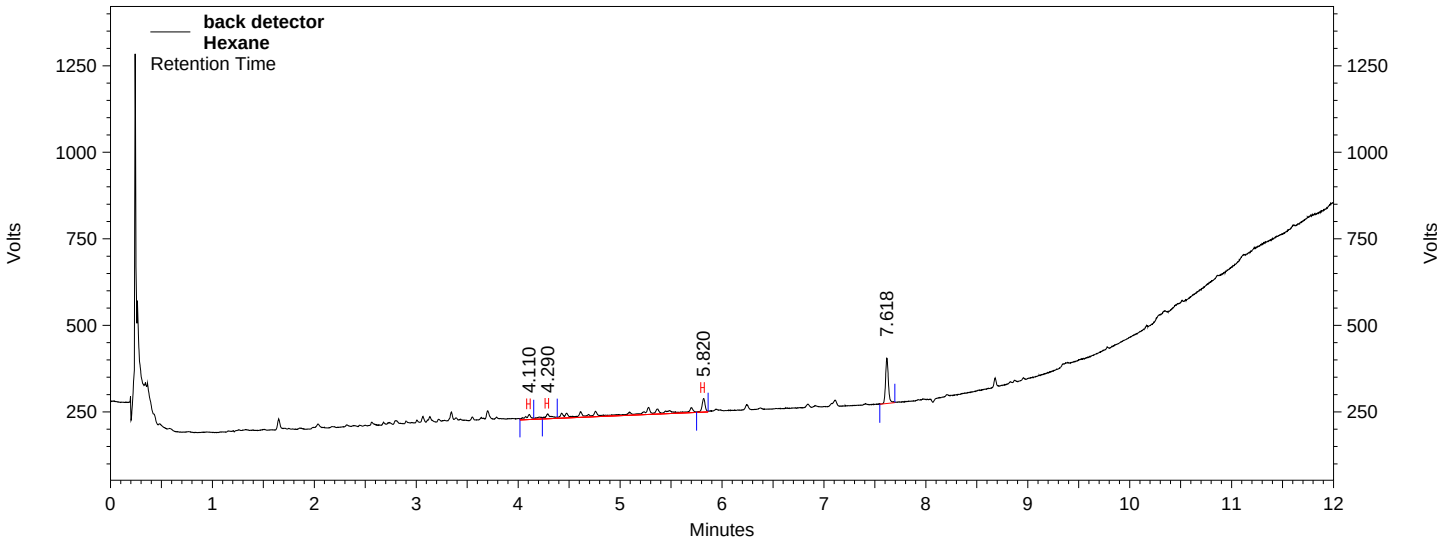
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST			0.0000 BDL
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
44DDE			0.0000 BDL
ENDOI			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH	5.879	331411	0.0000
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST			0.0000 BDL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\003.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Hexane
Acquired: Aug 22,2013 15:58:30
Printed: Aug 29,2013 08:58:00

Data Summary: {Data Description}



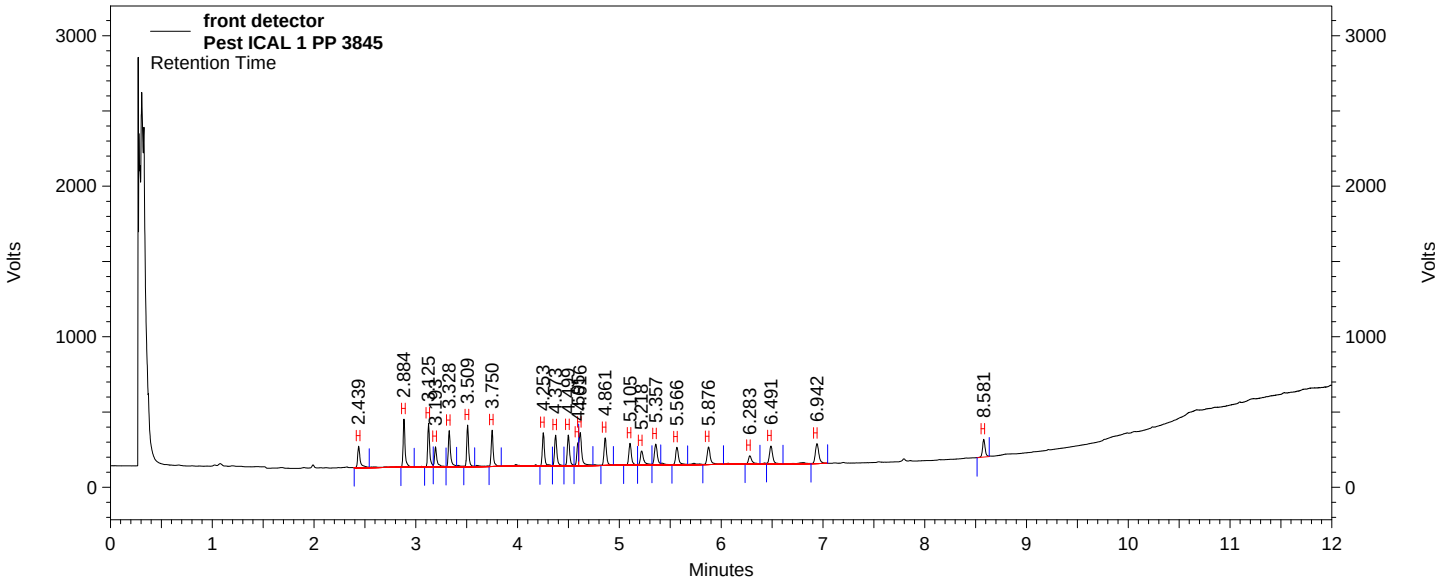
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST			0.0000 BDL
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX	4.110	416004	0.0000
GAMMACHLOR	4.290	412721	0.0000
ALPHACHLOR			0.0000 BDL
ENDOI			0.0000 BDL
44DDE			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH	5.820	658509	0.0000
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST			0.0000 BDL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 1 PP 3845
Acquired: Aug 22,2013 16:15:07
Printed: Aug 29,2013 08:58:03

Data Summary: {Data Description}



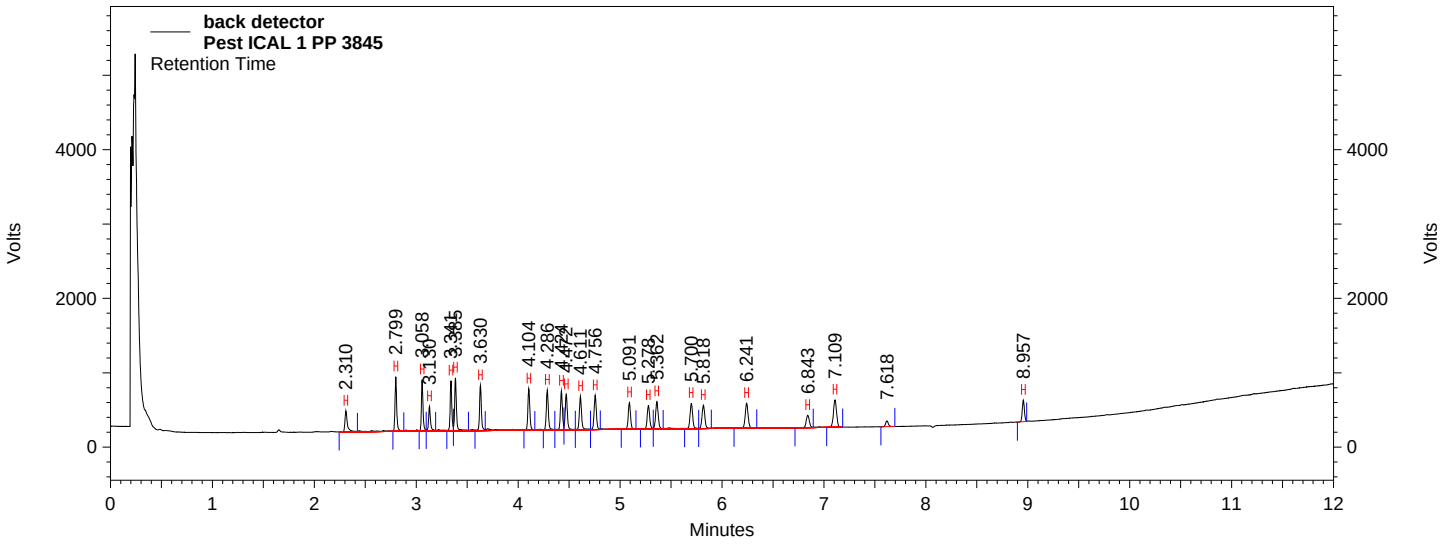
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.439	1938911	2.5000 CAL
ALPHABHC	2.884	3360866	0.0010 CAL
LINDANE	3.125	3032334	0.0010 CAL
BETABHC	3.193	1748708	0.0010 CAL
DELTABHC	3.328	2808151	0.0010 CAL
HEPTACHLOR	3.509	2900299	0.0010 CAL
ALDRIN	3.750	2615780	0.0010 CAL
HEPTAEPOX	4.253	2582903	0.0010 CAL
GAMMACHLOR	4.373	2503286	0.0010 CAL
ALPHACHLOR	4.499	2461067	0.0010 CAL
44DDE	4.595	1419883	0.0010 CAL
ENDOI	4.616	3128620	0.0010 CAL
DIELDRIN	4.861	2409986	0.0010 CAL
ENDRIN	5.105	2004694	0.0010 CAL
44DDD	5.218	1706075	0.0010 CAL
ENDOII	5.357	2164907	0.0010 CAL
44DDT	5.566	1842817	0.0010 CAL
ENDRINALDEH	5.876	2031707	0.0010 CAL
METHOXYCL	6.283	1058793	0.0010 CAL
ENDOSULFATE	6.491	2083830	0.0010 CAL
ENDRINKETONE	6.942	2454240	0.0010 CAL
SURRDCBPEST	8.581	1595597	2.5000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 1 PP 3845
Acquired: Aug 22,2013 16:15:07
Printed: Aug 29,2013 08:58:03

Data Summary: {Data Description}



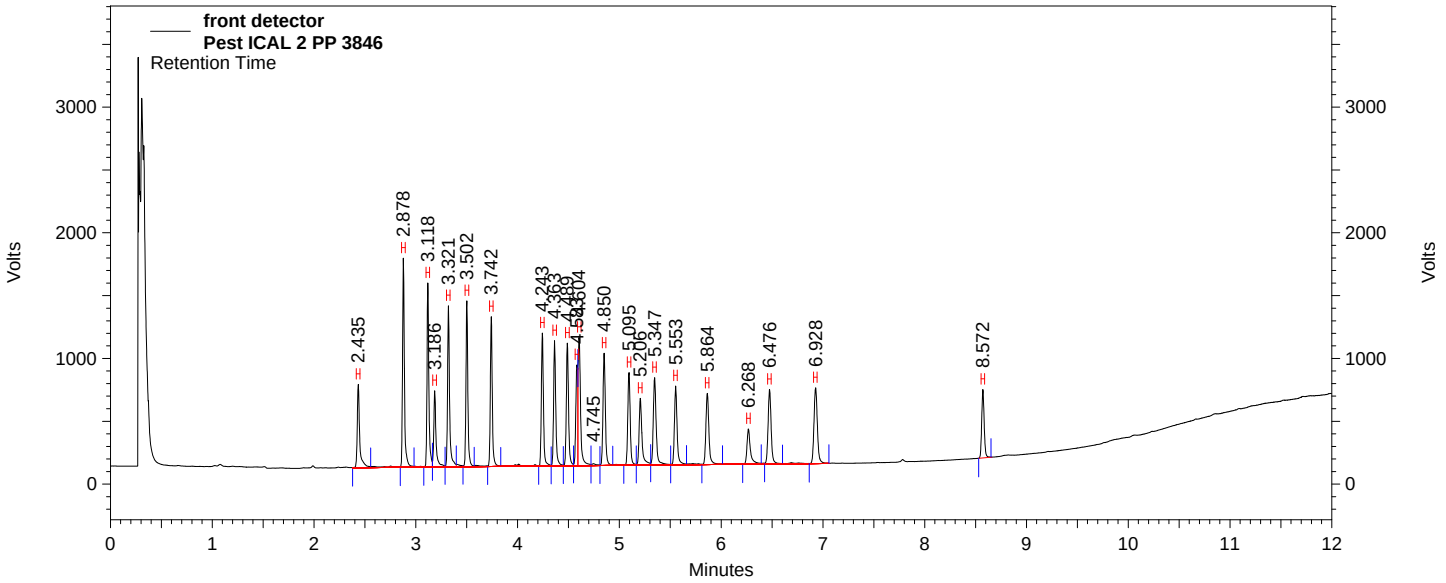
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	3624435	2.5000 CAL
ALPHABHC	2.799	6570439	0.0010 CAL
LINDANE	3.058	5961265	0.0010 CAL
BETABHC	3.130	3383166	0.0010 CAL
DELTABHC	3.341	5828920	0.0010 CAL
HEPTACHLOR	3.385	6954428	0.0010 CAL
ALDRIN	3.630	5875482	0.0010 CAL
HEPTAEPOX	4.104	5815777	0.0010 CAL
GAMMACHLOR	4.286	5804637	0.0010 CAL
ALPHACHLOR	4.424	5642691	0.0010 CAL
ENDOI	4.472	5501305	0.0010 CAL
44DDE	4.611	5278081	0.0010 CAL
DIELDRIN	4.756	5464918	0.0010 CAL
ENDRIN	5.091	4383064	0.0010 CAL
44DDD	5.278	4230132	0.0010 CAL
ENDOII	5.362	5122455	0.0010 CAL
44DDT	5.700	4677147	0.0010 CAL
ENDRINALDEH	5.818	4670558	0.0010 CAL
ENDOSULFATE	6.241	5160091	0.0010 CAL
METHOXYCL	6.843	2700386	0.0010 CAL
ENDRINKETONE	7.109	6143531	0.0010 CAL
SURRDCBPEST	8.957	3207250	2.5000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 2 PP 3846
Acquired: Aug 22,2013 16:31:51
Printed: Aug 29,2013 08:58:05

Data Summary: {Data Description}



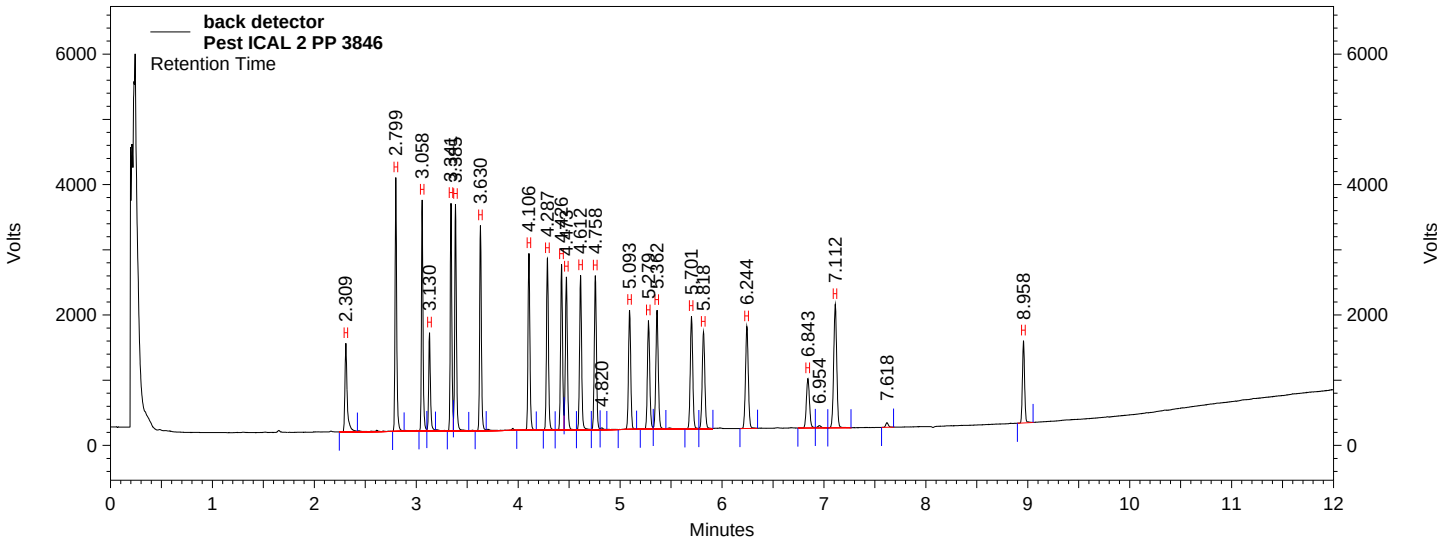
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.435	8486200	12.5000 CAL
ALPHABHC	2.878	16162430	0.0050 CAL
LINDANE	3.118	14175850	0.0050 CAL
BETABHC	3.186	7165591	0.0050 CAL
DELTABHC	3.321	13536085	0.0050 CAL
HEPTACHLOR	3.502	13250941	0.0050 CAL
ALDRIN	3.742	12109287	0.0050 CAL
HEPTAEPOX	4.243	11528834	0.0050 CAL
GAMMACHLOR	4.363	11265219	0.0050 CAL
ALPHACHLOR	4.489	11217610	0.0050 CAL
44DDE	4.583	8289490	0.0050 CAL
ENDOI	4.604	12759492	0.0050 CAL
DIELDRIN	4.850	11127791	0.0050 CAL
ENDRIN	5.095	9243259	0.0050 CAL
44DDD	5.206	8122366	0.0050 CAL
ENDOII	5.347	10536814	0.0050 CAL
44DDT	5.553	8874860	0.0050 CAL
ENDRINALDEH	5.864	9019615	0.0050 CAL
METHOXYCL	6.268	5132235	0.0050 CAL
ENDOSULFATE	6.476	9639972	0.0050 CAL
ENDRINKETONE	6.928	10751963	0.0050 CAL
SURRDCBPEST	8.572	7082098	12.5000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 2 PP 3846
Acquired: Aug 22,2013 16:31:51
Printed: Aug 29,2013 08:58:05

Data Summary: {Data Description}



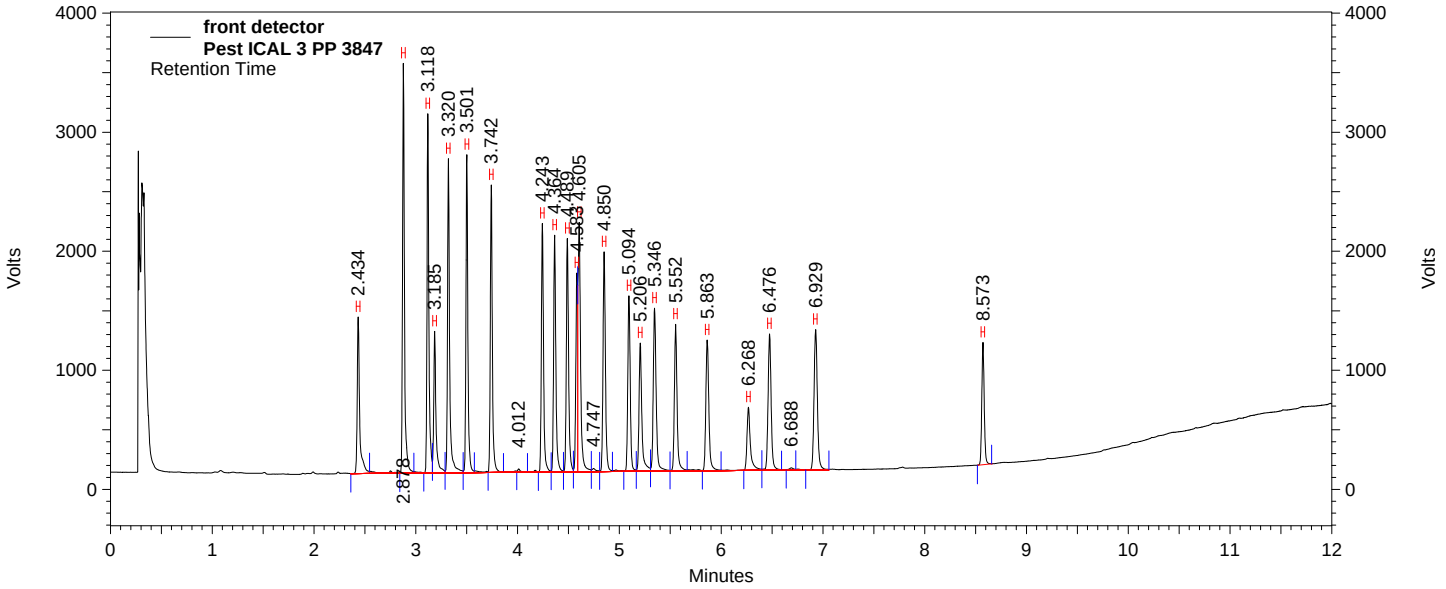
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	16461778	12.5000 CAL
ALPHABHC	2.799	33624769	0.0050 CAL
LINDANE	3.058	29498250	0.0050 CAL
BETABHC	3.130	13907138	0.0050 CAL
DELTABHC	3.341	29316287	0.0050 CAL
HEPTACHLOR	3.385	31515124	0.0050 CAL
ALDRIN	3.630	28559423	0.0050 CAL
HEPTAEPOX	4.106	27105345	0.0050 CAL
GAMMACHLOR	4.287	27301235	0.0050 CAL
ALPHACHLOR	4.426	26456955	0.0050 CAL
ENDOI	4.473	25769483	0.0050 CAL
44DDE	4.612	25748617	0.0050 CAL
DIELDRIN	4.758	26733880	0.0050 CAL
ENDRIN	5.093	21489118	0.0050 CAL
44DDD	5.279	20569377	0.0050 CAL
ENDOII	5.362	23963948	0.0050 CAL
44DDT	5.701	22668077	0.0050 CAL
ENDRINALDEH	5.818	21059246	0.0050 CAL
ENDOSULFATE	6.244	23283347	0.0050 CAL
METHOXYCL	6.843	12309720	0.0050 CAL
ENDRINKETONE	7.112	30258039	0.0050 CAL
SURRDCBPEST	8.958	14218705	12.5000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\006.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 3 PP 3847
Acquired: Aug 22,2013 16:48:30
Printed: Aug 29,2013 08:58:07

Data Summary: {Data Description}



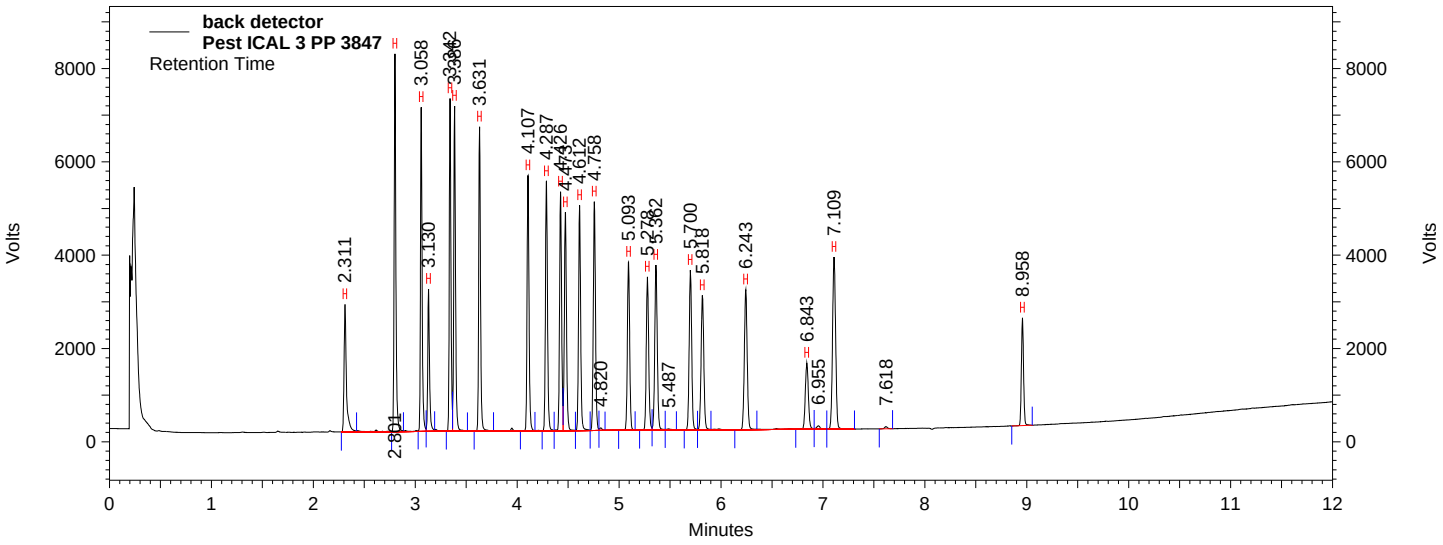
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	16926514	25.0000 CAL
ALPHABHC	2.878	34215646	0.0100 CAL
LINDANE	3.118	29586630	0.0100 CAL
BETABHC	3.185	14138386	0.0100 CAL
DELTABHC	3.320	29113455	0.0100 CAL
HEPTACHLOR	3.501	27179176	0.0100 CAL
ALDRIN	3.742	25450726	0.0100 CAL
HEPTAEPOX	4.243	23603067	0.0100 CAL
GAMMACHLOR	4.364	23204899	0.0100 CAL
ALPHACHLOR	4.489	22958112	0.0100 CAL
44DDE	4.583	15012150	0.0100 CAL
ENDOI	4.605	28140986	0.0100 CAL
DIELDRIN	4.850	23040616	0.0100 CAL
ENDRIN	5.094	18367128	0.0100 CAL
44DDD	5.206	15940319	0.0100 CAL
ENDOII	5.346	20666469	0.0100 CAL
44DDT	5.552	17477249	0.0100 CAL
ENDRINALDEH	5.863	17471775	0.0100 CAL
METHOXYCL	6.268	9615133	0.0100 CAL
ENDOSULFATE	6.476	18746257	0.0100 CAL
ENDRINKETONE	6.929	20712516	0.0100 CAL
SURRDCBPEST	8.573	13099707	25.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\006.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 3 PP 3847
Acquired: Aug 22,2013 16:48:30
Printed: Aug 29,2013 08:58:07

Data Summary: {Data Description}



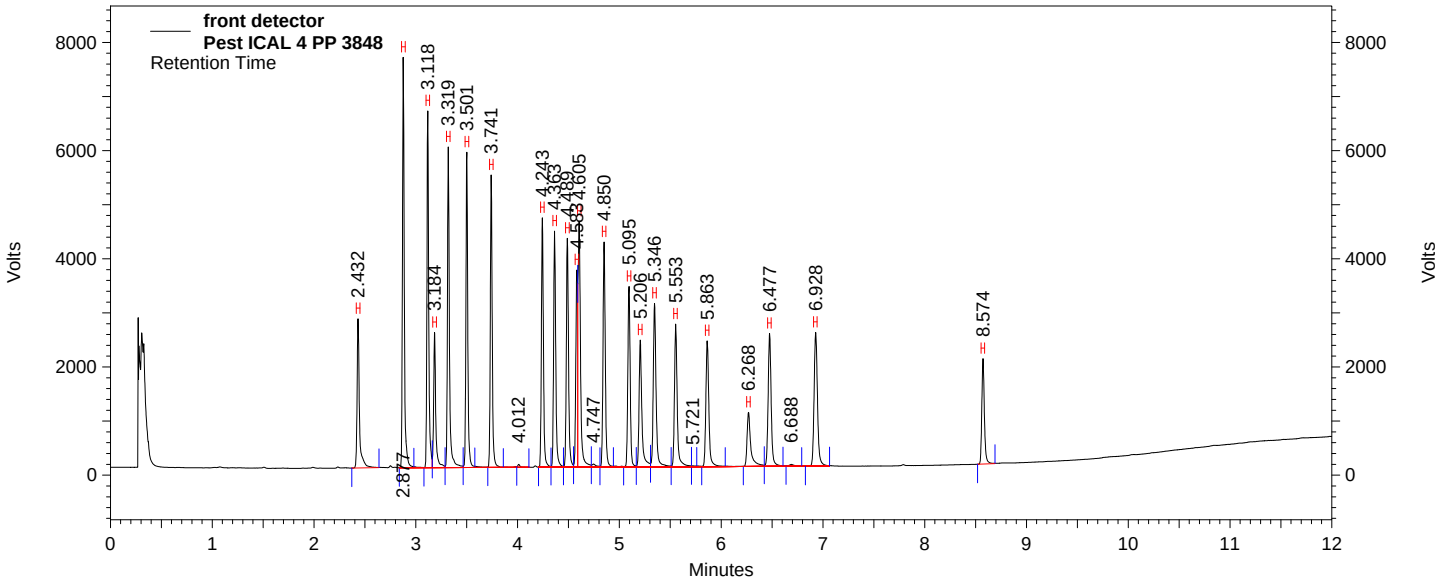
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.311	34003183	25.0000 CAL
ALPHABHC	2.801	72398789	0.0100 CAL
LINDANE	3.058	60674666	0.0100 CAL
BETABHC	3.130	28064424	0.0100 CAL
DELTABHC	3.342	61662671	0.0100 CAL
HEPTACHLOR	3.386	65007526	0.0100 CAL
ALDRIN	3.631	61036740	0.0100 CAL
HEPTAEPOX	4.107	55733973	0.0100 CAL
GAMMACHLOR	4.287	56970344	0.0100 CAL
ALPHACHLOR	4.426	54612612	0.0100 CAL
ENDOI	4.473	53098567	0.0100 CAL
44DDE	4.612	52758214	0.0100 CAL
DIELDRIN	4.758	55979808	0.0100 CAL
ENDRIN	5.093	43140783	0.0100 CAL
44DDD	5.278	41082418	0.0100 CAL
ENDOII	5.362	48063886	0.0100 CAL
44DDT	5.700	44994496	0.0100 CAL
ENDRINALDEH	5.818	41656433	0.0100 CAL
ENDOSULFATE	6.243	45342201	0.0100 CAL
METHOXYCL	6.843	22908915	0.0100 CAL
ENDRINKETONE	7.109	59664968	0.0100 CAL
SURRDCBPEST	8.958	25950197	25.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 4 PP 3848
Acquired: Aug 22,2013 17:05:16
Printed: Aug 29,2013 08:58:09

Data Summary: {Data Description}



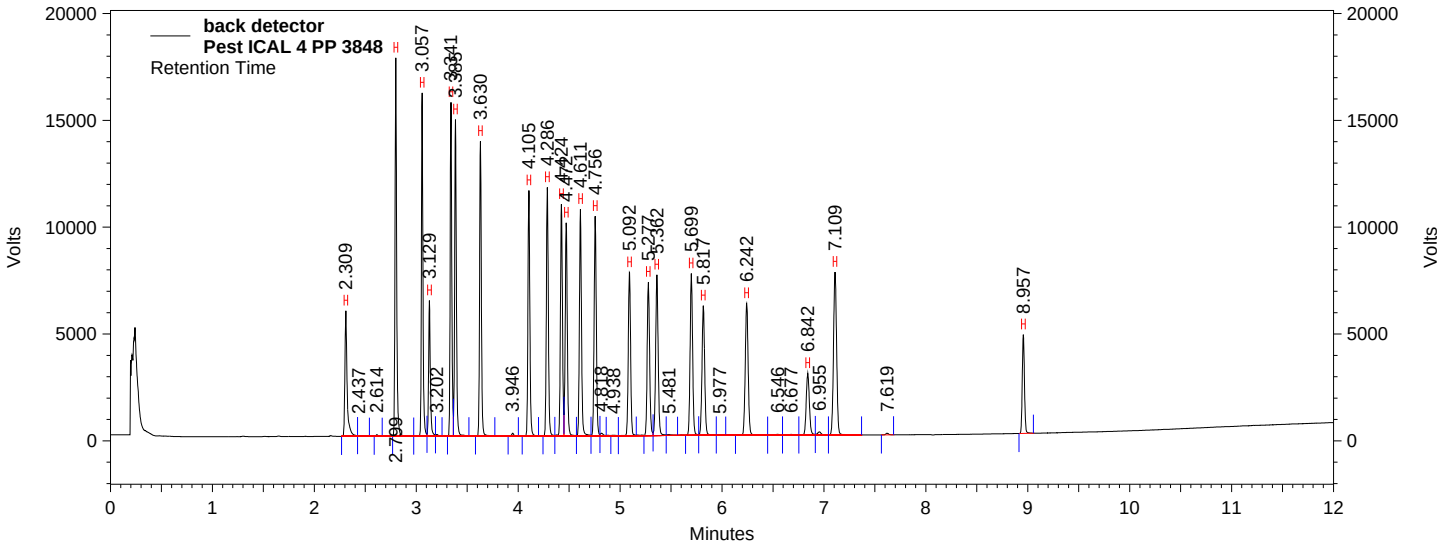
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.432	33932991	50.0000 CAL
ALPHABHC	2.877	71578041	0.0200 CAL
LINDANE	3.118	62035984	0.0200 CAL
BETABHC	3.184	27638488	0.0200 CAL
DELTABHC	3.319	61669873	0.0200 CAL
HEPTACHLOR	3.501	56671549	0.0200 CAL
ALDRIN	3.741	53298666	0.0200 CAL
HEPTAEPOX	4.243	48629667	0.0200 CAL
GAMMACHLOR	4.363	48668333	0.0200 CAL
ALPHACHLOR	4.489	47946877	0.0200 CAL
44DDE	4.583	34351102	0.0200 CAL
ENDOI	4.605	57958684	0.0200 CAL
DIELDRIN	4.850	49374436	0.0200 CAL
ENDRIN	5.095	39950822	0.0200 CAL
44DDD	5.206	34315632	0.0200 CAL
ENDOII	5.346	44137468	0.0200 CAL
44DDT	5.553	38550930	0.0200 CAL
ENDRINALDEH	5.863	36582270	0.0200 CAL
METHOXYCL	6.268	19878563	0.0200 CAL
ENDOSULFATE	6.477	39661535	0.0200 CAL
ENDRINKETONE	6.928	44271294	0.0200 CAL
SURRDCBPEST	8.574	26455139	50.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 4 PP 3848
Acquired: Aug 22,2013 17:05:16
Printed: Aug 29,2013 08:58:09

Data Summary: {Data Description}



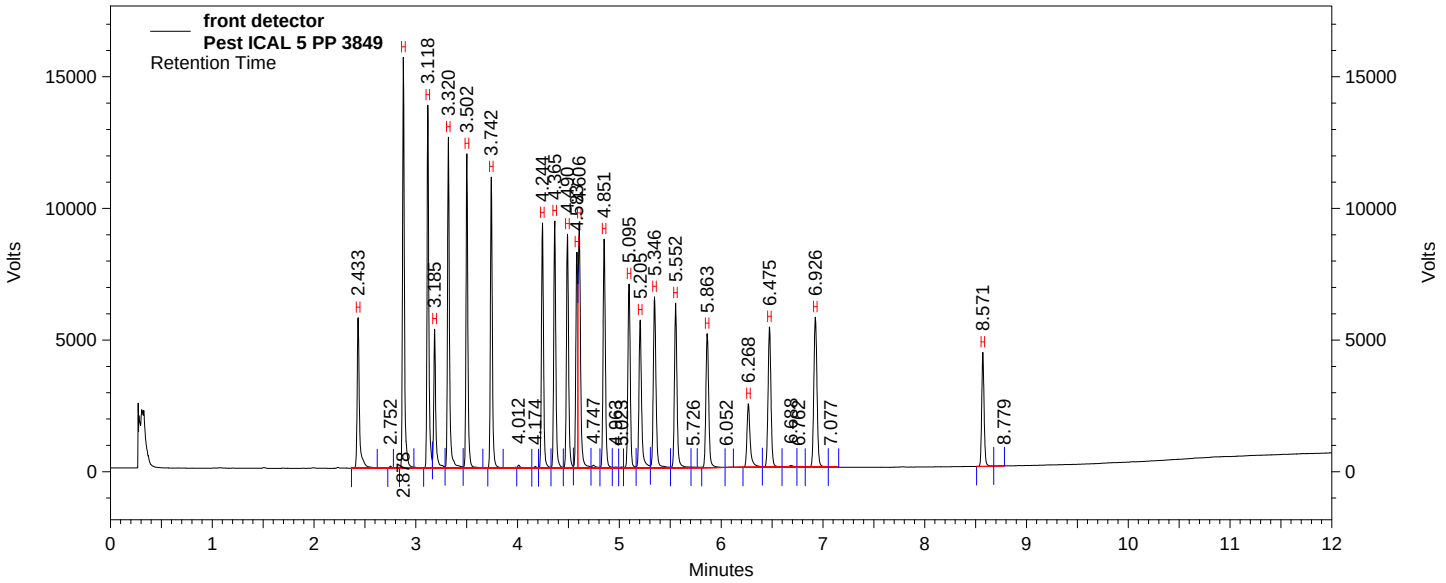
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	69250764	50.0000 CAL
ALPHABHC	2.799	152583747	0.0200 CAL
LINDANE	3.057	131377042	0.0200 CAL
BETABHC	3.129	56998911	0.0200 CAL
DELTABHC	3.341	131787538	0.0200 CAL
HEPTACHLOR	3.385	135324670	0.0200 CAL
ALDRIN	3.630	127397302	0.0200 CAL
HEPTAEPOX	4.105	114444469	0.0200 CAL
GAMMACHLOR	4.286	119841100	0.0200 CAL
ALPHACHLOR	4.424	114685851	0.0200 CAL
ENDOI	4.472	109554168	0.0200 CAL
44DDE	4.611	114659646	0.0200 CAL
DIELDRIN	4.756	117766029	0.0200 CAL
ENDRIN	5.092	92394599	0.0200 CAL
44DDD	5.277	90448014	0.0200 CAL
ENDOII	5.362	100877193	0.0200 CAL
44DDT	5.699	99042958	0.0200 CAL
ENDRINALDEH	5.817	86649646	0.0200 CAL
ENDOSULFATE	6.242	95757867	0.0200 CAL
METHOXYCL	6.842	47581356	0.0200 CAL
ENDRINKETONE	7.109	124124113	0.0200 CAL
SURRDCBPEST	8.957	52382480	50.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 5 PP 3849
Acquired: Aug 22,2013 17:21:57
Printed: Aug 29,2013 08:58:11

Data Summary: {Data Description}



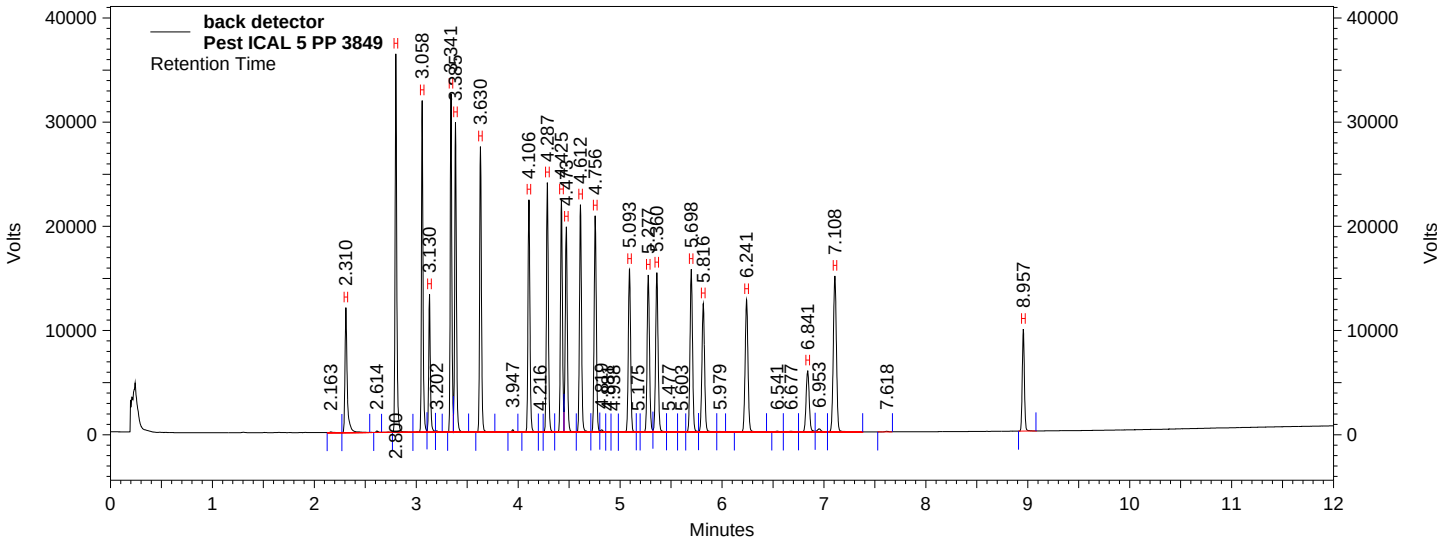
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	69419739	100.0000 CAL
ALPHABHC	2.878	149855238	0.0400 CAL
LINDANE	3.118	128993786	0.0400 CAL
BETABHC	3.185	55970844	0.0400 CAL
DELTABHC	3.320	129900796	0.0400 CAL
HEPTACHLOR	3.502	116923587	0.0400 CAL
ALDRIN	3.742	110829516	0.0400 CAL
HEPTAEPOX	4.244	100217099	0.0400 CAL
GAMMACHLOR	4.365	101989318	0.0400 CAL
ALPHACHLOR	4.490	99563463	0.0400 CAL
44DDE	4.583	81252335	0.0400 CAL
ENDOI	4.606	112893363	0.0400 CAL
DIELDRIN	4.851	103609141	0.0400 CAL
ENDRIN	5.095	84982049	0.0400 CAL
44DDD	5.205	76716265	0.0400 CAL
ENDOII	5.346	90460854	0.0400 CAL
44DDT	5.552	84102628	0.0400 CAL
ENDRINALDEH	5.863	76910557	0.0400 CAL
METHOXYCL	6.268	41927430	0.0400 CAL
ENDOSULFATE	6.475	83129737	0.0400 CAL
ENDRINKETONE	6.926	96305102	0.0400 CAL
SURRDCBPEST	8.571	54465514	100.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 5 PP 3849
Acquired: Aug 22,2013 17:21:57
Printed: Aug 29,2013 08:58:11

Data Summary: {Data Description}



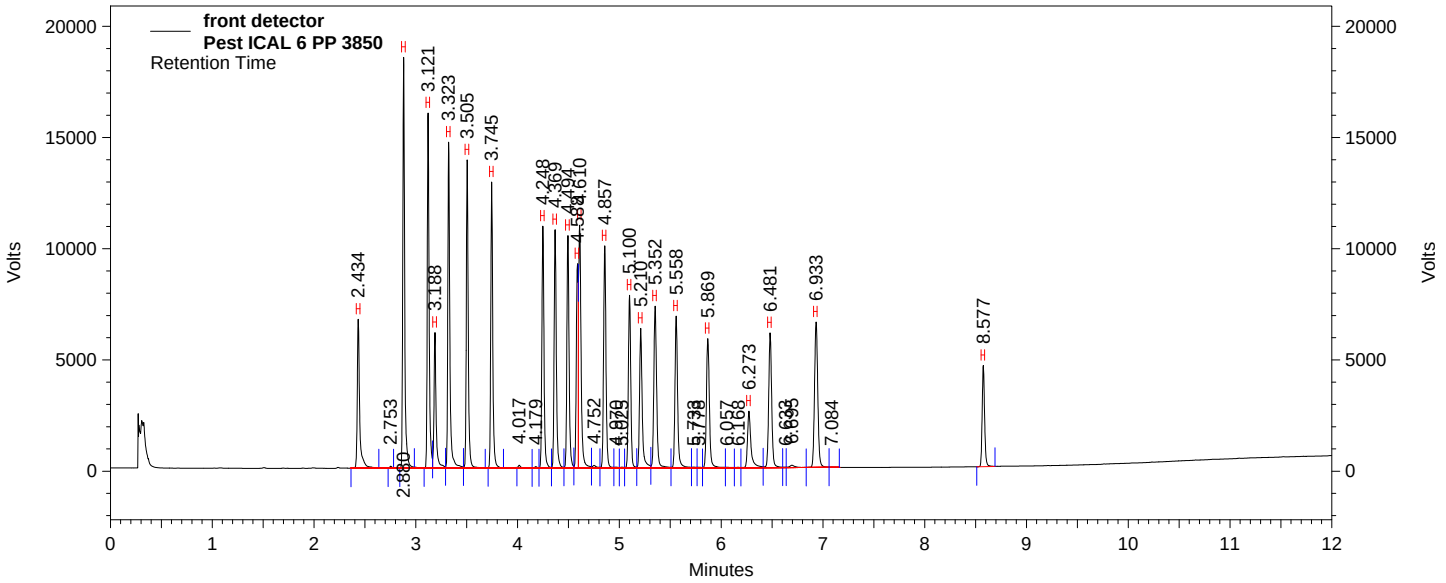
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	142636422	100.0000 CAL
ALPHABHC	2.800	314576194	0.0400 CAL
LINDANE	3.058	265631107	0.0400 CAL
BETABHC	3.130	114788409	0.0400 CAL
DELTABHC	3.341	272832228	0.0400 CAL
HEPTACHLOR	3.385	268427077	0.0400 CAL
ALDRIN	3.630	258511373	0.0400 CAL
HEPTAEPOX	4.106	227753026	0.0400 CAL
GAMMACHLOR	4.287	244226383	0.0400 CAL
ALPHACHLOR	4.425	232708819	0.0400 CAL
ENDOI	4.473	218687600	0.0400 CAL
44DDE	4.612	235553270	0.0400 CAL
DIELDRIN	4.756	238131550	0.0400 CAL
ENDRIN	5.093	188484593	0.0400 CAL
44DDD	5.277	188152575	0.0400 CAL
ENDOII	5.360	202506887	0.0400 CAL
44DDT	5.698	205099142	0.0400 CAL
ENDRINALDEH	5.816	175089863	0.0400 CAL
ENDOSULFATE	6.241	192640182	0.0400 CAL
METHOXYCL	6.841	96258058	0.0400 CAL
ENDRINKETONE	7.108	246319054	0.0400 CAL
SURRDCBPEST	8.957	108127623	100.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\009.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 6 PP 3850
Acquired: Aug 22,2013 17:38:41
Printed: Aug 29,2013 08:58:13

Data Summary: {Data Description}



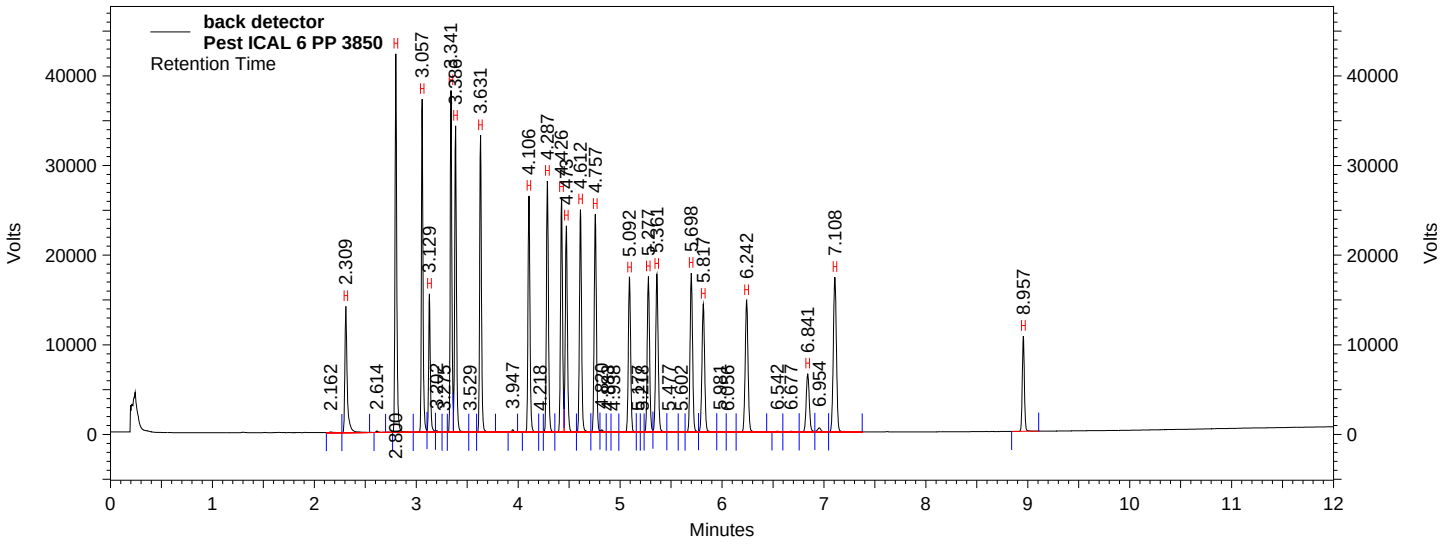
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	84160618	125.0000 CAL
ALPHABHC	2.880	181990916	0.0500 CAL
LINDANE	3.121	155429379	0.0500 CAL
BETABHC	3.188	67580638	0.0500 CAL
DELTABHC	3.323	156039256	0.0500 CAL
HEPTACHLOR	3.505	141233586	0.0500 CAL
ALDRIN	3.745	134270168	0.0500 CAL
HEPTAEPOX	4.248	120534365	0.0500 CAL
GAMMACHLOR	4.369	122534854	0.0500 CAL
ALPHACHLOR	4.494	119577389	0.0500 CAL
44DDE	4.588	87380964	0.0500 CAL
ENDOI	4.610	142176532	0.0500 CAL
DIELDRIN	4.857	124322497	0.0500 CAL
ENDRIN	5.100	94243584	0.0500 CAL
44DDD	5.210	87236757	0.0500 CAL
ENDOII	5.352	106324677	0.0500 CAL
44DDT	5.558	95437545	0.0500 CAL
ENDRINALDEH	5.869	90629883	0.0500 CAL
METHOXYCL	6.273	46077930	0.0500 CAL
ENDOSULFATE	6.481	95580191	0.0500 CAL
ENDRINKETONE	6.933	112177620	0.0500 CAL
SURRDCBPEST	8.577	58308891	125.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\009.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 6 PP 3850
Acquired: Aug 22,2013 17:38:41
Printed: Aug 29,2013 08:58:13

Data Summary: {Data Description}



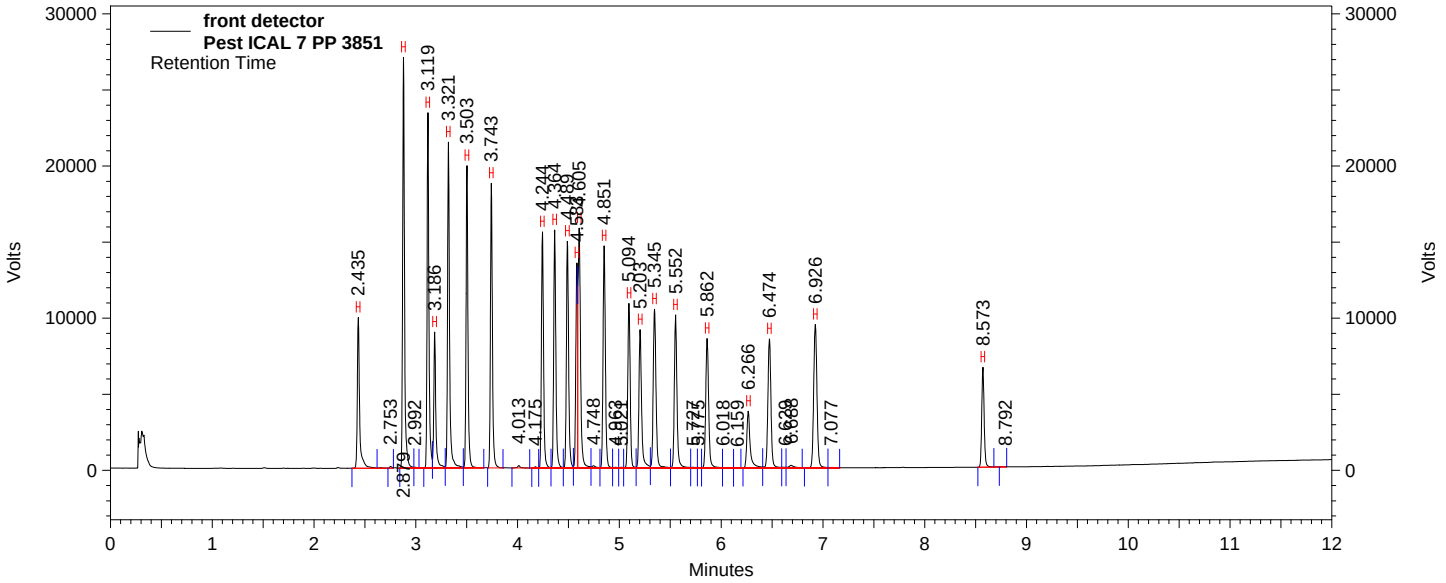
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	172658846	125.0000 CAL
ALPHABHC	2.800	383176986	0.0500 CAL
LINDANE	3.057	318537304	0.0500 CAL
BETABHC	3.129	138484355	0.0500 CAL
DELTABHC	3.341	327761151	0.0500 CAL
HEPTACHLOR	3.386	323452425	0.0500 CAL
ALDRIN	3.631	311825226	0.0500 CAL
HEPTAEPOX	4.106	272873051	0.0500 CAL
GAMMACHLOR	4.287	294572683	0.0500 CAL
ALPHACHLOR	4.426	279415509	0.0500 CAL
ENDOI	4.473	261288221	0.0500 CAL
44DDE	4.612	275679497	0.0500 CAL
DIELDRIN	4.757	284548958	0.0500 CAL
ENDRIN	5.092	208515932	0.0500 CAL
44DDD	5.277	214715572	0.0500 CAL
ENDOII	5.361	237551643	0.0500 CAL
44DDT	5.698	234973077	0.0500 CAL
ENDRINALDEH	5.817	205991170	0.0500 CAL
ENDOSULFATE	6.242	223075543	0.0500 CAL
METHOXYCL	6.841	105462259	0.0500 CAL
ENDRINKETONE	7.108	284085280	0.0500 CAL
SURRDCBPEST	8.957	115794610	125.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 7 PP 3851
Acquired: Aug 22,2013 17:55:25
Printed: Aug 29,2013 08:58:15

Data Summary: {Data Description}



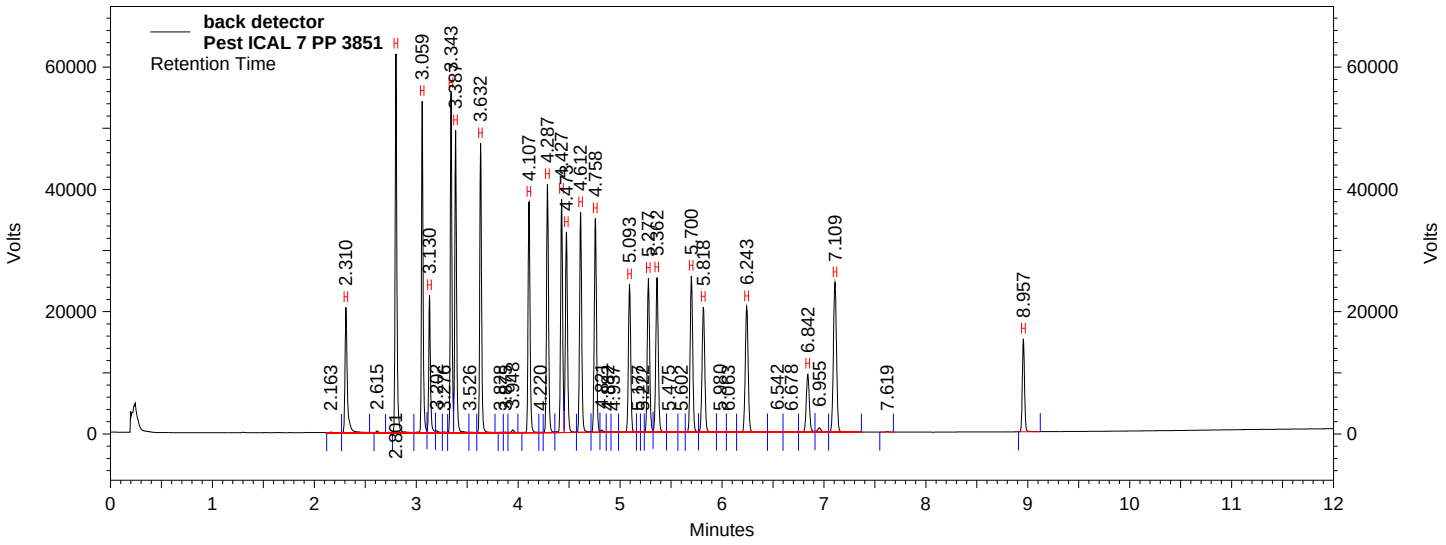
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.435	119263983	175.0000 CAL
ALPHABHC	2.879	260826797	0.0700 CAL
LINDANE	3.119	223545108	0.0700 CAL
BETABHC	3.186	95389255	0.0700 CAL
DELTABHC	3.321	224918435	0.0700 CAL
HEPTACHLOR	3.503	199180466	0.0700 CAL
ALDRIN	3.743	190787947	0.0700 CAL
HEPTAEPOX	4.244	171124213	0.0700 CAL
GAMMACHLOR	4.364	175306441	0.0700 CAL
ALPHACHLOR	4.489	170826223	0.0700 CAL
44DDE	4.583	126137944	0.0700 CAL
ENDOI	4.605	202529392	0.0700 CAL
DIELDRIN	4.851	177700821	0.0700 CAL
ENDRIN	5.094	132525801	0.0700 CAL
44DDD	5.203	126323997	0.0700 CAL
ENDOII	5.345	151865486	0.0700 CAL
44DDT	5.552	138720008	0.0700 CAL
ENDRINALDEH	5.862	130504557	0.0700 CAL
METHOXYCL	6.266	65562214	0.0700 CAL
ENDOSULFATE	6.474	136620595	0.0700 CAL
ENDRINKETONE	6.926	163177572	0.0700 CAL
SURRDCBPEST	8.573	84022106	175.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICAL 7 PP 3851
Acquired: Aug 22,2013 17:55:25
Printed: Aug 29,2013 08:58:15

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	246943487	175.0000 CAL
ALPHABHC	2.801	554465485	0.0700 CAL
LINDANE	3.059	463165146	0.0700 CAL
BETABHC	3.130	199319646	0.0700 CAL
DELTABHC	3.343	477111243	0.0700 CAL
HEPTACHLOR	3.387	462328991	0.0700 CAL
ALDRIN	3.632	446084368	0.0700 CAL
HEPTAEPOX	4.107	388300018	0.0700 CAL
GAMMACHLOR	4.287	425432020	0.0700 CAL
ALPHACHLOR	4.427	403624895	0.0700 CAL
ENDOI	4.473	371602756	0.0700 CAL
44DDE	4.612	400237863	0.0700 CAL
DIELDRIN	4.758	406874071	0.0700 CAL
ENDRIN	5.093	292999152	0.0700 CAL
44DDD	5.277	312218180	0.0700 CAL
ENDOII	5.362	339662858	0.0700 CAL
44DDT	5.700	343616407	0.0700 CAL
ENDRINALDEH	5.818	296937217	0.0700 CAL
ENDOSULFATE	6.243	319201193	0.0700 CAL
METHOXYCL	6.842	151937065	0.0700 CAL
ENDRINKETONE	7.109	405786012	0.0700 CAL
SURRDCBPEST	8.957	172847452	175.0000 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082213pstic.seq
User : JJY
Printed : Aug 29,2013 08:58:19

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082213pstic\011.dat	Pest ICV 1 PP 3852	Aug 29,2013 08:58:19

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	50.000	48.237	3.526	20.000	Passed
ALPHABHC	0.020	0.019	3.359	20.000	Passed
LINDANE	0.020	0.019	3.597	20.000	Passed
BETABHC	0.020	0.020	2.401	20.000	Passed
DELTABHC	0.020	0.019	4.007	20.000	Passed
HEPTACHLOR	0.020	0.020	2.422	20.000	Passed
ALDRIN	0.020	0.019	3.362	20.000	Passed
HEPTAEPOX	0.020	0.019	3.947	20.000	Passed
GAMMACHLOR	0.020	0.019	2.885	20.000	Passed
ALPHACHLOR	0.020	0.019	3.620	20.000	Passed
44DDE	0.020	0.019	4.071	20.000	Passed
ENDOI	0.020	0.020	2.183	20.000	Passed
DIELDRIN	0.020	0.019	3.363	20.000	Passed
ENDRIN	0.020	0.019	7.317	20.000	Passed
44DDD	0.020	0.020	1.606	20.000	Passed
ENDOII	0.020	0.019	3.716	20.000	Passed
44DDT	0.020	0.019	3.884	20.000	Passed
ENDRINALDEH	0.020	0.020	0.169	20.000	Passed
METHOXYCL	0.020	0.020	1.851	20.000	Passed
ENDOSULFATE	0.020	0.019	2.938	20.000	Passed
ENDRINKETONE	0.020	0.019	2.733	20.000	Passed
SURRDCBPEST	50.000	49.286	1.429	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	50.000	49.461	1.079	20.000	Passed
ALPHABHC	0.020	0.019	2.680	20.000	Passed
LINDANE	0.020	0.019	5.780	20.000	Passed
BETABHC	0.020	0.020	1.580	20.000	Passed
DELTABHC	0.020	0.019	2.566	20.000	Passed
HEPTACHLOR	0.020	0.020	1.452	20.000	Passed
ALDRIN	0.020	0.019	2.718	20.000	Passed
HEPTAEPOX	0.020	0.019	3.352	20.000	Passed
GAMMACHLOR	0.020	0.020	2.245	20.000	Passed
ALPHACHLOR	0.020	0.019	2.834	20.000	Passed
ENDOI	0.020	0.019	3.307	20.000	Passed
44DDE	0.020	0.020	2.371	20.000	Passed
DIELDRIN	0.020	0.019	2.610	20.000	Passed
ENDRIN	0.020	0.019	6.369	20.000	Passed
44DDD	0.020	0.020	1.557	20.000	Passed
ENDOII	0.020	0.019	2.607	20.000	Passed
44DDT	0.020	0.019	3.517	20.000	Passed
ENDRINALDEH	0.020	0.020	0.034	20.000	Passed
ENDOSULFATE	0.020	0.019	2.930	20.000	Passed

QC Check Standard Report

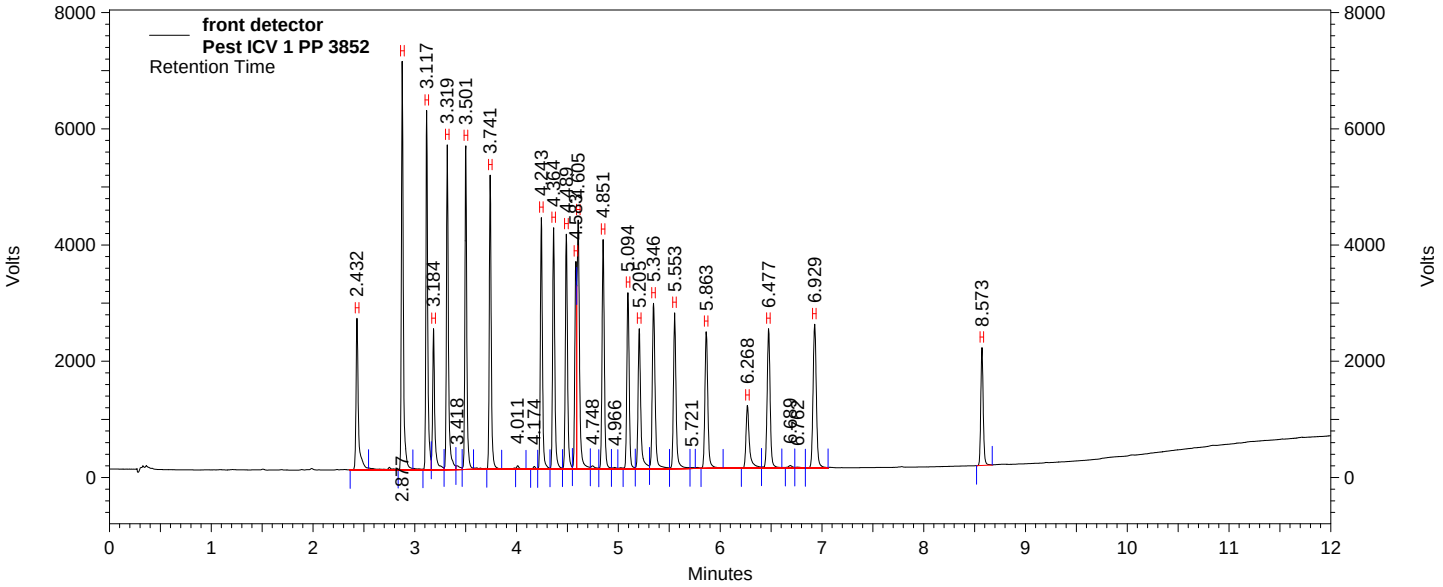
Sequence : C:\Instarch\Semi1\Sequence\082213pstic.seq
User : JJY
Printed : Aug 29,2013 08:58:19

METHOXYCL	0.020	0.020	1.466	20.000	**Passed**
ENDRINKETONE	0.020	0.020	0.761	20.000	**Passed**
SURRDCBPEST	50.000	49.751	0.498	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\011.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICV 1 PP 3852
Acquired: Aug 22,2013 18:12:07
Printed: Aug 29,2013 08:58:17

Data Summary: {Data Description}



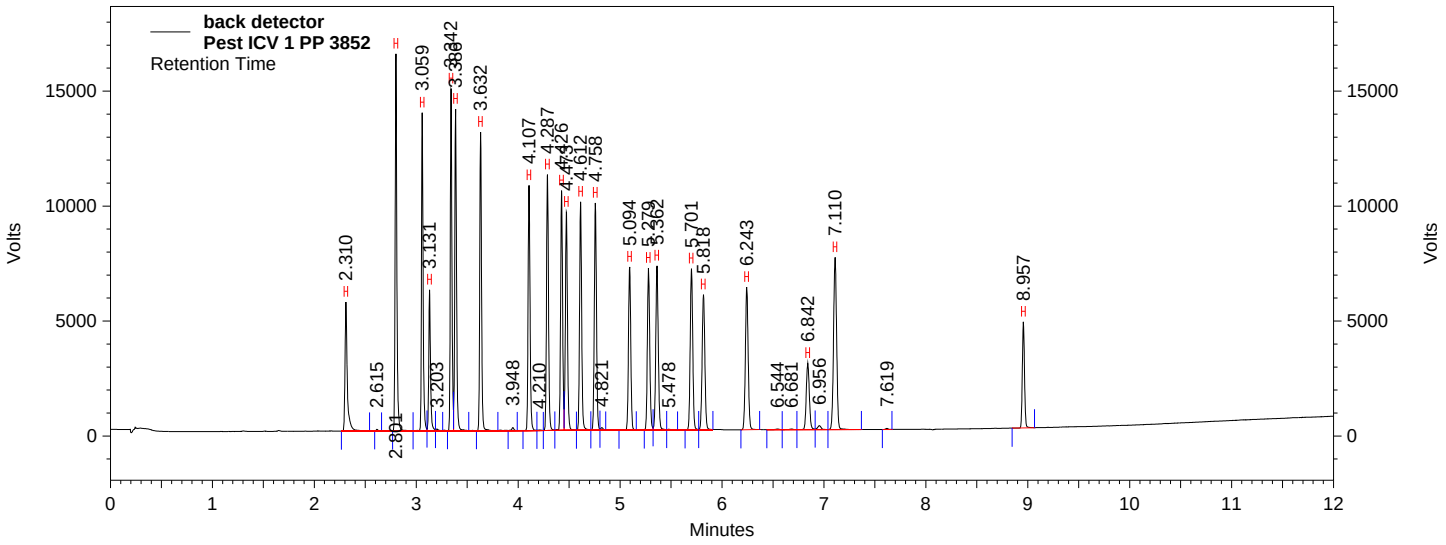
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.432	32831733	48.2370
ALPHABHC	2.877	68729740	0.0193
LINDANE	3.117	59216640	0.0193
BETABHC	3.184	27150380	0.0195
DELTABHC	3.319	58569330	0.0192
HEPTACHLOR	3.501	55021403	0.0195
ALDRIN	3.741	51145385	0.0193
HEPTAEPOX	4.243	46517792	0.0192
GAMMACHLOR	4.364	47022496	0.0194
ALPHACHLOR	4.489	45917871	0.0193
44DDE	4.583	33708703	0.0192
ENDOI	4.605	54839115	0.0196
DIELDRIN	4.851	47210568	0.0193
ENDRIN	5.094	36906062	0.0185
44DDD	5.205	34187553	0.0197
ENDOII	5.346	41930703	0.0193
44DDT	5.553	36867268	0.0192
ENDRINALDEH	5.863	36496020	0.0200
METHOXYCL	6.268	19691885	0.0196
ENDOSULFATE	6.477	38382508	0.0194
ENDRINKETONE	6.929	43212808	0.0195
SURRDCBPEST	8.573	26129325	49.2857

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\011.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICV 1 PP 3852
Acquired: Aug 22,2013 18:12:07
Printed: Aug 29,2013 08:58:17

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	68286119	49.4606
ALPHABHC	2.801	145986940	0.0195
LINDANE	3.059	120036449	0.0188
BETABHC	3.131	55395616	0.0197
DELTABHC	3.342	125942848	0.0195
HEPTACHLOR	3.386	130267481	0.0197
ALDRIN	3.632	121778897	0.0195
HEPTAEPOX	4.107	108786864	0.0193
GAMMACHLOR	4.287	114940825	0.0196
ALPHACHLOR	4.426	109276710	0.0194
ENDOI	4.473	104172097	0.0193
44DDE	4.612	109182920	0.0195
DIELDRIN	4.758	112497967	0.0195
ENDRIN	5.094	85312261	0.0187
44DDD	5.279	87037471	0.0197
ENDOII	5.362	96405401	0.0195
44DDT	5.701	93155544	0.0193
ENDRINALDEH	5.818	85333482	0.0200
ENDOSULFATE	6.243	91247657	0.0194
METHOXYCL	6.842	46343326	0.0197
ENDRINKETONE	7.110	120837496	0.0198
SURRDCBPEST	8.957	51862787	49.7510

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082213pstic.seq
User : JJY
Printed : Aug 29,2013 08:58:24

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082213pstic\012.dat	Pest ICV 2 PP 3853	Aug 29,2013 08:58:23

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	101.930	1.930	20.000	Passed
ALPHABHC	0.040	0.041	1.384	20.000	Passed
LINDANE	0.040	0.041	1.287	20.000	Passed
BETABHC	0.040	0.041	1.406	20.000	Passed
DELTABHC	0.040	0.040	1.015	20.000	Passed
HEPTACHLOR	0.040	0.041	2.146	20.000	Passed
ALDRIN	0.040	0.040	0.848	20.000	Passed
HEPTAEPOX	0.040	0.040	0.564	20.000	Passed
GAMMACHLOR	0.040	0.040	0.731	20.000	Passed
ALPHACHLOR	0.040	0.040	0.086	20.000	Passed
44DDE	0.040	0.042	5.201	20.000	Passed
ENDOI	0.040	0.039	1.451	20.000	Passed
DIELDRIN	0.040	0.040	0.501	20.000	Passed
ENDRIN	0.040	0.041	3.448	20.000	Passed
44DDD	0.040	0.042	4.429	20.000	Passed
ENDOII	0.040	0.040	0.381	20.000	Passed
44DDT	0.040	0.041	1.576	20.000	Passed
ENDRINALDEH	0.040	0.040	0.378	20.000	Passed
METHOXYCL	0.040	0.041	3.383	20.000	Passed
ENDOSULFATE	0.040	0.041	1.818	20.000	Passed
ENDRINKETONE	0.040	0.041	1.841	20.000	Passed
SURRDCBPEST	100.000	105.228	5.228	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	102.333	2.333	20.000	Passed
ALPHABHC	0.040	0.040	1.250	20.000	Passed
LINDANE	0.040	0.040	0.369	20.000	Passed
BETABHC	0.040	0.041	2.059	20.000	Passed
DELTABHC	0.040	0.041	1.616	20.000	Passed
HEPTACHLOR	0.040	0.041	2.352	20.000	Passed
ALDRIN	0.040	0.041	1.346	20.000	Passed
HEPTAEPOX	0.040	0.040	0.406	20.000	Passed
GAMMACHLOR	0.040	0.041	1.583	20.000	Passed
ALPHACHLOR	0.040	0.040	0.803	20.000	Passed
ENDOI	0.040	0.040	0.534	20.000	Passed
44DDE	0.040	0.041	2.491	20.000	Passed
DIELDRIN	0.040	0.041	1.365	20.000	Passed
ENDRIN	0.040	0.042	4.605	20.000	Passed
44DDD	0.040	0.042	4.173	20.000	Passed
ENDOII	0.040	0.041	1.612	20.000	Passed
44DDT	0.040	0.041	2.806	20.000	Passed
ENDRINALDEH	0.040	0.041	2.638	20.000	Passed
ENDOSULFATE	0.040	0.041	2.598	20.000	Passed

QC Check Standard Report

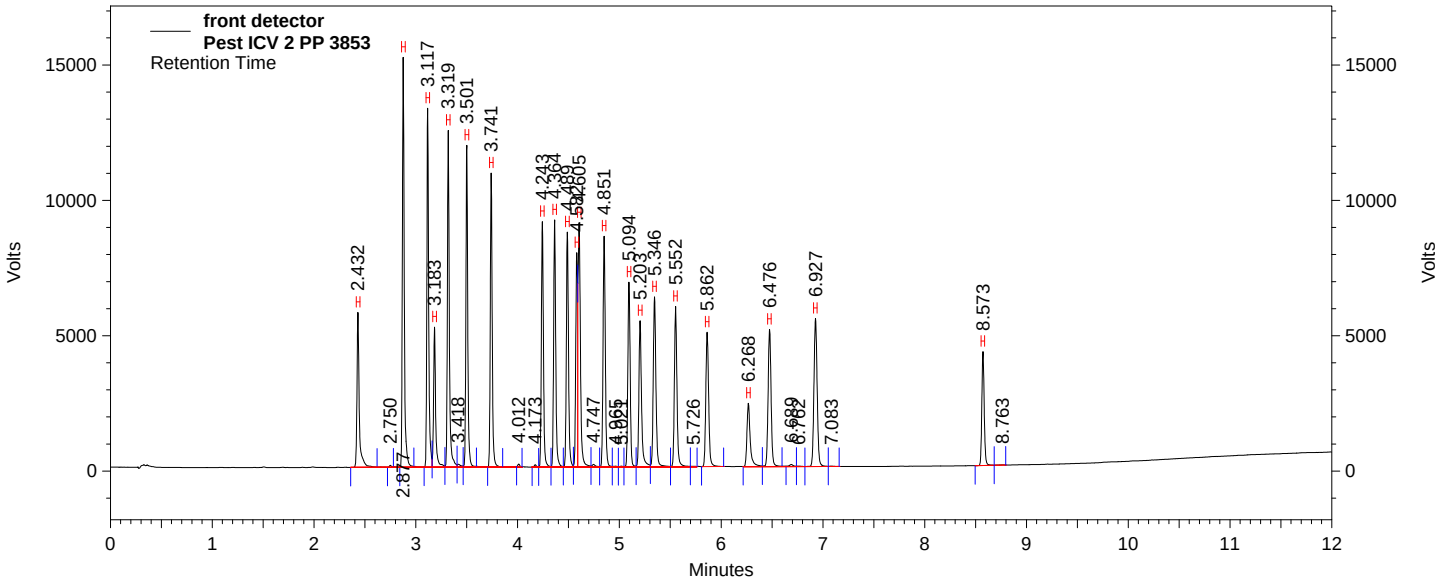
Sequence : C:\Instarch\Semi1\Sequence\082213pstic.seq
User : JJY
Printed : Aug 29,2013 08:58:24

METHOXYCL	0.040	0.042	5.745	20.000	**Passed**
ENDRINKETONE	0.040	0.041	1.883	20.000	**Passed**
SURRDCBPEST	100.000	108.261	8.261	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\012.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICV 2 PP 3853
Acquired: Aug 22,2013 18:28:56
Printed: Aug 29,2013 08:58:22

Data Summary: {Data Description}



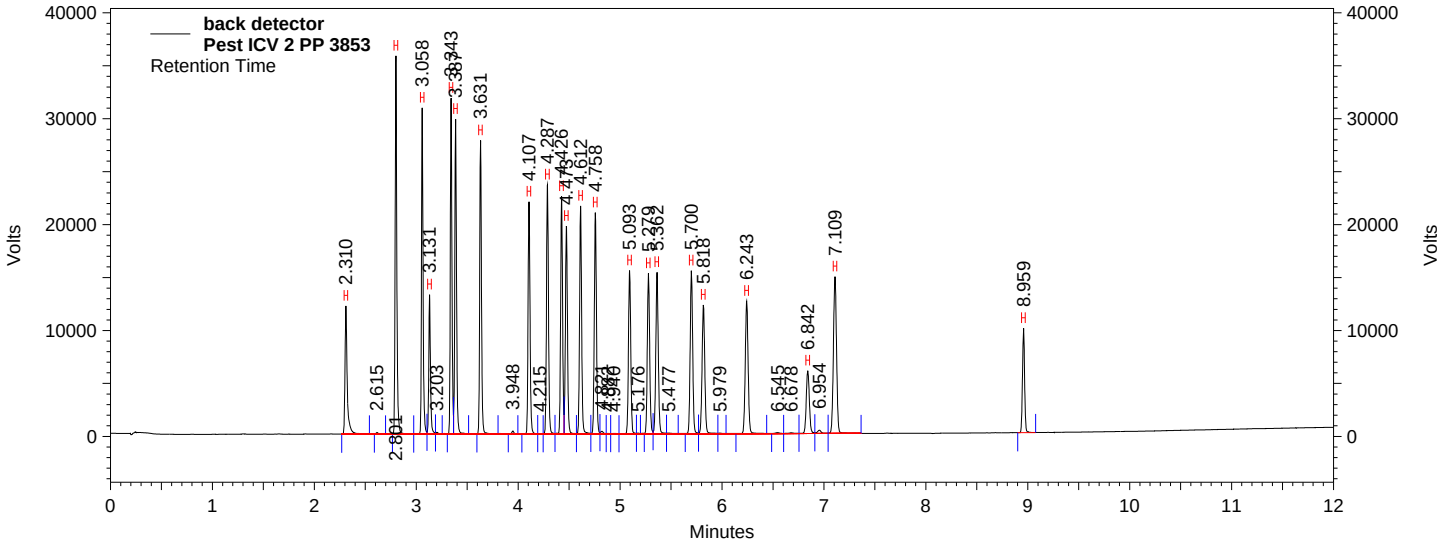
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.432	69333674	101.9305
ALPHABHC	2.877	147565871	0.0406
LINDANE	3.117	126742832	0.0405
BETABHC	3.183	55746844	0.0406
DELTABHC	3.319	126480836	0.0404
HEPTACHLOR	3.501	115953471	0.0409
ALDRIN	3.741	108426132	0.0403
HEPTAEPOX	4.243	96783355	0.0398
GAMMACHLOR	4.364	99163927	0.0403
ALPHACHLOR	4.489	96307755	0.0400
44DDE	4.582	75575572	0.0421
ENDOI	4.605	111770847	0.0394
DIELDRIN	4.851	100160127	0.0402
ENDRIN	5.094	80994554	0.0414
44DDD	5.203	74174044	0.0418
ENDOII	5.346	86721048	0.0398
44DDT	5.552	79344772	0.0406
ENDRINALDEH	5.862	73980830	0.0402
METHOXYCL	6.268	40271156	0.0414
ENDOSULFATE	6.476	80168569	0.0407
ENDRINKETONE	6.927	92531211	0.0407
SURRDCBPEST	8.573	53105683	105.2277

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\012.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Pest ICV 2 PP 3853
Acquired: Aug 22,2013 18:28:56
Printed: Aug 29,2013 08:58:22

Data Summary: {Data Description}



back detector Results

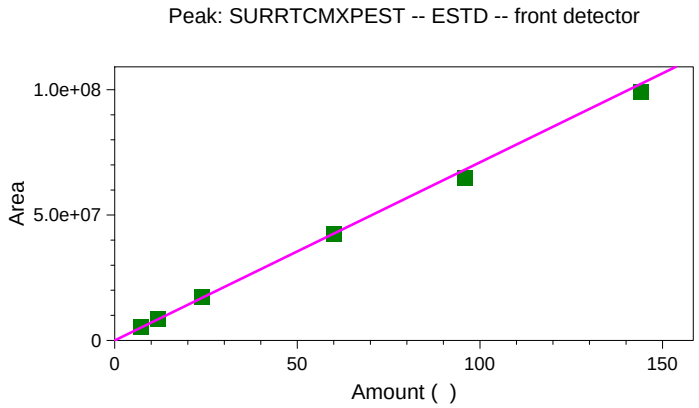
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	142617648	102.3329
ALPHABHC	2.801	311548763	0.0405
LINDANE	3.058	259961603	0.0401
BETABHC	3.131	115060492	0.0408
DELTABHC	3.343	269158432	0.0406
HEPTACHLOR	3.387	270142010	0.0409
ALDRIN	3.631	256018865	0.0405
HEPTAEPOX	4.107	224417089	0.0402
GAMMACHLOR	4.287	242328879	0.0406
ALPHACHLOR	4.426	229022508	0.0403
ENDOI	4.473	215166276	0.0402
44DDE	4.612	231689245	0.0410
DIELDRIN	4.758	235047870	0.0405
ENDRIN	5.093	184008958	0.0418
44DDD	5.279	185168384	0.0417
ENDOII	5.362	199292441	0.0406
44DDT	5.700	200027533	0.0411
ENDRINALDEH	5.818	174280706	0.0411
ENDOSULFATE	6.243	190059846	0.0410
METHOXYCL	6.842	95517240	0.0423
ENDRINKETONE	7.109	242561745	0.0408
SURRDCBPEST	8.959	108927407	108.2611

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:11
User: JJY
Instrument: Semi 1

SURRTCMXPEST (front detector)
Average RF: 710428. RF StDev: 25596.4 RF %RSD: 3.60296
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 710428.



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	5378550	8670428	17306459	42431898	64862664
RF	747020.8333 33333	722535.666666 667	721102.4583333 33	707198.3	675652.75
Last Area Residual	-0.370854	-0.204506	-0.360594	0.272806	4.69923
Rep StDev					
Rep %RSD					
Rep 1 Area	5378550	8670428	17306459	42431898	64862664
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	144	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:11
User: JJY
Instrument: Semi 1

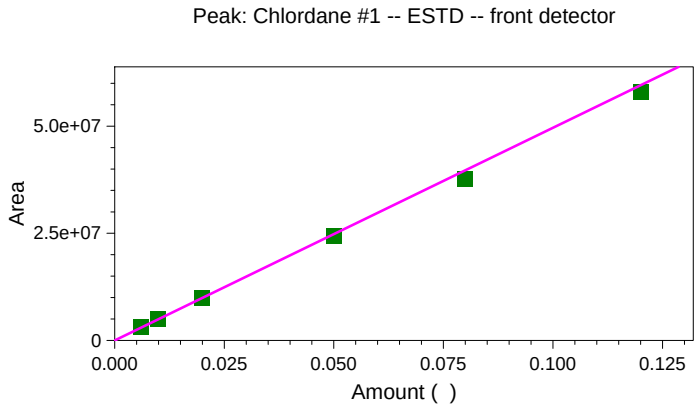
Area	99224739		
RF	689060.6875		
Last Area			
Residual	4.33113	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	99224739		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:14
User: JJY
Instrument: Semi 1

Chlordane #1 (front detector)
Average RF: 4.96335e+008 RF StDev: 2.08634e+007 RF %RSD: 4.20349
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.96335e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	3192265	5049260	9934661	24453316	37723171
RF	532044166.666667	504926000	496733050	489066320	471539637.5
Last Area Residual	-0.000431677	-0.000173093	-1.60478e-005	0.000732215	0.00399652
Rep StDev					
Rep %RSD					
Rep 1 Area	3192265	5049260	9934661	24453316	37723171
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:14
User: JJY
Instrument: Semi 1

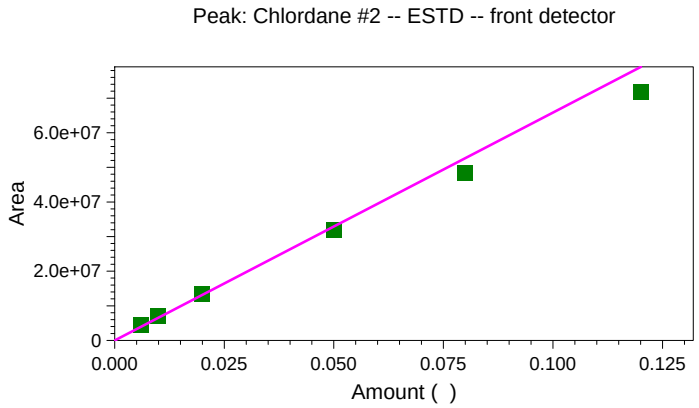
Area	58043952		
RF	483699600		
Last Area Residual	0.00305484	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	58043952		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:15
User: JJY
Instrument: Semi 1

Chlordane #2 (front detector)
Average RF: 6.58351e+008 RF StDev: 5.51754e+007 RF %RSD: 8.38085
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.58351e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	4442192	6987764	13376252	31887169	48442912
RF	740365333.333333	698776400	668812600	637743380	605536400
Last Area Residual	-0.00074745	-0.000614036	-0.000317804	0.00156511	0.00641783
Rep StDev					
Rep %RSD					
Rep 1 Area	4442192	6987764	13376252	31887169	48442912
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:15
User: JJY
Instrument: Semi 1

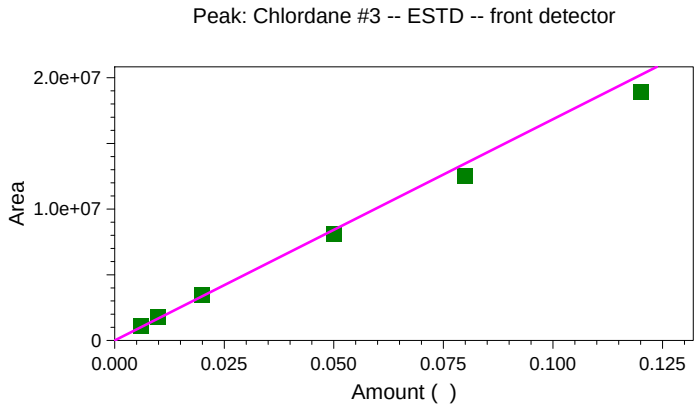
Area	71864818		
RF	598873483.333333		
Last Area			
Residual	0.0108412	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	71864818		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:16
User: JJY
Instrument: Semi 1

Chlordane #3 (front detector)
Average RF: 1.68459e+008 RF StDev: 1.16751e+007 RF %RSD: 6.93054
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.68459e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1113875	1771048	3437399	8087296	12523625
RF	185645833.3 33333	177104800	171869950	161745920	156545312.5
Last Area Residual	-0.000612158	-0.000513253	-0.000405006	0.00199239	0.00565756
Rep StDev					
Rep %RSD					
Rep 1 Area	1113875	1771048	3437399	8087296	12523625
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:16
User: JJY
Instrument: Semi 1

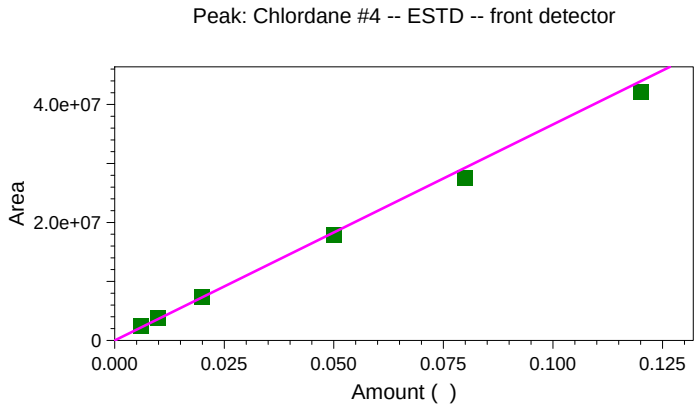
Area	18940785		
RF	157839875		
Last Area			
Residual	0.00756417	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	18940785		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:18
User: JJY
Instrument: Semi 1

Chlordane #4 (front detector)
Average RF: 3.66222e+008 RF StDev: 1.93728e+007 RF %RSD: 5.28990
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.66222e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2374093	3814671	7326948	17923542	27512055
RF	395682166.666667	381467100	366347400	358470840	343900687.5
Last Area Residual	-0.000482667	-0.000416291	-6.86862e-006	0.00105821	0.00487594
Rep StDev					
Rep %RSD					
Rep 1 Area	2374093	3814671	7326948	17923542	27512055
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:18
User: JJY
Instrument: Semi 1

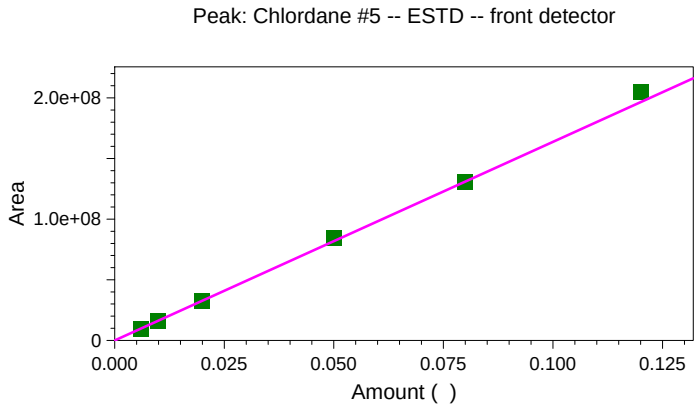
Area	42175389		
RF	351461575		
Last Area			
Residual	0.00483643	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	42175389		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:19
User: JJY
Instrument: Semi 1

Chlordane #5 (front detector)
Average RF: 1.63775e+009 RF StDev: 4.98374e+007 RF %RSD: 3.04304
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.63775e+009



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	9560707	15847289	32352357	84183229	131013544
RF	1593451166.66667	1584728900	1617617850	1683664580	1637669300
Last Area Residual	0.000162302	0.000323761	0.000245888	-0.00140166	4.08884e-006
Rep StDev					
Rep %RSD					
Rep 1 Area	9560707	15847289	32352357	84183229	131013544
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:19
User: JJY
Instrument: Semi 1

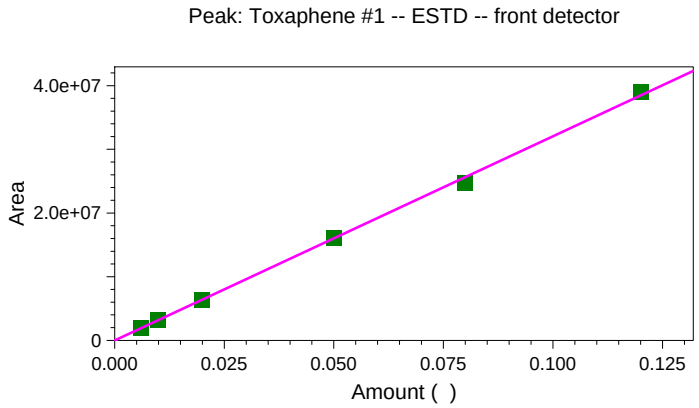
Area	205126349		
RF	1709386241.66667		
Last Area			
Residual	-0.00524865	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	205126349		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:20
User: JJY
Instrument: Semi 1

Toxaphene #1 (front detector)
Average RF: 3.20374e+008 RF StDev: 6.90550e+006 RF %RSD: 2.15545
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.20374e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1965935	3225991	6319280	16089203	24705475
RF	327655833.3 33333	322599100	315964000	321784060	308818437.5
Last Area Residual	-0.000136376	-6.94543e-005	0.000275301	-0.00022007	0.00288551
Rep StDev					
Rep %RSD					
Rep 1 Area	1965935	3225991	6319280	16089203	24705475
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:20
User: JJY
Instrument: Semi 1

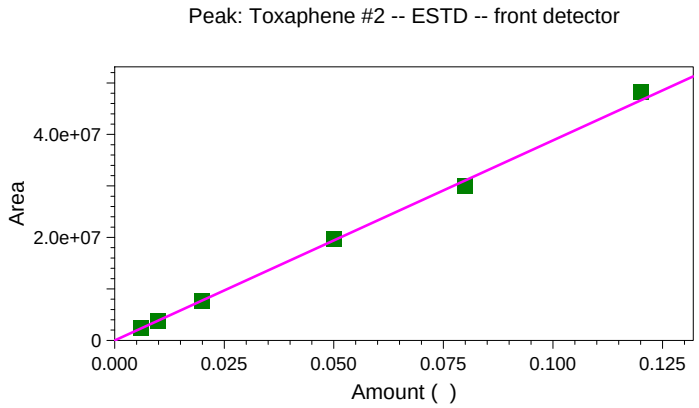
Area	39050683		
RF	325422358.333333		
Last Area			
Residual	-0.00189094	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	39050683		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:21
User: JJY
Instrument: Semi 1

Toxaphene #2 (front detector)
Average RF: 3.88258e+008 RF StDev: 9.76368e+006 RF %RSD: 2.51474
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.88258e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2347253	3813639	7763492	19611055	29925140
RF	391208833.333333	381363900	388174600	392221100	374064250
Last Area Residual	-4.56043e-005	0.00017756	4.28545e-006	-0.000510396	0.00292456
Rep StDev					
Rep %RSD					
Rep 1 Area	2347253	3813639	7763492	19611055	29925140
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:21
User: JJY
Instrument: Semi 1

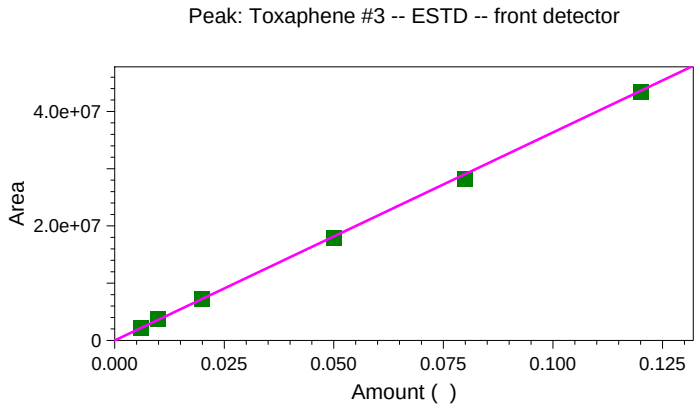
Amount	0.12	0	0
Area	48301689		
RF	402514075		
Last Area			
Residual	-0.00440623	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	48301689		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:22
User: JJY
Instrument: Semi 1

Toxaphene #3 (front detector)
Average RF: 3.63458e+008 RF StDev: 9.26735e+006 RF %RSD: 2.54977
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.63458e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2206935	3796428	7177491	17954240	28250321
RF	367822500	379642800	358874550	359084800	353129012.5
Last Area Residual	-7.20545e-005	-0.000445309	0.000252197	0.00060157	0.00227343
Rep StDev					
Rep %RSD					
Rep 1 Area	2206935	3796428	7177491	17954240	28250321
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:22
User: JJY
Instrument: Semi 1

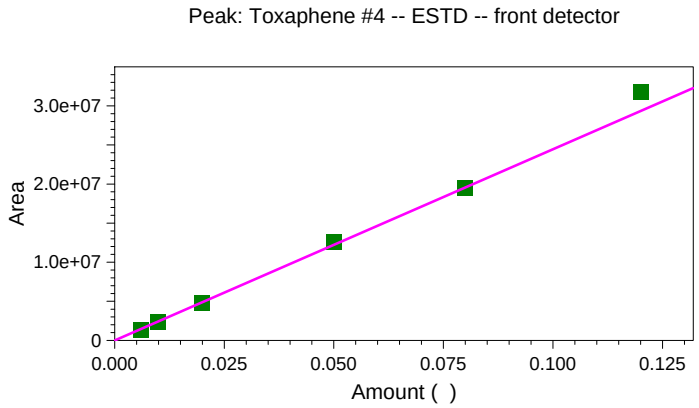
Area	43463108		
RF	362192566.666667		
Last Area			
Residual	0.000417701	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	43463108		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:23
User: JJY
Instrument: Semi 1

Toxaphene #4 (front detector)
Average RF: 2.44475e+008 RF StDev: 1.25485e+007 RF %RSD: 5.13283
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.44475e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1390553	2328272	4840451	12596300	19454524
RF	231758833.333333	232827200	242022550	251926000	243181550
Last Area Residual	0.000312081	0.000476435	0.000200616	-0.00152391	0.000423201
Rep StDev					
Rep %RSD					
Rep 1 Area	1390553	2328272	4840451	12596300	19454524
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:23
User: JJY
Instrument: Semi 1

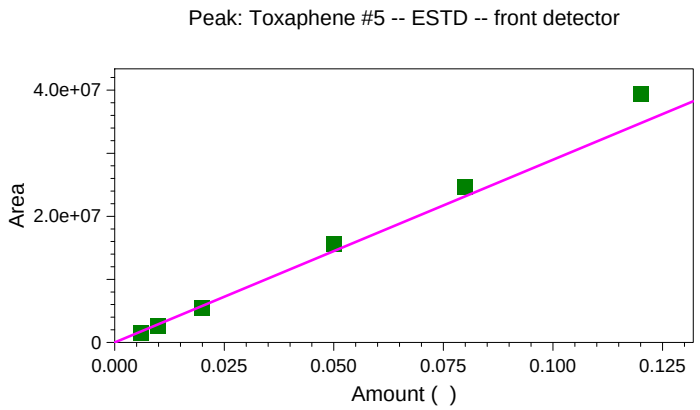
Area	31815938		
RF	265132816.666667		
Last Area			
Residual	-0.0101399	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	31815938		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:25
User: JJY
Instrument: Semi 1

Toxaphene #5 (front detector)
Average RF: 2.89618e+008 RF StDev: 3.13882e+007 RF %RSD: 10.8378
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.89618e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1495439	2659977	5444193	15658232	24671321
RF	249239833.3 33333	265997700	272209650	313164640	308391512.5
Last Area Residual	0.000836515	0.000815572	0.00120217	-0.00406509	-0.00518568
Rep StDev					
Rep %RSD					
Rep 1 Area	1495439	2659977	5444193	15658232	24671321
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:25
User: JJY
Instrument: Semi 1

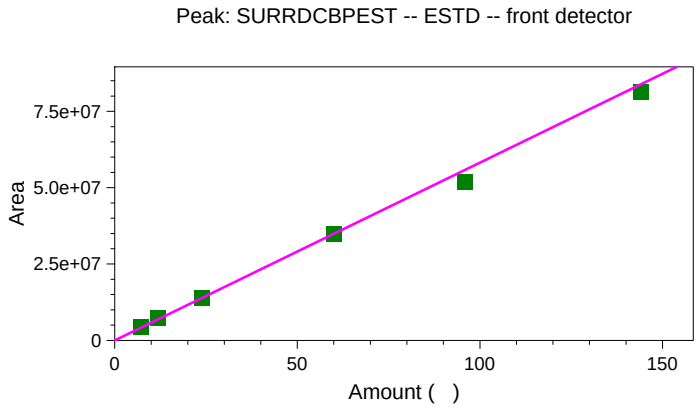
Area	39444673		
RF	328705608.333333		
Last Area			
Residual	-0.0161954	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	39444673		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:26
User: JJY
Instrument: Semi 1

SURRDCBPEST (front detector)
Average RF: 582071. RF StDev: 26749.0 RF %RSD: 4.59549
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 582071.



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	4435834	7239072	14028866	34924205	51929480
RF	616088.05555	603256	584536.08333333	582070.08333333	540932.08333
Last Area					
Residual	-0.420775	-0.436746	-0.101631	0.000119306	6.78501
Rep StDev					
Rep %RSD					
Rep 1 Area	4435834	7239072	14028866	34924205	51929480
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 7	Level 9	Level 10
Amount	144	0	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:26
User: JJY
Instrument: Semi 1

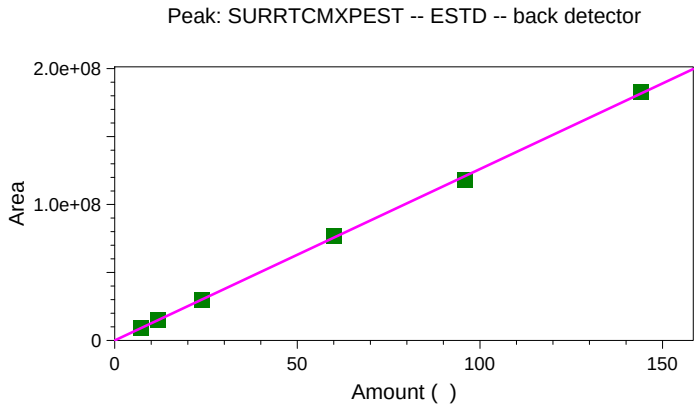
Area	81438500			
RF	565545.138888889			
Last Area				
Residual	4.08843	N/A	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	81438500			
Rep 1 User	JJY			
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat			
Rep 1 Sample ID	TC ICAL 6 PP 3843			
Rep 1 Calib. Time	Aug 23,2013 09:55:35			

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:30
User: JJY
Instrument: Semi 1

SURRTCMXPEST (back detector)
Average RF: 1.26041e+006 RF StDev: 18475.0 RF %RSD: 1.46580
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.26041e+006



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	9137757	15114800	29892353	77038943	118388543
RF	1269132.916 66667	1259566.66666 667	1245514.708333 33	1283982.383333 33	1233213.9895 8333
Last Area Residual	-0.0498526	0.00799009	0.28355	-1.12233	2.0711
Rep StDev					
Rep %RSD					
Rep 1 Area	9137757	15114800	29892353	77038943	118388543
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	144	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:30
User: JJY
Instrument: Semi 1

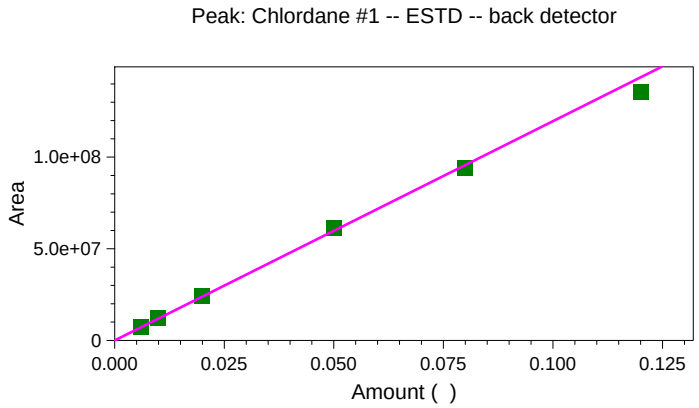
Area	183027559		
RF	1271024.71527778		
Last Area			
Residual	-1.21319	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	183027559		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:32
User: JJY
Instrument: Semi 1

Chlordane #1 (back detector)
Average RF: 1.19667e+009 RF StDev: 3.70020e+007 RF %RSD: 3.09208
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.19667e+009



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	7353839	12035754	24400600	61172744	94077491
RF	1225639833.33333	1203575400	1220030000	1223454880	1175968637.5
Last Area Residual	-0.000145256	-5.77115e-005	-0.00039043	-0.00111917	0.00138388
Rep StDev					
Rep %RSD					
Rep 1 Area	7353839	12035754	24400600	61172744	94077491
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:32
User: JJY
Instrument: Semi 1

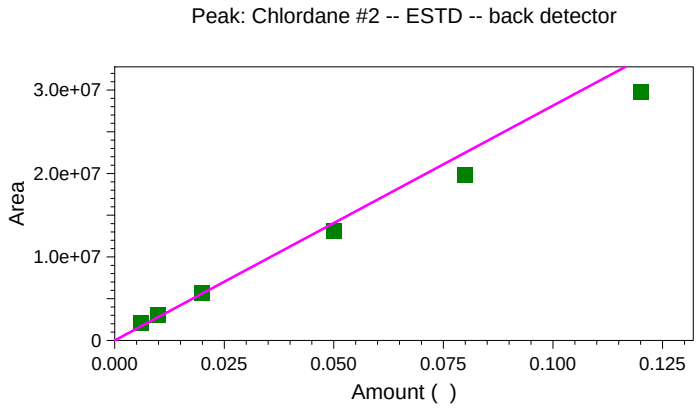
Area	135761606		
RF	1131346716.66667		
Last Area Residual	0.00655043	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	135761606		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:33
User: JJY
Instrument: Semi 1

Chlordane #2 (back detector)
Average RF: 2.81286e+008 RF StDev: 3.73772e+007 RF %RSD: 13.2880
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.81286e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2060275	3040986	5647889	13115663	19774399
RF	343379166.666667	304098600	282394450	262313260	247179987.5
Last Area Residual	-0.00132449	-0.000811025	-7.88392e-005	0.00337244	0.00969993
Rep StDev					
Rep %RSD					
Rep 1 Area	2060275	3040986	5647889	13115663	19774399
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:33
User: JJY
Instrument: Semi 1

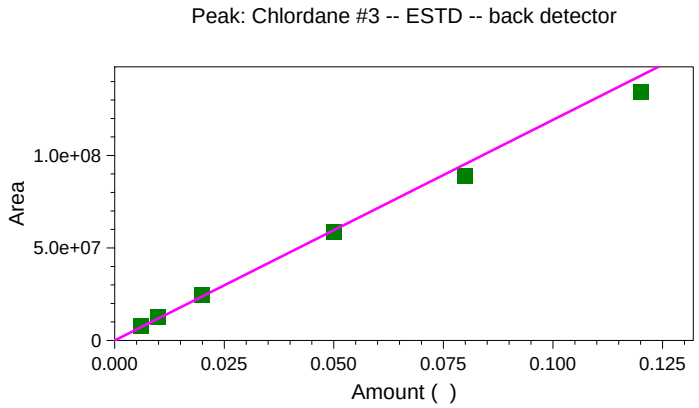
Area	29801800		
RF	248348333.333333		
Last Area			
Residual	0.0140515	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	29801800		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:34
User: JJY
Instrument: Semi 1

Chlordane #3 (back detector)
Average RF: 1.19284e+009 RF StDev: 6.86791e+007 RF %RSD: 5.75761
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.19284e+009



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	7725318	12416500	24347491	58753456	89162016
RF	1287553000	1241650000	1217374550	1175069120	1114525200
Last Area Residual	-0.000476409	-0.000409193	-0.000411367	0.000744889	0.00525231
Rep StDev					
Rep %RSD					
Rep 1 Area	7725318	12416500	24347491	58753456	89162016
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0
Area	134504014		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:34
User: JJY
Instrument: Semi 1

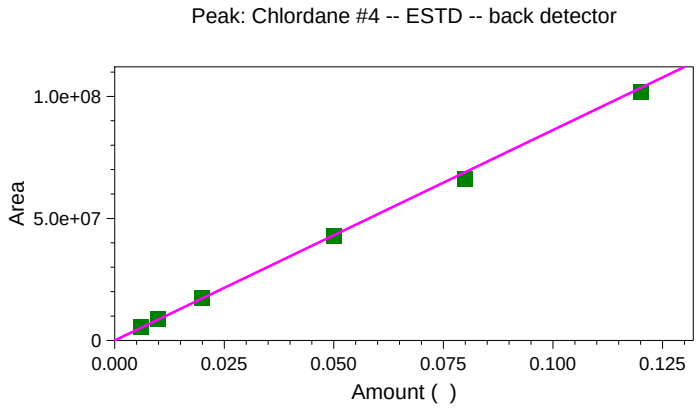
RF	1120866783.33333		
Last Area Residual	0.0072405	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	134504014		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:35
User: JJY
Instrument: Semi 1

Chlordane #4 (back detector)
Average RF: 8.62293e+008 RF StDev: 2.39922e+007 RF %RSD: 2.78238
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.62293e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	5402033	8685278	17426005	42736351	66338471
RF	900338833.3 33333	868527800	871300250	854727020	829230887.5
Last Area Residual	-0.000264732	-7.23074e-005	-0.000208919	0.0004387	0.00306735
Rep StDev					
Rep %RSD					
Rep 1 Area	5402033	8685278	17426005	42736351	66338471
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:35
User: JJY
Instrument: Semi 1

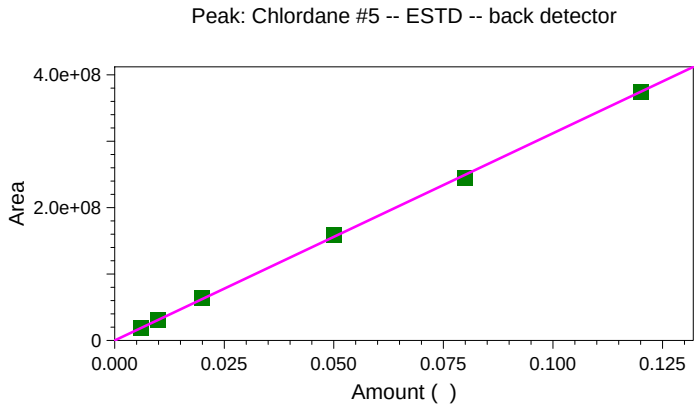
Area	101955830		
RF	849631916.666667		
Last Area			
Residual	0.00176194	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	101955830		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:37
User: JJY
Instrument: Semi 1

Chlordane #5 (back detector)
Average RF: 3.11904e+009 RF StDev: 4.93898e+007 RF %RSD: 1.58349
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.11904e+009



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	18751085	30594365	63217972	159096614	245220522
RF	3125180833.33333	3059436500	3160898600	3181932280	3065256525
Last Area Residual	-1.18135e-005	0.000191095	-0.000268409	-0.0010082	0.00137948
Rep StDev					
Rep %RSD					
Rep 1 Area	18751085	30594365	63217972	159096614	245220522
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:37
User: JJY
Instrument: Semi 1

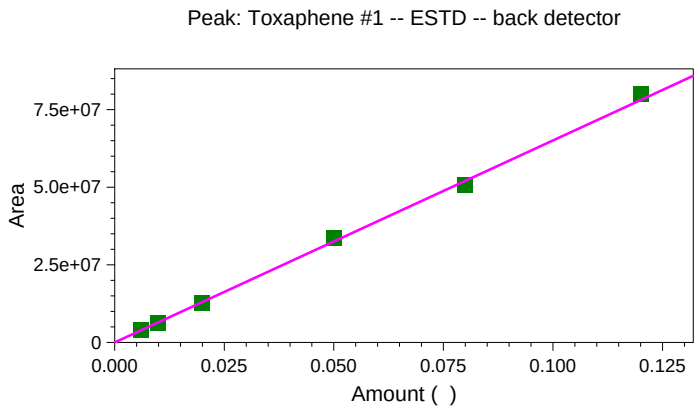
Amount	0.12	0	0
Area	374584005		
RF	3121533375		
Last Area			
Residual	-9.59407e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	374584005		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:38
User: JJY
Instrument: Semi 1

Toxaphene #1 (back detector)
Average RF: 6.50354e+008 RF StDev: 1.68264e+007 RF %RSD: 2.58727
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.50354e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	3945975	6392295	12669155	33497914	50724482
RF	657662500	639229500	633457750	669958280	634056025
Last Area Residual	-6.74232e-005	0.000171058	0.000519612	-0.00150717	0.00200485
Rep StDev					
Rep %RSD					
Rep 1 Area	3945975	6392295	12669155	33497914	50724482
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:38
User: JJY
Instrument: Semi 1

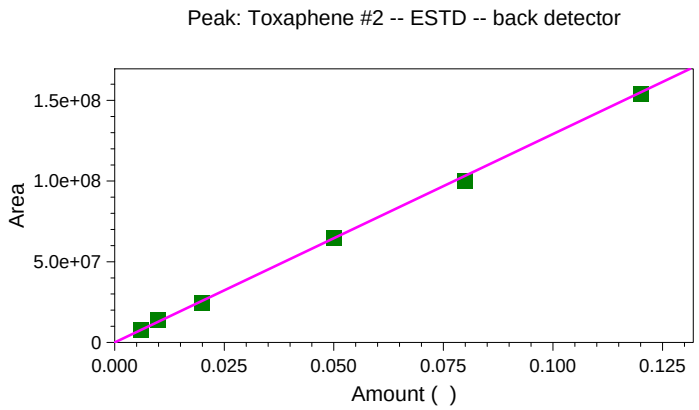
Area	80131437		
RF	667761975		
Last Area			
Residual	-0.00321197	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	80131437		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:39
User: JJY
Instrument: Semi 1

Toxaphene #2 (back detector)
Average RF: 1.29183e+009 RF StDev: 5.29063e+007 RF %RSD: 4.09544
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.29183e+009



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	7820534	13871595	24759717	64418919	99940295
RF	1303422333.33333	1387159500	1237985850	1288378380	1249253687.5
Last Area Residual	-5.38262e-005	-0.000737915	0.000833659	0.00013372	0.00263685
Rep StDev					
Rep %RSD					
Rep 1 Area	7820534	13871595	24759717	64418919	99940295
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:39
User: JJY
Instrument: Semi 1

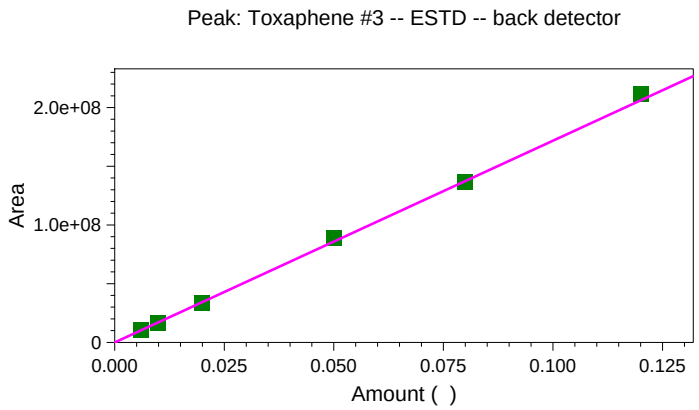
Amount	0.12	0	0
Area	154175969		
RF	1284799741.66667		
Last Area			
Residual	0.000653351	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	154175969		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:40
User: JJY
Instrument: Semi 1

Toxaphene #3 (back detector)
Average RF: 1.71769e+009 RF StDev: 4.19176e+007 RF %RSD: 2.44035
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.71769e+009



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	10200961	16842959	33564596	88776716	136229607
RF	1700160166.66667	1684295900	1678229800	1775534320	1702870087.5
Last Area Residual	6.12165e-005	0.000194386	0.000459403	-0.00168392	0.000690007
Rep StDev					
Rep %RSD					
Rep 1 Area	10200961	16842959	33564596	88776716	136229607
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:40
User: JJY
Instrument: Semi 1

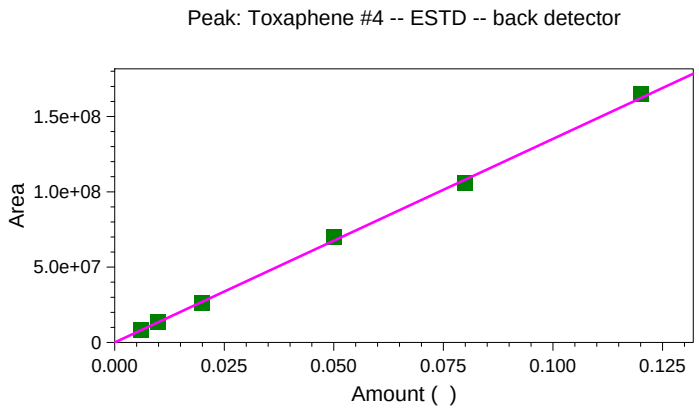
Area	211802566		
RF	1765021383.33333		
Last Area			
Residual	-0.00330697	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	211802566		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:42
User: JJY
Instrument: Semi 1

Toxaphene #4 (back detector)
Average RF: 1.35138e+009 RF StDev: 3.14468e+007 RF %RSD: 2.32702
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.35138e+009



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	8126174	13400858	26319473	69899134	105893782
RF	1354362333.33333	1340085800	1315973650	1397982680	1323672275
Last Area Residual	-1.32606e-005	8.35435e-005	0.00052394	-0.00172443	0.00164001
Rep StDev					
Rep %RSD					
Rep 1 Area	8126174	13400858	26319473	69899134	105893782
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:42
User: JJY
Instrument: Semi 1

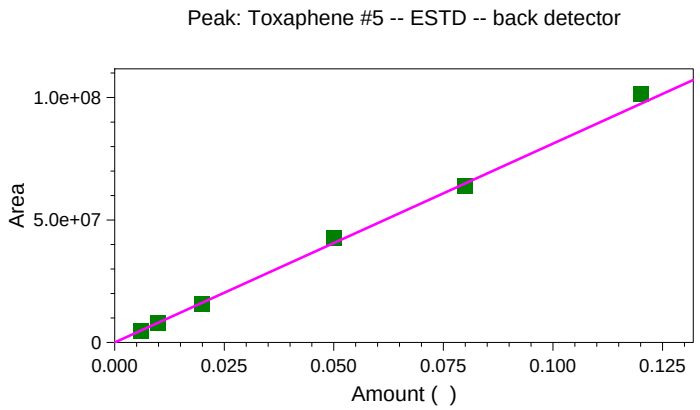
Amount	0.12	0	0
Area	165141270		
RF	1376177250		
Last Area			
Residual	-0.00220234	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	165141270		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:43
User: JJY
Instrument: Semi 1

Toxaphene #5 (back detector)
Average RF: 8.11767e+008 RF StDev: 2.85883e+007 RF %RSD: 3.52174
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.11767e+008



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	4762592	7956483	15714458	42496932	63923430
RF	793765333.3 33333	795648300	785722900	849938640	799042875
Last Area Residual	0.000133056	0.000198564	0.000641667	-0.00235114	0.00125398
Rep StDev					
Rep %RSD					
Rep 1 Area	4762592	7956483	15714458	42496932	63923430
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 9	Level 10
Amount	0.12	0	0

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:43
User: JJY
Instrument: Semi 1

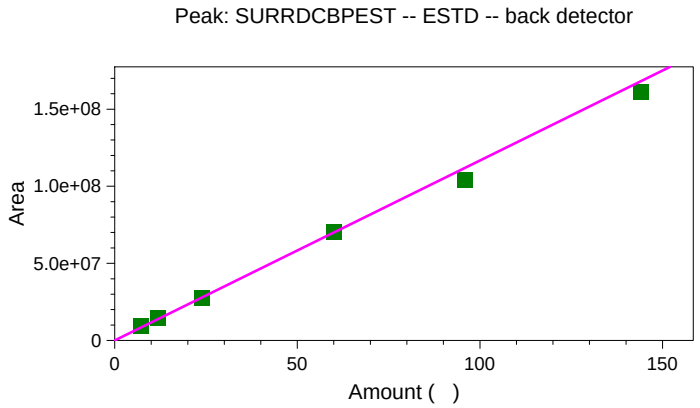
Area	101578145		
RF	846484541.666667		
Last Area			
Residual	-0.00513213	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	101578145		
Rep 1 User	JJY		
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat		
Rep 1 Sample ID	TC ICAL 6 PP 3843		
Rep 1 Calib. Time	Aug 23,2013 09:55:35		

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:44
User: JJY
Instrument: Semi 1

SURRDCBPEST (back detector)
Average RF: 1.16714e+006 RF StDev: 61387.1 RF %RSD: 5.25962
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16714e+006



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	9078188	14439379	27719239	70545704	104386601
RF	1260859.44444	1203281.58333	1154968.291667	1175761.733333	1087360.42708333
Last Area Residual	-0.578147	-0.371589	0.250292	-0.443213	6.56207
Rep StDev					
Rep %RSD					
Rep 1 Area	9078188	14439379	27719239	70545704	104386601
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\014.dat	C:\Instarch\Semi1\data\082213pstic\015.dat	C:\Instarch\Semi1\data\082213pstic\016.dat	C:\Instarch\Semi1\data\082213pstic\017.dat	C:\Instarch\Semi1\data\082213pstic\018.dat
Rep 1 Sample ID	TC ICAL 1 PP 3838	TC ICAL 2 PP 3839	TC ICAL 3 PP 3840	TC ICAL 4 PP 3841	TC ICAL 5 PP 3842
Rep 1 Calib. Time	Aug 23,2013 09:54:55	Aug 23,2013 09:55:03	Aug 23,2013 09:55:11	Aug 23,2013 09:55:19	Aug 23,2013 09:55:27

	Level 6	Level 7	Level 9	Level 10
Amount	144	0	0	0

Calibration Report

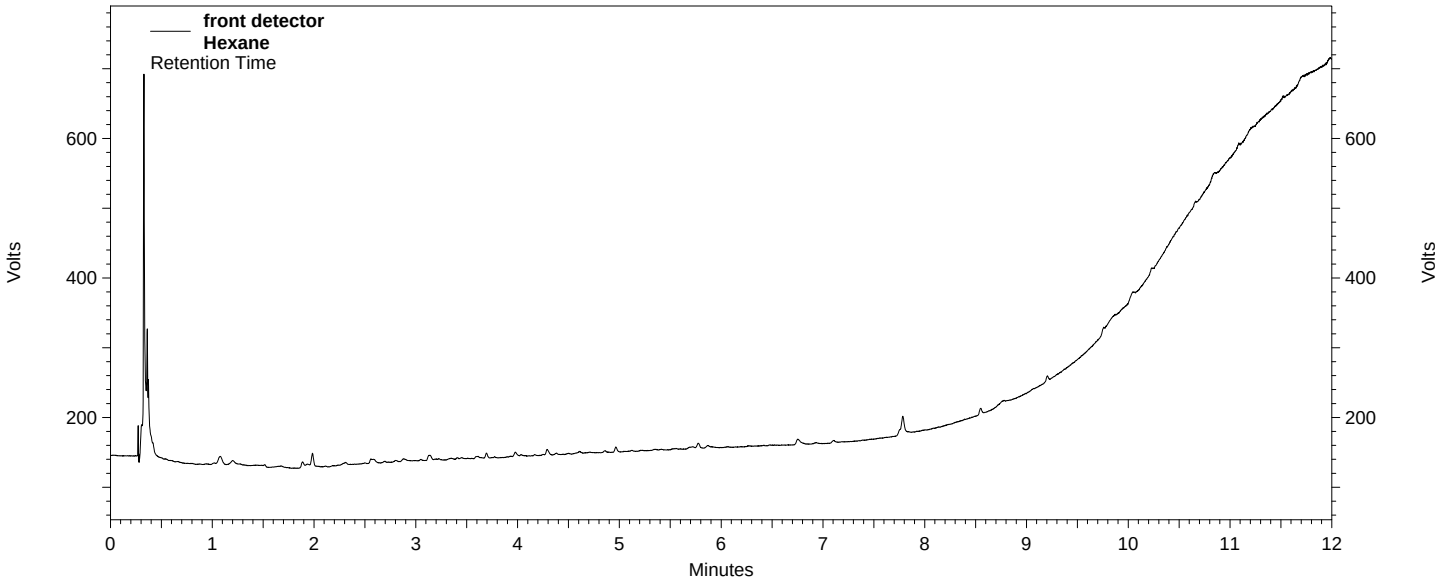
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
Print Time: Aug 29,2013 09:03:44
User: JJY
Instrument: Semi 1

Area	161367796			
RF	1120609.69444			
Last Area Residual	5.74086	N/A	N/A	N/A
Rep StDev				
Rep %RSD				
Rep 1 Area	161367796			
Rep 1 User	JJY			
Rep 1 Data File	C:\Instarch\Semi1\data\082213pstic\019.dat			
Rep 1 Sample ID	TC ICAL 6 PP 3843			
Rep 1 Calib. Time	Aug 23,2013 09:55:35			

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\013.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Hexane
Acquired: Aug 22,2013 18:45:45
Printed: Aug 29,2013 08:58:26

Data Summary: {Data Description}



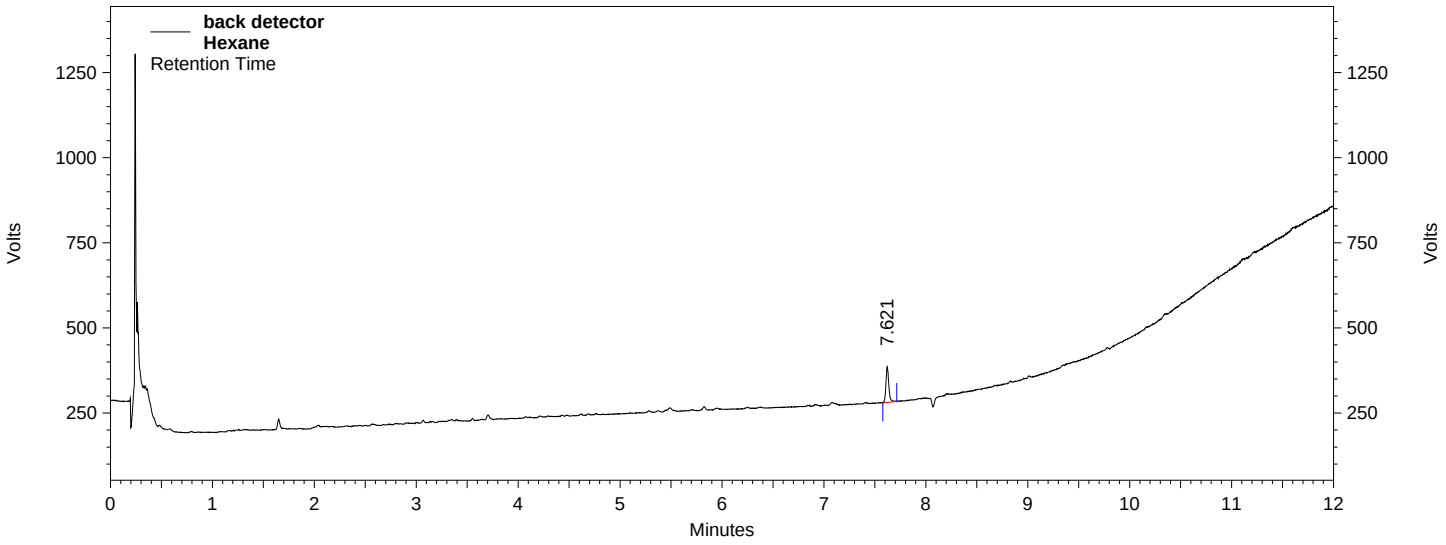
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST			0.0000 BDL
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
44DDE			0.0000 BDL
ENDOI			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST			0.0000 BDL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\013.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213pstic.met
User: JJY
Sample ID: Hexane
Acquired: Aug 22,2013 18:45:45
Printed: Aug 29,2013 08:58:26

Data Summary: {Data Description}



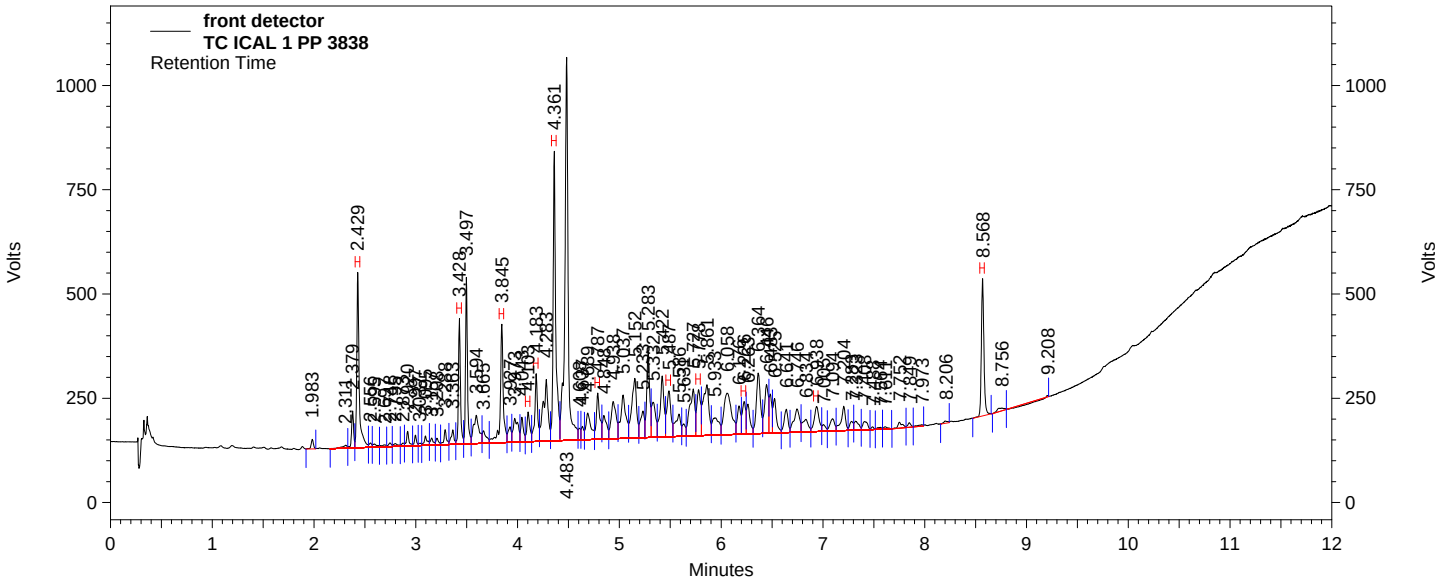
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST			0.0000 BDL
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
ENDOI			0.0000 BDL
44DDE			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST			0.0000 BDL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\014.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 1 PP 3838
Acquired: Aug 22,2013 19:02:30
Printed: Aug 29,2013 08:58:28

Data Summary: {Data Description}



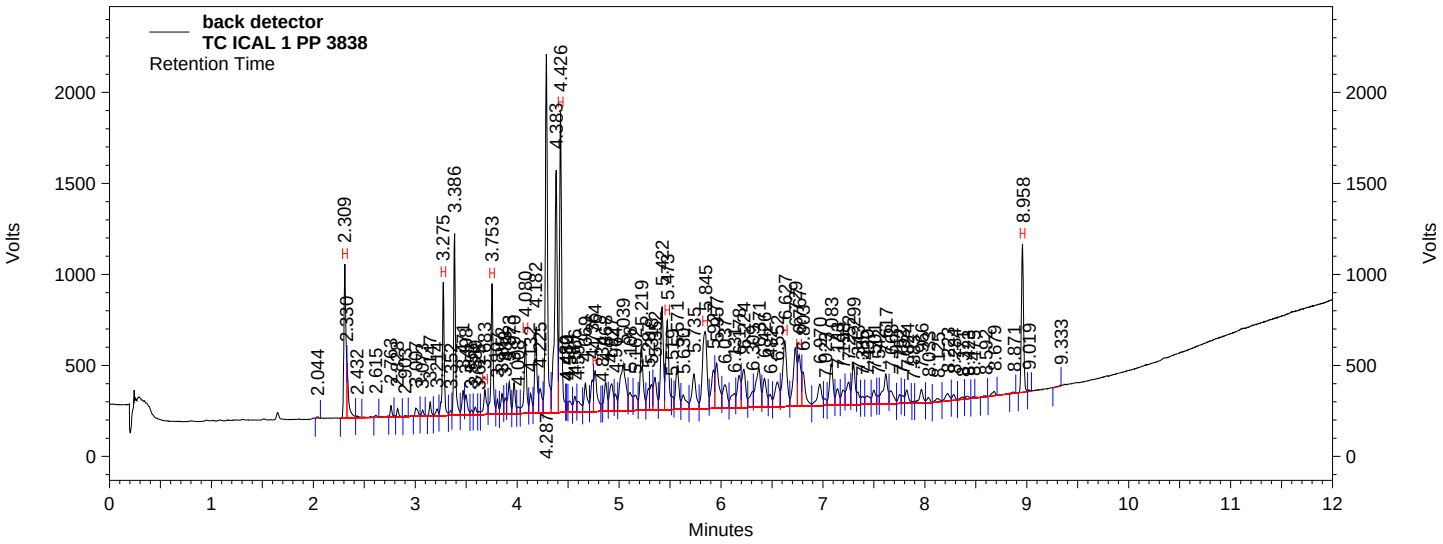
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.429	5378550	7.2000 CAL
Chlordane #1	3.428	3192265	0.0060 CAL
Chlordane #2	3.845	4442192	0.0060 CAL
Chlordane #3	4.103	1113875	0.0060 CAL
Chlordane #4	4.183	2374093	0.0060 CAL
Chlordane #5	4.361	9560707	0.0060 CAL
Toxaphene #1	4.787	1965935	0.0060 CAL
Toxaphene #2	5.487	2347253	0.0060 CAL
Toxaphene #3	5.778	2206935	0.0060 CAL
Toxaphene #4	6.226	1390553	0.0060 CAL
Toxaphene #5	6.938	1495439	0.0060 CAL
SURRDCBPEST	8.568	4435834	7.2000 CAL
Chlordane		20683132	0.0300 CAL
Toxaphene		9406115	0.0300 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\014.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 1 PP 3838
Acquired: Aug 22,2013 19:02:30
Printed: Aug 29,2013 08:58:28

Data Summary: {Data Description}



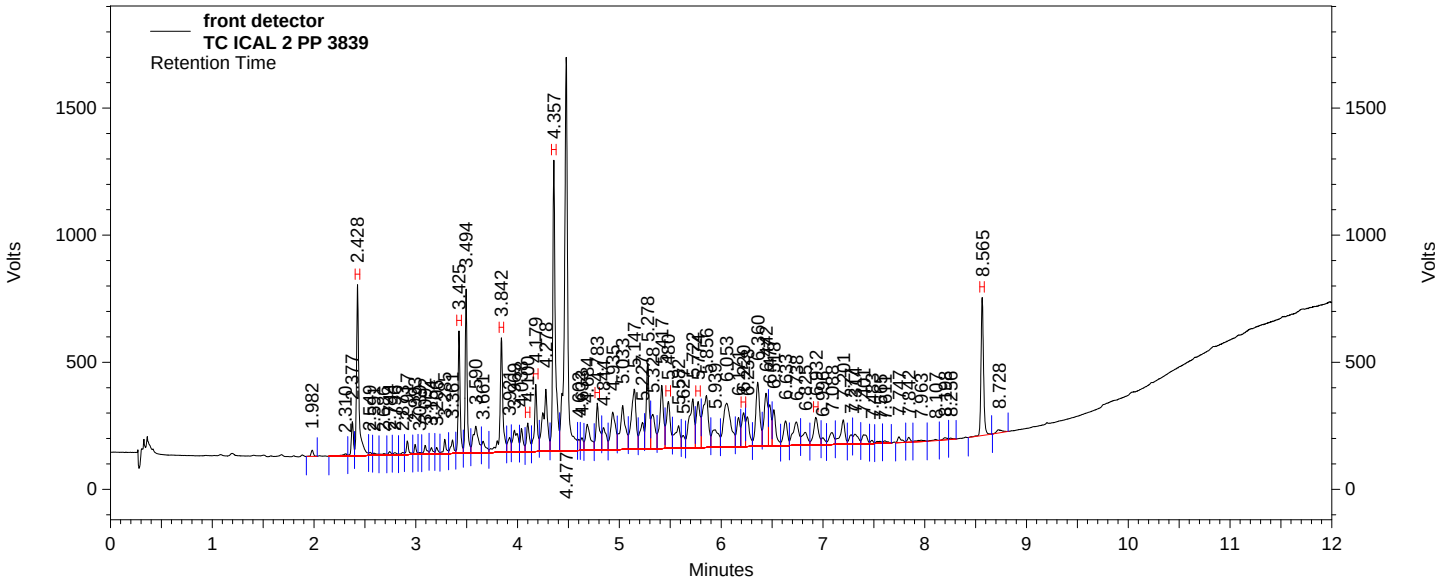
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	9137757	7.2000 CAL
Chlordane #1	3.275	7353839	0.0060 CAL
Chlordane #2	3.683	2060275	0.0060 CAL
Chlordane #3	3.753	7725318	0.0060 CAL
Chlordane #4	4.080	5402033	0.0060 CAL
Chlordane #5	4.426	18751085	0.0060 CAL
Toxaphene #1	4.764	3945975	0.0060 CAL
Toxaphene #2	5.473	7820534	0.0060 CAL
Toxaphene #3	5.845	10200961	0.0060 CAL
Toxaphene #4	6.627	8126174	0.0060 CAL
Toxaphene #5	6.767	4762592	0.0060 CAL
SURRDCBPEST	8.958	9078188	7.2000 CAL
Chlordane		41292550	0.0300 CAL
Toxaphene		34856236	0.0300 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\015.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 2 PP 3839
Acquired: Aug 22,2013 19:19:15
Printed: Aug 29,2013 08:58:30

Data Summary: {Data Description}



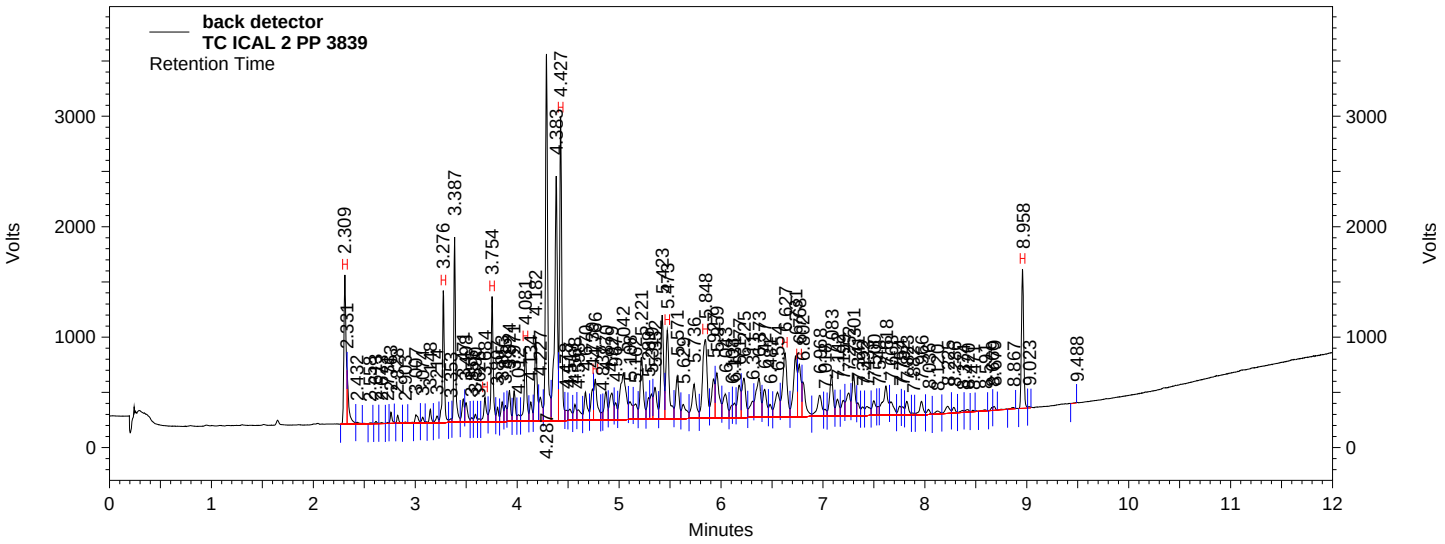
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.428	8670428	12.0000 CAL
Chlordane #1	3.425	5049260	0.0100 CAL
Chlordane #2	3.842	6987764	0.0100 CAL
Chlordane #3	4.100	1771048	0.0100 CAL
Chlordane #4	4.179	3814671	0.0100 CAL
Chlordane #5	4.357	15847289	0.0100 CAL
Toxaphene #1	4.783	3225991	0.0100 CAL
Toxaphene #2	5.480	3813639	0.0100 CAL
Toxaphene #3	5.774	3796428	0.0100 CAL
Toxaphene #4	6.220	2328272	0.0100 CAL
Toxaphene #5	6.932	2659977	0.0100 CAL
SURRDCBPEST	8.565	7239072	12.0000 CAL
Chlordane		33470032	0.0500 CAL
Toxaphene		15824307	0.0500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\015.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 2 PP 3839
Acquired: Aug 22,2013 19:19:15
Printed: Aug 29,2013 08:58:30

Data Summary: {Data Description}



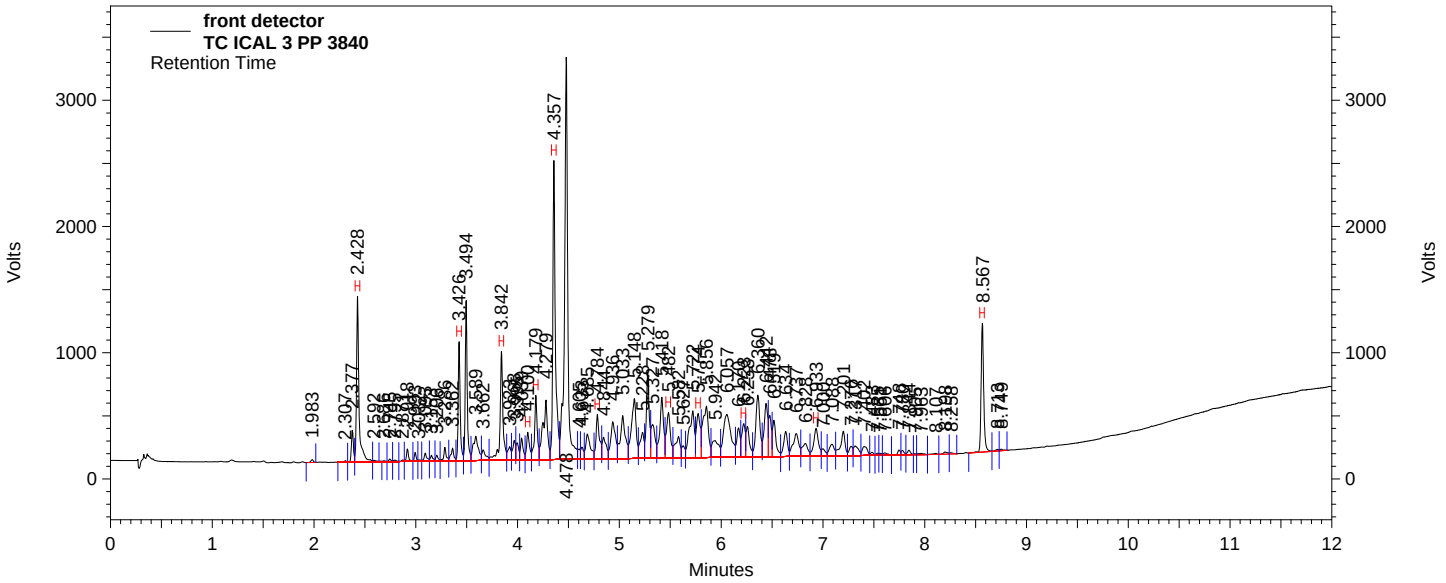
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	15114800	12.0000 CAL
Chlordane #1	3.276	12035754	0.0100 CAL
Chlordane #2	3.684	3040986	0.0100 CAL
Chlordane #3	3.754	12416500	0.0100 CAL
Chlordane #4	4.081	8685278	0.0100 CAL
Chlordane #5	4.427	30594365	0.0100 CAL
Toxaphene #1	4.766	6392295	0.0100 CAL
Toxaphene #2	5.473	13871595	0.0100 CAL
Toxaphene #3	5.848	16842959	0.0100 CAL
Toxaphene #4	6.627	13400858	0.0100 CAL
Toxaphene #5	6.768	7956483	0.0100 CAL
SURRDCBPEST	8.958	14439379	12.0000 CAL
Chlordane		66772883	0.0500 CAL
Toxaphene		58464190	0.0500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\016.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 3 PP 3840
Acquired: Aug 22,2013 19:35:54
Printed: Aug 29,2013 08:58:32

Data Summary: {Data Description}



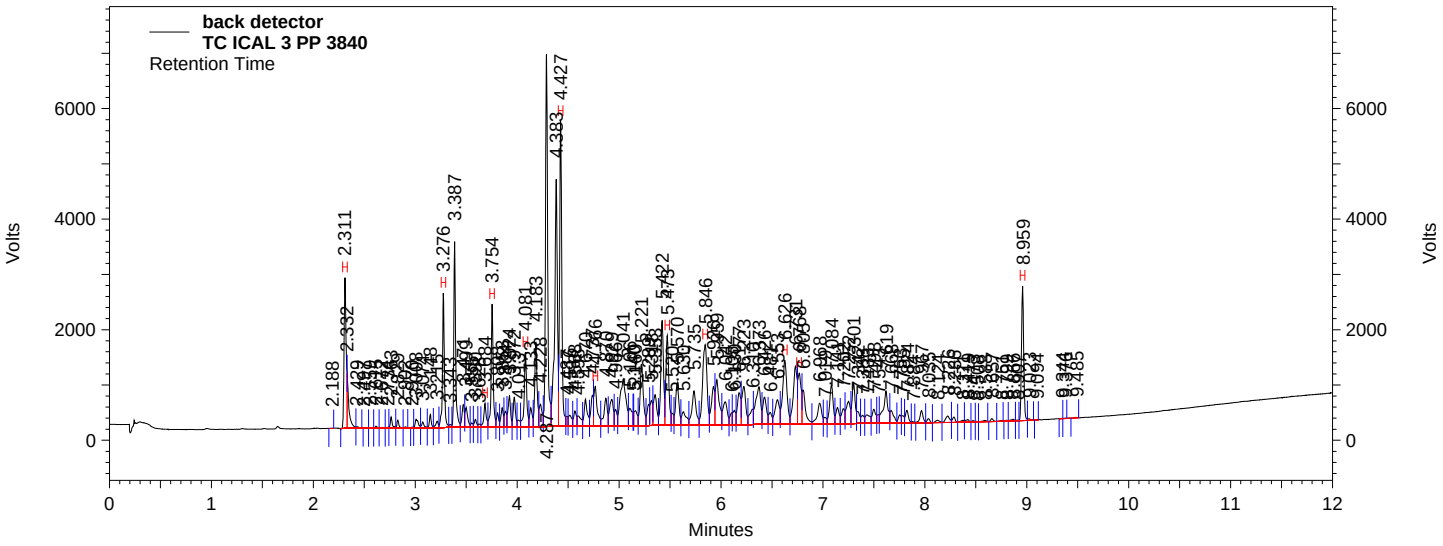
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.428	17306459	24.0000 CAL
Chlordane #1	3.426	9934661	0.0200 CAL
Chlordane #2	3.842	13376252	0.0200 CAL
Chlordane #3	4.100	3437399	0.0200 CAL
Chlordane #4	4.179	7326948	0.0200 CAL
Chlordane #5	4.357	32352357	0.0200 CAL
Toxaphene #1	4.784	6319280	0.0200 CAL
Toxaphene #2	5.482	7763492	0.0200 CAL
Toxaphene #3	5.774	7177491	0.0200 CAL
Toxaphene #4	6.223	4840451	0.0200 CAL
Toxaphene #5	6.933	5444193	0.0200 CAL
SURRDCBPEST	8.567	14028866	24.0000 CAL
Chlordane		66427617	0.1000 CAL
Toxaphene		31544907	0.1000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\016.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 3 PP 3840
Acquired: Aug 22,2013 19:35:54
Printed: Aug 29,2013 08:58:32

Data Summary: {Data Description}



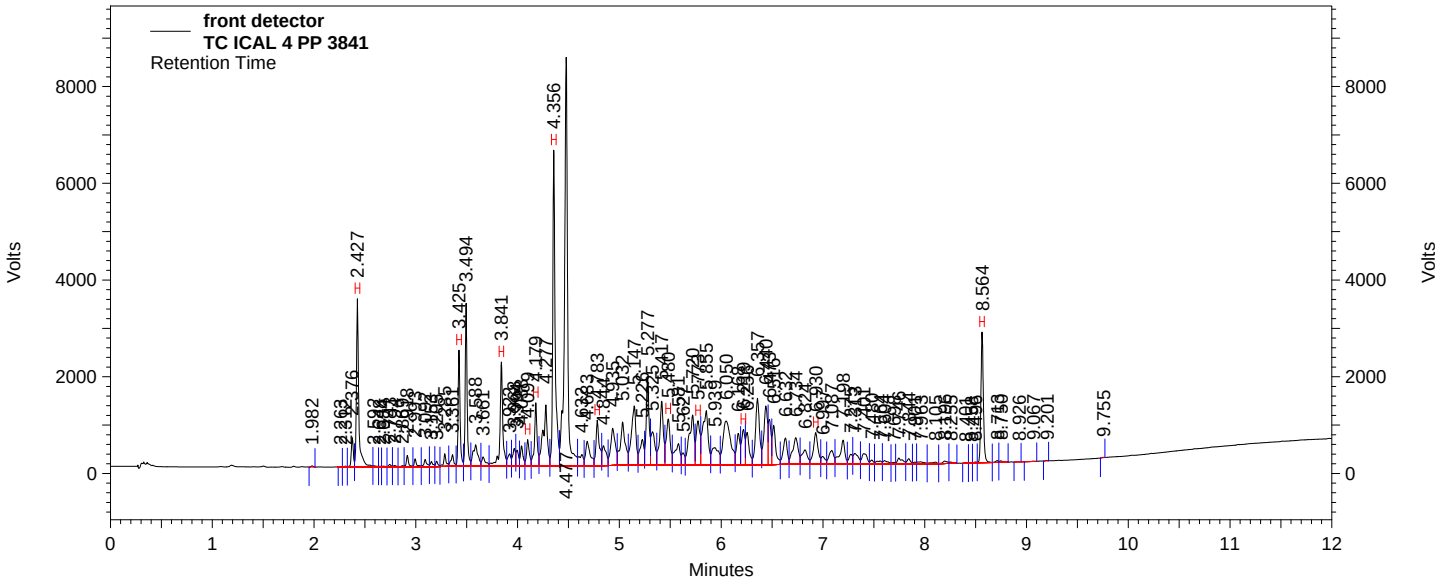
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.311	29892353	24.0000 CAL
Chlordane #1	3.276	24400600	0.0200 CAL
Chlordane #2	3.684	5647889	0.0200 CAL
Chlordane #3	3.754	24347491	0.0200 CAL
Chlordane #4	4.081	17426005	0.0200 CAL
Chlordane #5	4.427	63217972	0.0200 CAL
Toxaphene #1	4.766	12669155	0.0200 CAL
Toxaphene #2	5.473	24759717	0.0200 CAL
Toxaphene #3	5.846	33564596	0.0200 CAL
Toxaphene #4	6.626	26319473	0.0200 CAL
Toxaphene #5	6.768	15714458	0.0200 CAL
SURRDCBPEST	8.959	27719239	24.0000 CAL
Chlordane		135039957	0.1000 CAL
Toxaphene		113027399	0.1000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 4 PP 3841
Acquired: Aug 22,2013 19:52:35
Printed: Aug 29,2013 08:58:34

Data Summary: {Data Description}



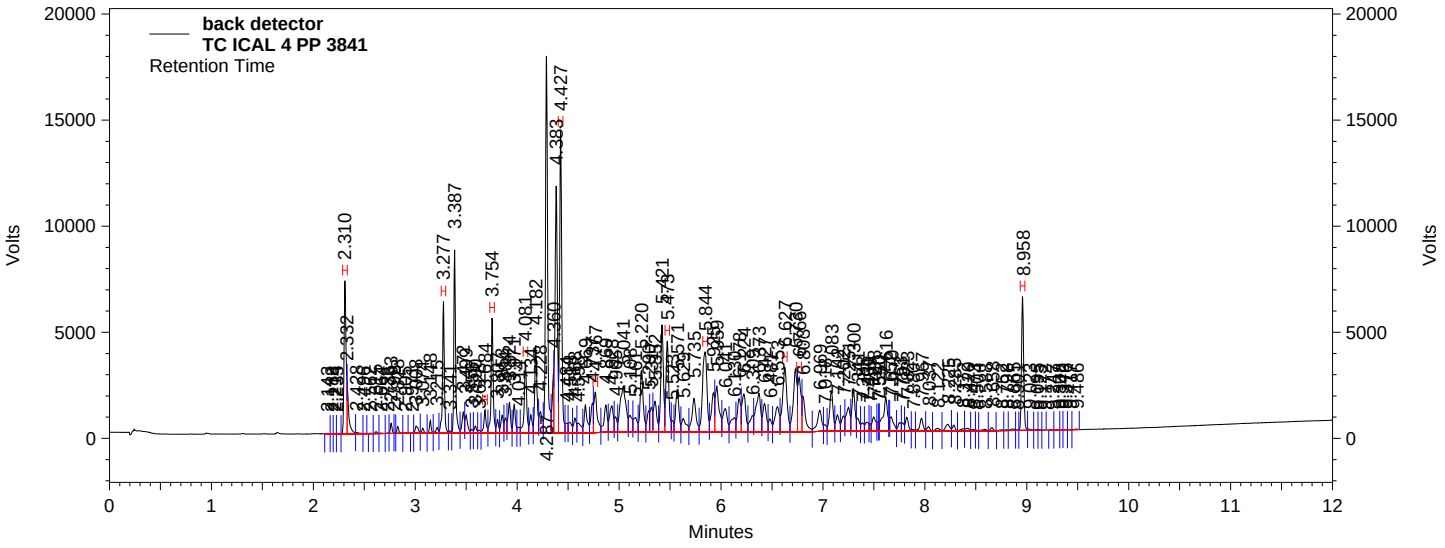
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.427	42431898	60.0000 CAL
Chlordane #1	3.425	24453316	0.0500 CAL
Chlordane #2	3.841	31887169	0.0500 CAL
Chlordane #3	4.099	8087296	0.0500 CAL
Chlordane #4	4.179	17923542	0.0500 CAL
Chlordane #5	4.356	84183229	0.0500 CAL
Toxaphene #1	4.783	16089203	0.0500 CAL
Toxaphene #2	5.480	19611055	0.0500 CAL
Toxaphene #3	5.773	17954240	0.0500 CAL
Toxaphene #4	6.219	12596300	0.0500 CAL
Toxaphene #5	6.930	15658232	0.0500 CAL
SURRDCBPEST	8.564	34924205	60.0000 CAL
Chlordane		166534552	0.2500 CAL
Toxaphene		81909030	0.2500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 4 PP 3841
Acquired: Aug 22,2013 19:52:35
Printed: Aug 29,2013 08:58:34

Data Summary: {Data Description}



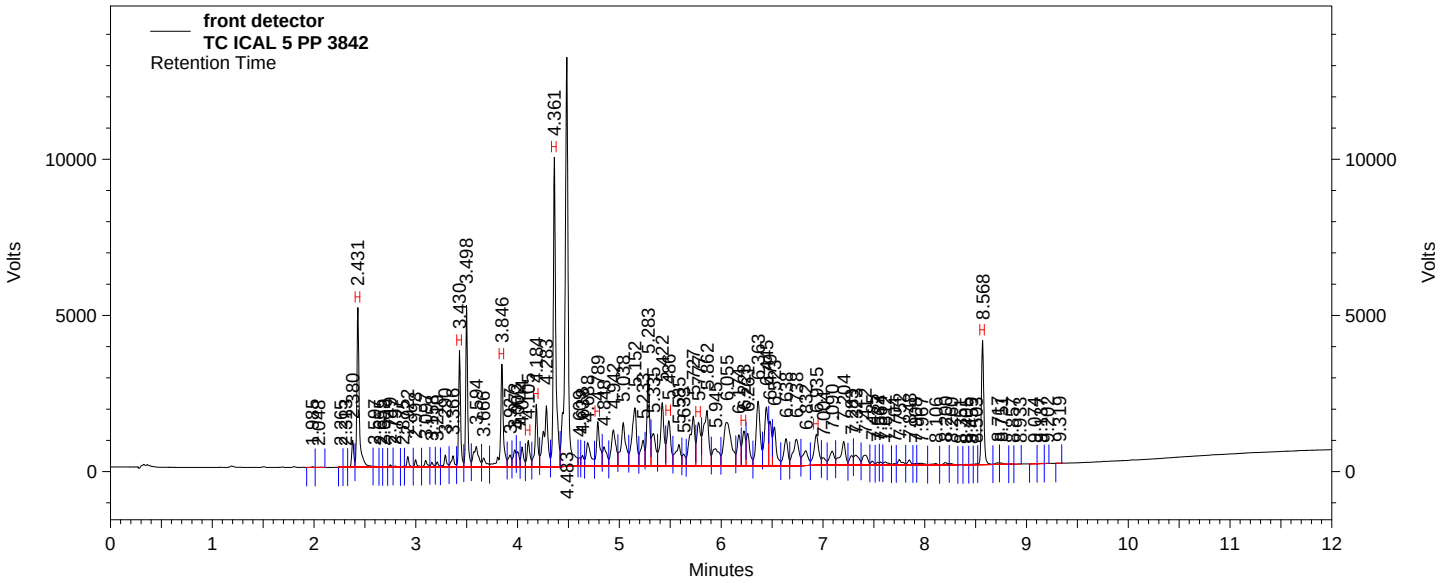
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	77038943	60.0000 CAL
Chlordane #1	3.277	61172744	0.0500 CAL
Chlordane #2	3.684	13115663	0.0500 CAL
Chlordane #3	3.754	58753456	0.0500 CAL
Chlordane #4	4.081	42736351	0.0500 CAL
Chlordane #5	4.427	159096614	0.0500 CAL
Toxaphene #1	4.767	33497914	0.0500 CAL
Toxaphene #2	5.473	64418919	0.0500 CAL
Toxaphene #3	5.844	88776716	0.0500 CAL
Toxaphene #4	6.627	69899134	0.0500 CAL
Toxaphene #5	6.766	42496932	0.0500 CAL
SURRDCBPEST	8.958	70545704	60.0000 CAL
Chlordane		334874828	0.2500 CAL
Toxaphene		299089615	0.2500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\018.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 5 PP 3842
Acquired: Aug 22,2013 20:09:12
Printed: Aug 29,2013 08:58:36

Data Summary: {Data Description}



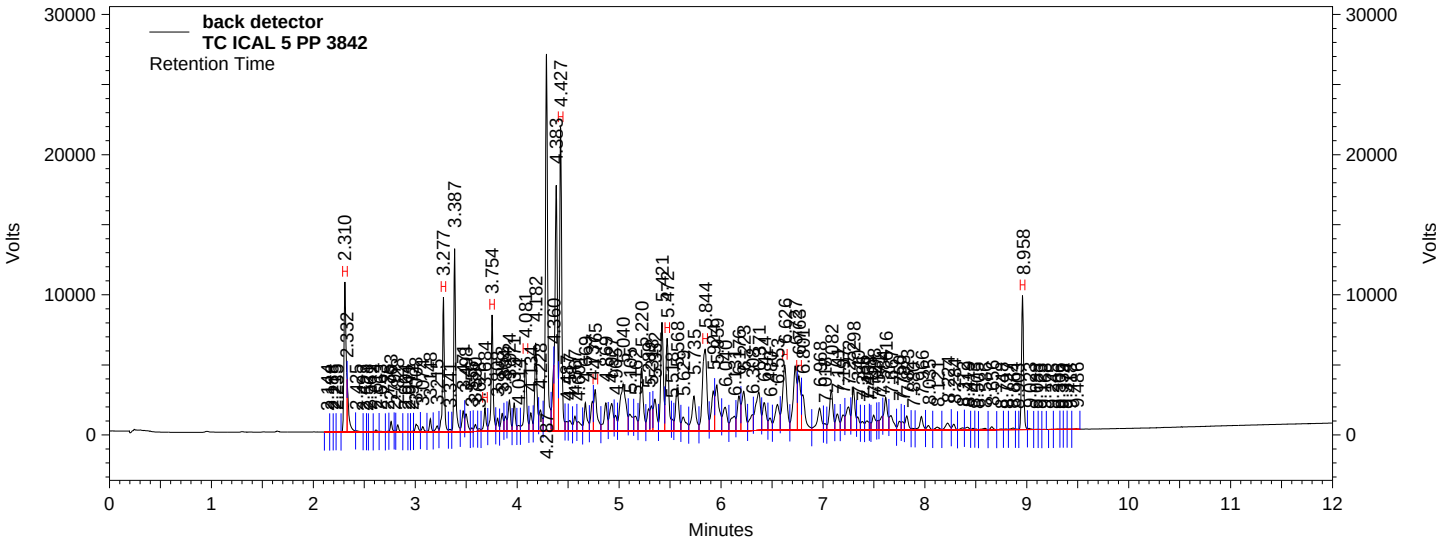
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.431	64862664	96.0000 CAL
Chlordane #1	3.430	37723171	0.0800 CAL
Chlordane #2	3.846	48442912	0.0800 CAL
Chlordane #3	4.105	12523625	0.0800 CAL
Chlordane #4	4.184	27512055	0.0800 CAL
Chlordane #5	4.361	131013544	0.0800 CAL
Toxaphene #1	4.789	24705475	0.0800 CAL
Toxaphene #2	5.486	29925140	0.0800 CAL
Toxaphene #3	5.777	28250321	0.0800 CAL
Toxaphene #4	6.223	19454524	0.0800 CAL
Toxaphene #5	6.935	24671321	0.0800 CAL
SURRDCBPEST	8.568	51929480	96.0000 CAL
Chlordane		257215307	0.4000 CAL
Toxaphene		127006781	0.4000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\018.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 5 PP 3842
Acquired: Aug 22,2013 20:09:12
Printed: Aug 29,2013 08:58:36

Data Summary: {Data Description}



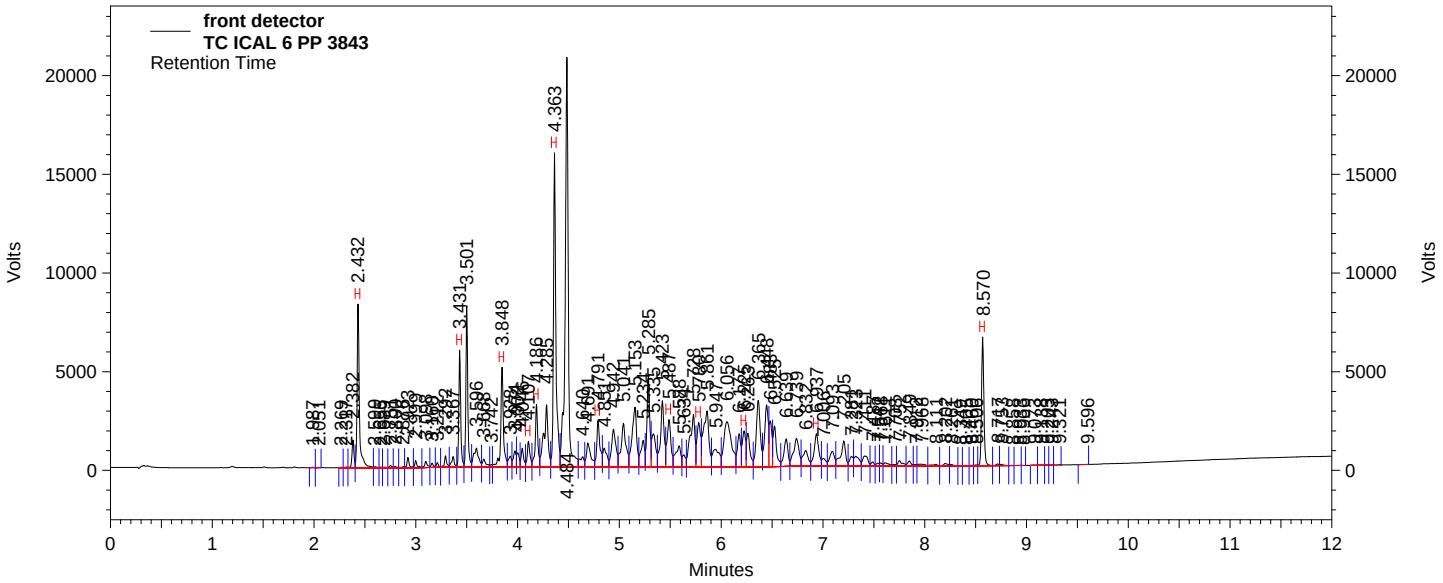
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	118388543	96.0000 CAL
Chlordane #1	3.277	94077491	0.0800 CAL
Chlordane #2	3.684	19774399	0.0800 CAL
Chlordane #3	3.754	89162016	0.0800 CAL
Chlordane #4	4.081	66338471	0.0800 CAL
Chlordane #5	4.427	245220522	0.0800 CAL
Toxaphene #1	4.765	50724482	0.0800 CAL
Toxaphene #2	5.472	99940295	0.0800 CAL
Toxaphene #3	5.844	136229607	0.0800 CAL
Toxaphene #4	6.626	105893782	0.0800 CAL
Toxaphene #5	6.763	63923430	0.0800 CAL
SURRDCBPEST	8.958	104386601	96.0000 CAL
Chlordane		514572899	0.4000 CAL
Toxaphene		456711596	0.4000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 6 PP 3843
Acquired: Aug 22,2013 20:25:49
Printed: Aug 29,2013 08:58:38

Data Summary: {Data Description}



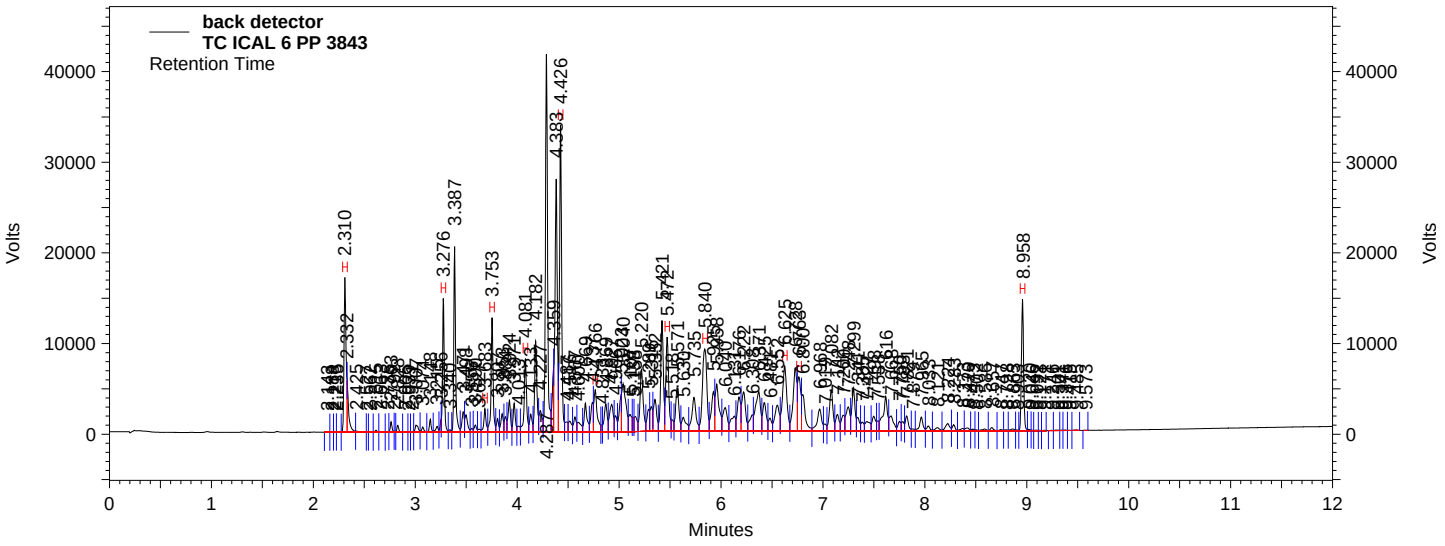
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.432	99224739	144.0000 CAL
Chlordane #1	3.431	58043952	0.1200 CAL
Chlordane #2	3.848	71864818	0.1200 CAL
Chlordane #3	4.107	18940785	0.1200 CAL
Chlordane #4	4.186	42175389	0.1200 CAL
Chlordane #5	4.363	205126349	0.1200 CAL
Toxaphene #1	4.791	39050683	0.1200 CAL
Toxaphene #2	5.487	48301689	0.1200 CAL
Toxaphene #3	5.780	43463108	0.1200 CAL
Toxaphene #4	6.225	31815938	0.1200 CAL
Toxaphene #5	6.937	39444673	0.1200 CAL
SURRDCBPEST	8.570	81438500	144.0000 CAL
Chlordane		396151293	0.6000 CAL
Toxaphene		202076091	0.6000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICAL 6 PP 3843
Acquired: Aug 22,2013 20:25:49
Printed: Aug 29,2013 08:58:38

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	183027559	144.0000 CAL
Chlordane #1	3.276	135761606	0.1200 CAL
Chlordane #2	3.683	29801800	0.1200 CAL
Chlordane #3	3.753	134504014	0.1200 CAL
Chlordane #4	4.081	101955830	0.1200 CAL
Chlordane #5	4.426	374584005	0.1200 CAL
Toxaphene #1	4.766	80131437	0.1200 CAL
Toxaphene #2	5.472	154175969	0.1200 CAL
Toxaphene #3	5.840	211802566	0.1200 CAL
Toxaphene #4	6.625	165141270	0.1200 CAL
Toxaphene #5	6.763	101578145	0.1200 CAL
SURRDCBPEST	8.958	161367796	144.0000 CAL
Chlordane		776607255	0.6000 CAL
Toxaphene		712829387	0.6000 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082213pstic.seq
User : JJY
Printed : Aug 29,2013 08:58:46

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082213pstic\020.dat	TC ICV PP 3844	Aug 29,2013 08:58:46

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	59.505	0.825	20.000	Passed
Chlordane #1	0.050	0.050	0.367	20.000	Passed
Chlordane #2	0.050	0.049	1.441	20.000	Passed
Chlordane #3	0.050	0.049	2.815	20.000	Passed
Chlordane #4	0.050	0.048	4.254	20.000	Passed
Chlordane #5	0.050	0.052	4.728	20.000	Passed
Toxaphene #1	0.050	0.051	2.737	20.000	Passed
Toxaphene #2	0.050	0.050	0.058	20.000	Passed
Toxaphene #3	0.050	0.050	0.393	20.000	Passed
Toxaphene #4	0.050	0.050	0.694	20.000	Passed
Toxaphene #5	0.050	0.052	3.222	20.000	Passed
SURRDCBPEST	60.000	59.482	0.864	20.000	Passed
Chlordane	0.250	0.248	0.683	20.000	Passed
Toxaphene	0.250	0.253	1.264	20.000	Passed

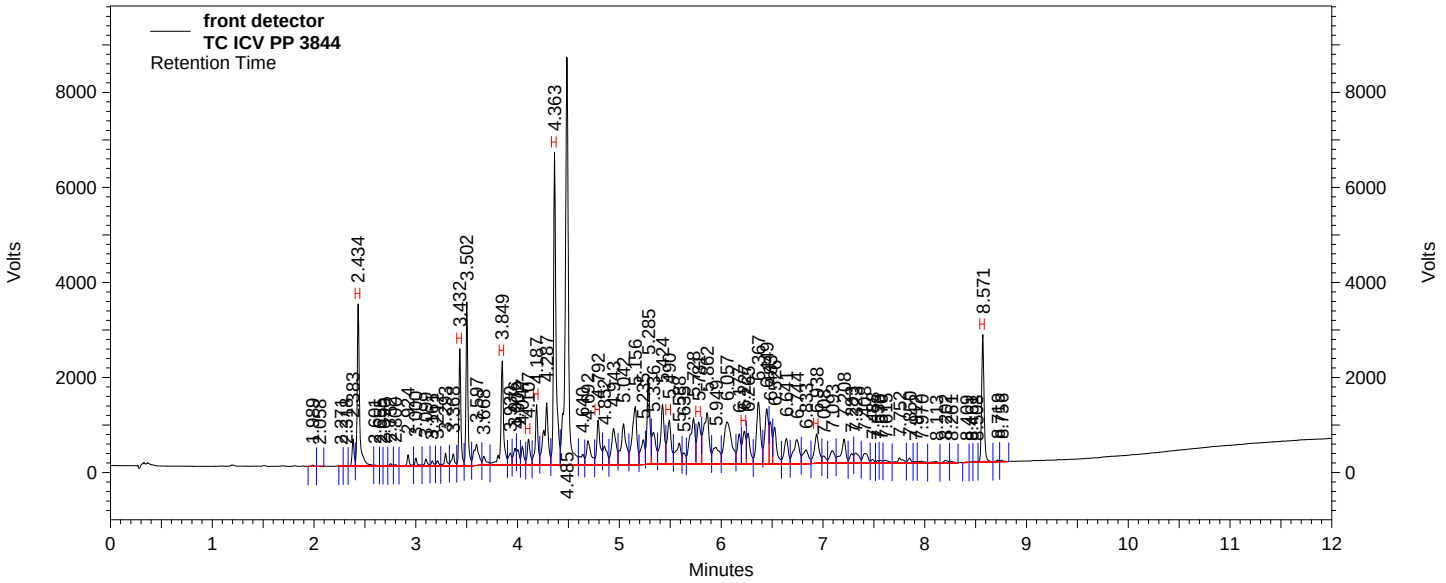
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	62.639	4.399	20.000	Passed
Chlordane #1	0.050	0.052	4.604	20.000	Passed
Chlordane #2	0.050	0.048	4.693	20.000	Passed
Chlordane #3	0.050	0.051	1.694	20.000	Passed
Chlordane #4	0.050	0.049	1.378	20.000	Passed
Chlordane #5	0.050	0.052	4.620	20.000	Passed
Toxaphene #1	0.050	0.053	5.461	20.000	Passed
Toxaphene #2	0.050	0.049	2.118	20.000	Passed
Toxaphene #3	0.050	0.051	1.685	20.000	Passed
Toxaphene #4	0.050	0.050	0.352	20.000	Passed
Toxaphene #5	0.050	0.051	2.560	20.000	Passed
SURRDCBPEST	60.000	59.413	0.978	20.000	Passed
Chlordane	0.250	0.252	0.969	20.000	Passed
Toxaphene	0.250	0.254	1.588	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082213pstic\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICV PP 3844
Acquired: Aug 22,2013 20:42:27
Printed: Aug 29,2013 08:59:34

Data Summary: {Data Description}



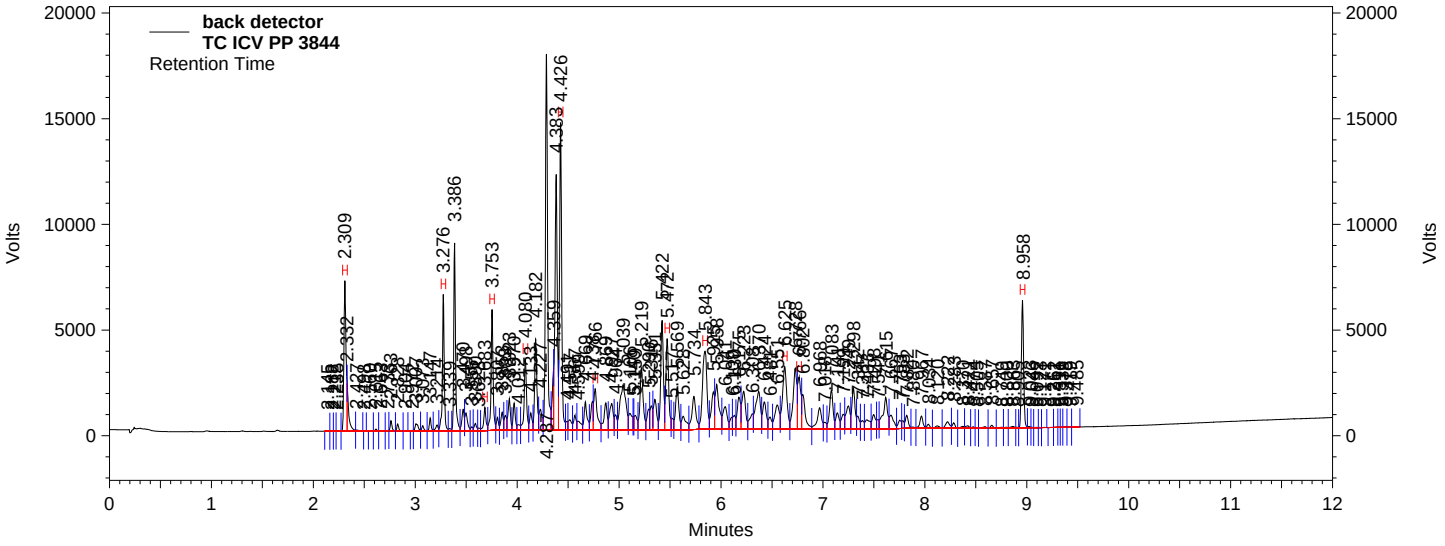
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	42274134	59.5051
Chlordane #1	3.432	24907750	0.0502
Chlordane #2	3.849	32443279	0.0493
Chlordane #3	4.107	8185829	0.0486
Chlordane #4	4.187	17532129	0.0479
Chlordane #5	4.363	85759573	0.0524
Toxaphene #1	4.792	16457060	0.0514
Toxaphene #2	5.490	19424193	0.0500
Toxaphene #3	5.781	18101384	0.0498
Toxaphene #4	6.227	12308617	0.0503
Toxaphene #5	6.938	14947473	0.0516
SURRDCBPEST	8.571	34622606	59.4817
Chlordane		168828560	0.2483
Toxaphene		81238727	0.2532

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082213pstic\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082213tcic.met
User: JJY
Sample ID: TC ICV PP 3844
Acquired: Aug 22,2013 20:42:27
Printed: Aug 29,2013 08:59:34

Data Summary: {Data Description}



back detector Results

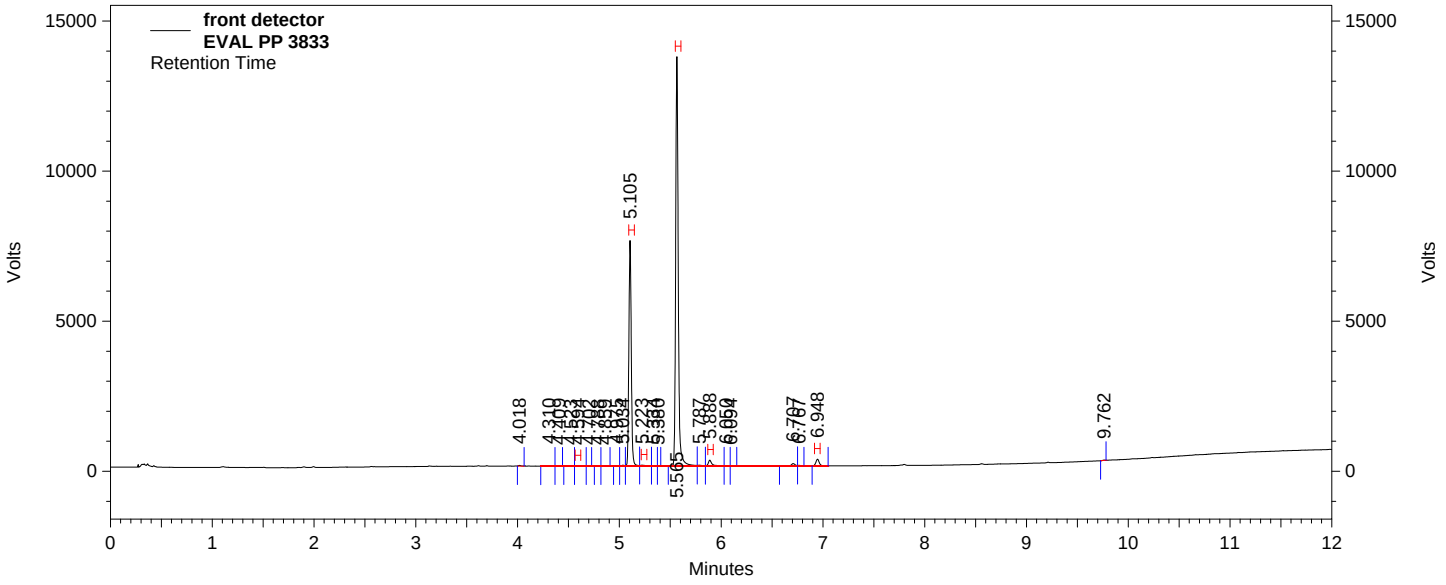
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	78951021	62.6394
Chlordane #1	3.276	62588133	0.0523
Chlordane #2	3.683	13404206	0.0477
Chlordane #3	3.753	60652035	0.0508
Chlordane #4	4.080	42520689	0.0493
Chlordane #5	4.426	163156385	0.0523
Toxaphene #1	4.766	34293580	0.0527
Toxaphene #2	5.472	63223550	0.0489
Toxaphene #3	5.843	87331370	0.0508
Toxaphene #4	6.625	67806471	0.0502
Toxaphene #5	6.766	41627301	0.0513
SURRDCBPEST	8.958	69343860	59.4135
Chlordane		342321448	0.2524
Toxaphene		294282272	0.2540

PESTICIDE
CONTINUING AND ENDING STANDARDS
DOCUMENTS

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\eval.met
User: JJY
Sample ID: EVAL PP 3833
Acquired: Aug 23,2013 10:04:03
Printed: Aug 23,2013 16:10:01

Data Summary: Breakdown A: Endrin 7.9%, DDT 0.6%
B: Endrin 8.1%, DDT 0.5%



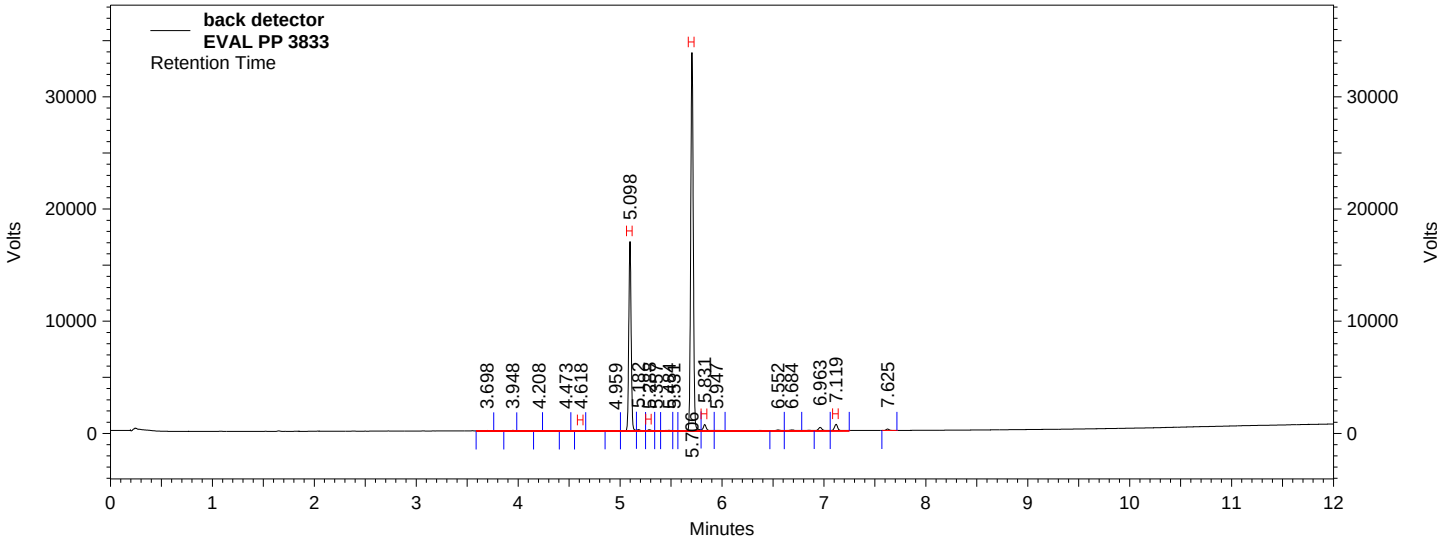
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE	4.594	221869	0.0004
ENDRIN	5.105	93184592	0.0302
44DDD	5.223	904402	0.0006
44DDT	5.565	185892615	0.0582
ENDRINALDEH	5.888	3923032	0.0015
ENDRINKETONE	6.948	4034550	0.0013

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\eval.met
User: JJY
Sample ID: EVAL PP 3833
Acquired: Aug 23,2013 10:04:03
Printed: Aug 23,2013 16:10:01

Data Summary: **Breakdown A: Endrin 7.9%, DDT 0.6%**
B: Endrin 8.1%, DDT 0.5%



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE	4.618	687962	0.0002
ENDRIN	5.098	206492234	0.0511
44DDD	5.288	1733838	0.0006
44DDT	5.706	449504102	0.1037
ENDRINALDEH	5.831	9149823	0.0020
ENDRINKETONE	7.119	9032446	0.0017

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:00

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\004.dat	Pest CCV PP 3935	Aug 23,2013 14:40:00

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	105.240	5.240	20.000	Passed
ALPHABHC	0.040	0.042	6.108	20.000	Passed
LINDANE	0.040	0.042	5.306	20.000	Passed
BETABHC	0.040	0.042	5.622	20.000	Passed
DELTABHC	0.040	0.043	6.839	20.000	Passed
HEPTACHLOR	0.040	0.043	6.782	20.000	Passed
ALDRIN	0.040	0.042	6.001	20.000	Passed
HEPTAEPOX	0.040	0.042	5.387	20.000	Passed
GAMMACHLOR	0.040	0.042	5.805	20.000	Passed
ALPHACHLOR	0.040	0.042	5.448	20.000	Passed
44DDE	0.040	0.044	9.368	20.000	Passed
ENDOI	0.040	0.042	4.861	20.000	Passed
DIELDRIN	0.040	0.042	5.919	20.000	Passed
ENDRIN	0.040	0.043	6.444	20.000	Passed
44DDD	0.040	0.043	7.658	20.000	Passed
ENDOII	0.040	0.042	5.335	20.000	Passed
44DDT	0.040	0.043	7.011	20.000	Passed
ENDRINALDEH	0.040	0.043	6.970	20.000	Passed
METHOXYCL	0.040	0.042	4.000	20.000	Passed
ENDOSULFATE	0.040	0.042	5.779	20.000	Passed
ENDRINKETONE	0.040	0.043	6.319	20.000	Passed
SURRDCBPEST	100.000	105.092	5.092	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	106.126	6.126	20.000	Passed
ALPHABHC	0.040	0.042	6.105	20.000	Passed
LINDANE	0.040	0.042	4.678	20.000	Passed
BETABHC	0.040	0.042	5.719	20.000	Passed
DELTABHC	0.040	0.043	6.861	20.000	Passed
HEPTACHLOR	0.040	0.042	6.150	20.000	Passed
ALDRIN	0.040	0.042	5.578	20.000	Passed
HEPTAEPOX	0.040	0.042	5.145	20.000	Passed
GAMMACHLOR	0.040	0.042	5.648	20.000	Passed
ALPHACHLOR	0.040	0.042	5.848	20.000	Passed
ENDOI	0.040	0.042	5.378	20.000	Passed
44DDE	0.040	0.043	6.684	20.000	Passed
DIELDRIN	0.040	0.042	5.713	20.000	Passed
ENDRIN	0.040	0.042	6.056	20.000	Passed
44DDD	0.040	0.043	7.389	20.000	Passed
ENDOII	0.040	0.042	6.114	20.000	Passed
44DDT	0.040	0.043	6.632	20.000	Passed
ENDRINALDEH	0.040	0.043	7.391	20.000	Passed
ENDOSULFATE	0.040	0.042	5.951	20.000	Passed
METHOXYCL	0.040	0.042	5.306	20.000	Passed

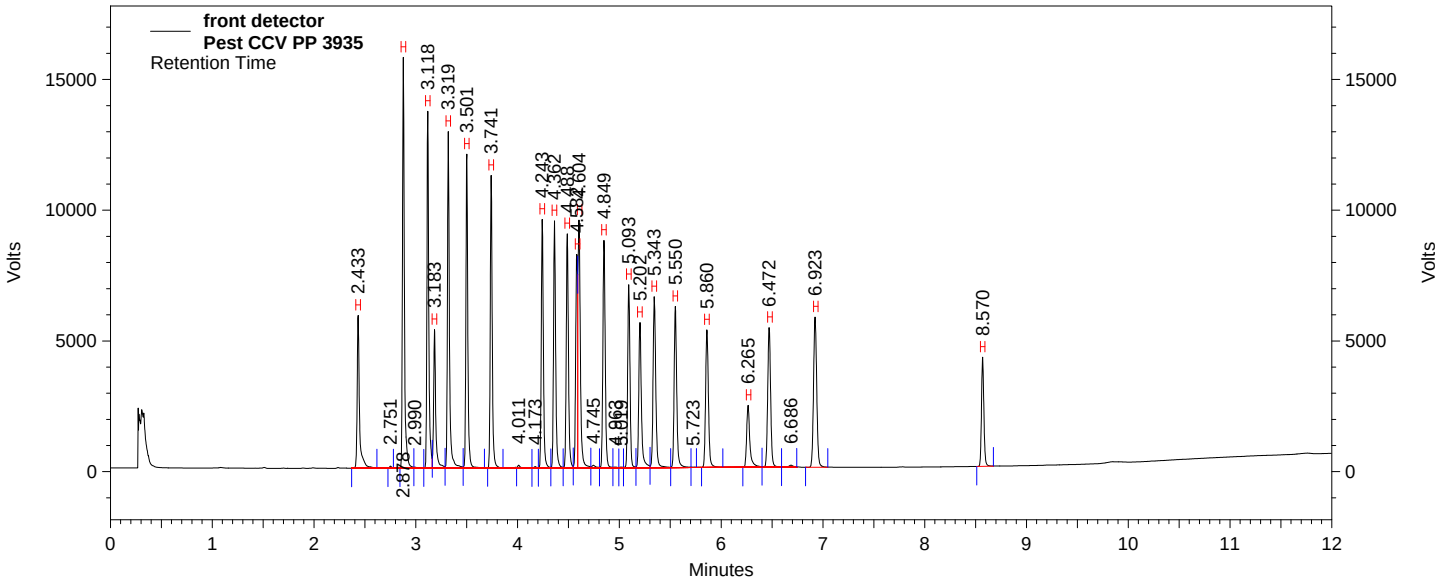
Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:00

ENDRINKETONE	0.040	0.042	5.700	20.000	**Passed**
SURRDCBPEST	100.000	105.520	5.520	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 10:53:51
Printed: Aug 23,2013 14:39:58

Data Summary: {Data Description}



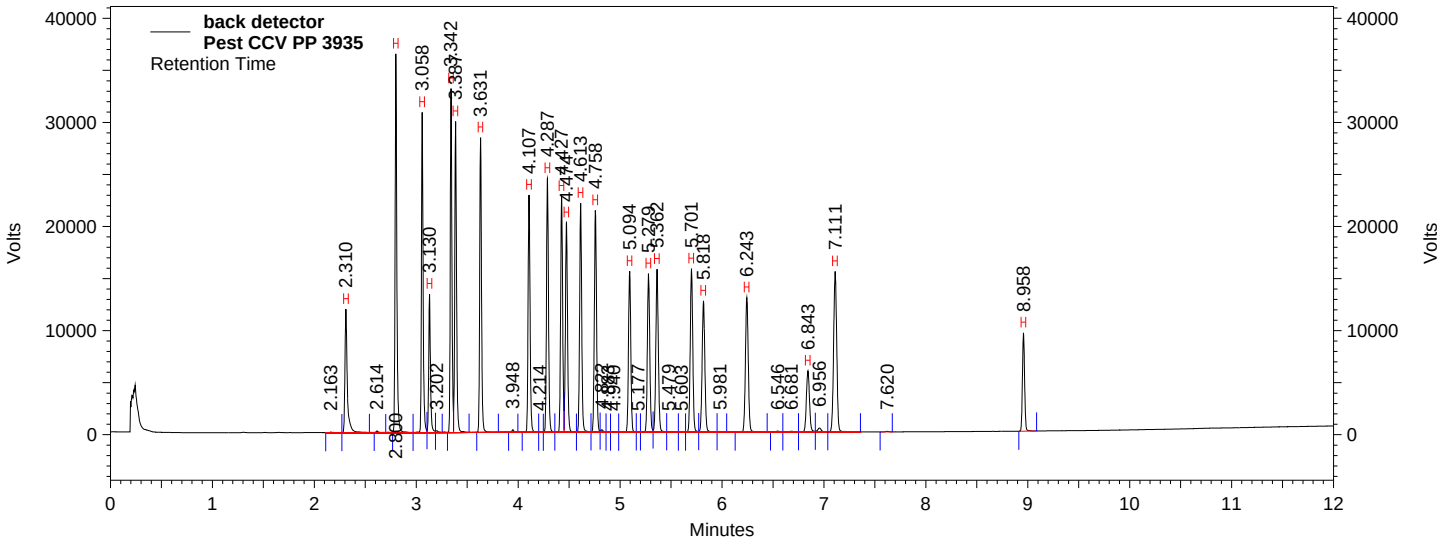
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	71589726	105.2396
ALPHABHC	2.878	154732126	0.0424
LINDANE	3.118	131944599	0.0421
BETABHC	3.183	58025579	0.0422
DELTABHC	3.319	134113691	0.0427
HEPTACHLOR	3.501	121279880	0.0427
ALDRIN	3.741	114126288	0.0424
HEPTAEPOX	4.243	102635681	0.0422
GAMMACHLOR	4.362	104320404	0.0423
ALPHACHLOR	4.488	101763323	0.0422
44DDE	4.582	78668140	0.0437
ENDOI	4.604	119114453	0.0419
DIELDRIN	4.849	105760306	0.0424
ENDRIN	5.093	83255013	0.0426
44DDD	5.202	76558030	0.0431
ENDOII	5.343	91682548	0.0421
44DDT	5.550	83726377	0.0428
ENDRINALDEH	5.860	78931840	0.0428
METHOXYCL	6.265	40497686	0.0416
ENDOSULFATE	6.472	83259021	0.0423
ENDRINKETONE	6.923	96786080	0.0425
SURRDCBPEST	8.570	53043515	105.0923

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 10:53:51
Printed: Aug 23,2013 14:39:58

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	148004948	106.1255
ALPHABHC	2.800	327169032	0.0424
LINDANE	3.058	271438395	0.0419
BETABHC	3.130	119220244	0.0423
DELTABHC	3.342	283665086	0.0427
HEPTACHLOR	3.387	280134544	0.0425
ALDRIN	3.631	266862237	0.0422
HEPTAEPOX	4.107	234851847	0.0421
GAMMACHLOR	4.287	252284672	0.0423
ALPHACHLOR	4.427	240704991	0.0423
ENDOI	4.474	225383408	0.0422
44DDE	4.613	241332556	0.0427
DIELDRIN	4.758	245170241	0.0423
ENDRIN	5.094	186379059	0.0424
44DDD	5.279	190923342	0.0430
ENDOII	5.362	207951181	0.0424
44DDT	5.701	207559712	0.0427
ENDRINALDEH	5.818	182287041	0.0430
ENDOSULFATE	6.243	196096679	0.0424
METHOXYCL	6.843	95150275	0.0421
ENDRINKETONE	7.111	251219120	0.0423
SURRDCBPEST	8.958	106331283	105.5203

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:04

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\005.dat	TC CCV PP 3936	Aug 23,2013 14:40:04

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	60.483	0.805	20.000	Passed
Chlordane #1	0.050	0.050	0.034	20.000	Passed
Chlordane #2	0.050	0.049	1.871	20.000	Passed
Chlordane #3	0.050	0.049	1.395	20.000	Passed
Chlordane #4	0.050	0.049	1.414	20.000	Passed
Chlordane #5	0.050	0.052	3.793	20.000	Passed
Toxaphene #1	0.050	0.050	0.476	20.000	Passed
Toxaphene #2	0.050	0.051	1.103	20.000	Passed
Toxaphene #3	0.050	0.050	0.235	20.000	Passed
Toxaphene #4	0.050	0.051	2.271	20.000	Passed
Toxaphene #5	0.050	0.052	3.850	20.000	Passed
SURRDCBPEST	60.000	57.455	4.241	20.000	Passed
Chlordane	0.250	0.250	0.171	20.000	Passed
Toxaphene	0.250	0.253	1.397	20.000	Passed

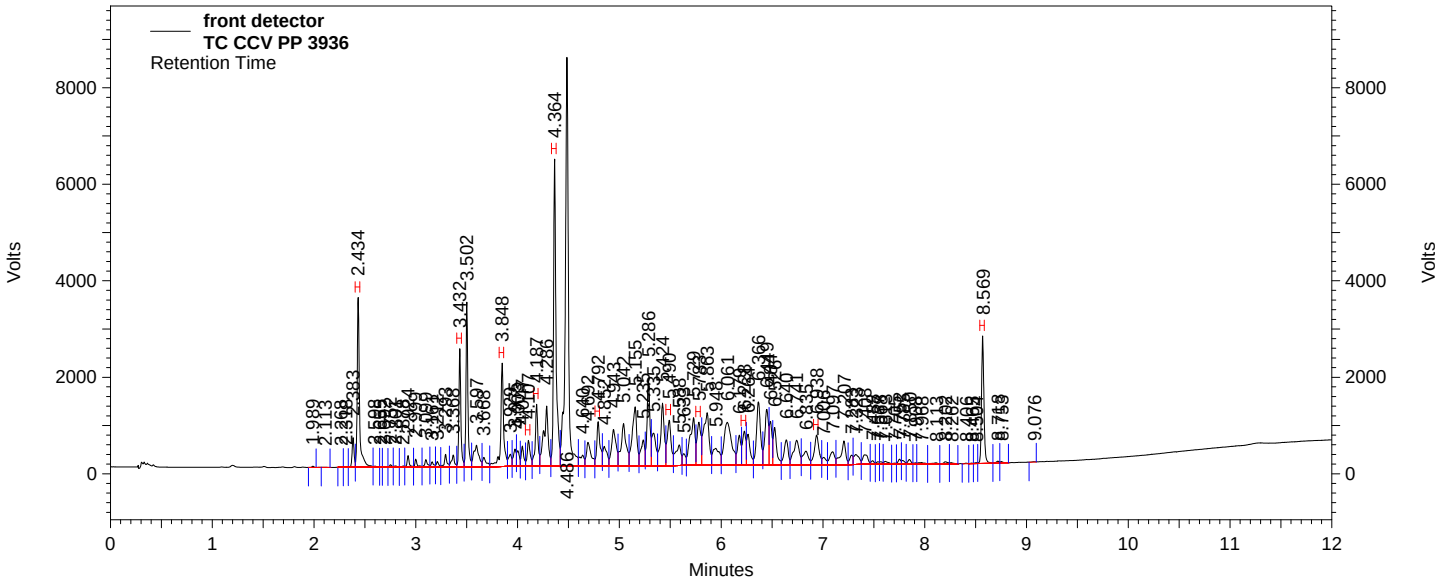
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	63.933	6.555	20.000	Passed
Chlordane #1	0.050	0.052	4.826	20.000	Passed
Chlordane #2	0.050	0.048	4.459	20.000	Passed
Chlordane #3	0.050	0.050	0.818	20.000	Passed
Chlordane #4	0.050	0.052	3.406	20.000	Passed
Chlordane #5	0.050	0.052	4.774	20.000	Passed
Toxaphene #1	0.050	0.050	0.878	20.000	Passed
Toxaphene #2	0.050	0.051	1.702	20.000	Passed
Toxaphene #3	0.050	0.051	2.500	20.000	Passed
Toxaphene #4	0.050	0.050	0.821	20.000	Passed
Toxaphene #5	0.050	0.051	1.475	20.000	Passed
SURRDCBPEST	60.000	57.644	3.927	20.000	Passed
Chlordane	0.250	0.255	1.873	20.000	Passed
Toxaphene	0.250	0.254	1.475	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 11:10:30
Printed: Aug 23,2013 14:40:03

Data Summary: {Data Description}



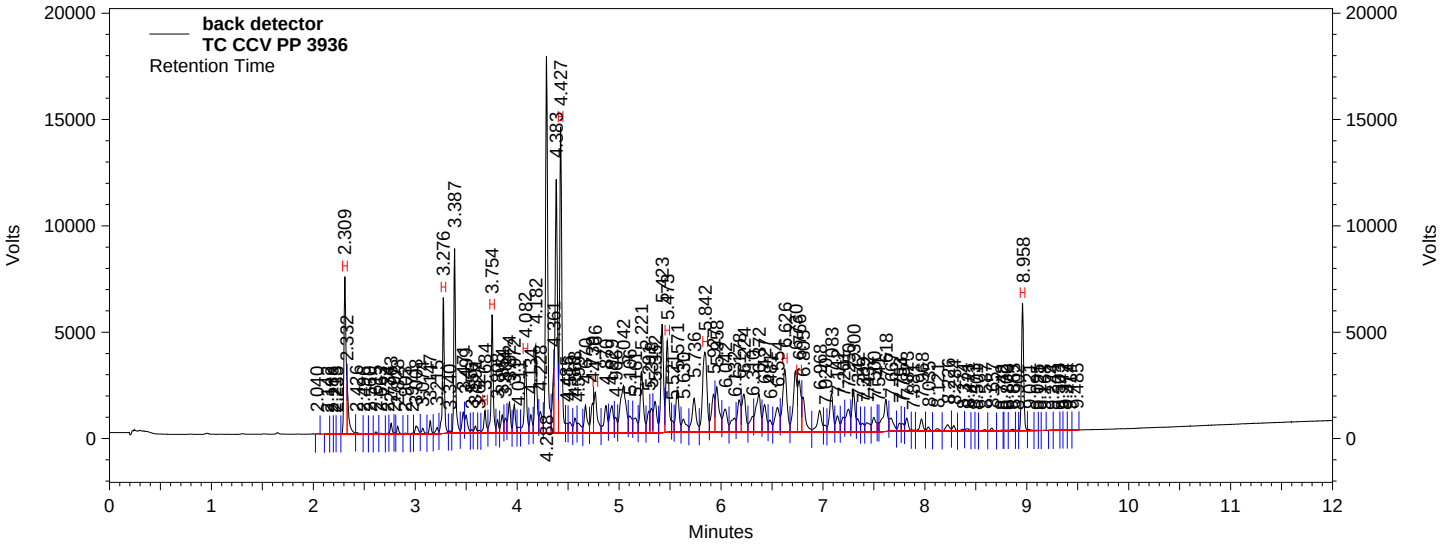
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	42968696	60.4828
Chlordane #1	3.432	24825171	0.0500
Chlordane #2	3.848	32301721	0.0491
Chlordane #3	4.107	8305459	0.0493
Chlordane #4	4.187	18052111	0.0493
Chlordane #5	4.364	84993759	0.0519
Toxaphene #1	4.792	15942412	0.0498
Toxaphene #2	5.490	19627086	0.0506
Toxaphene #3	5.783	18215591	0.0501
Toxaphene #4	6.228	12501383	0.0511
Toxaphene #5	6.938	15038431	0.0519
SURRDCBPEST	8.569	33443066	57.4553
Chlordane		168478221	0.2496
Toxaphene		81324903	0.2535

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 11:10:30
Printed: Aug 23,2013 14:40:03

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	80581813	63.9332
Chlordane #1	3.276	62721167	0.0524
Chlordane #2	3.684	13437095	0.0478
Chlordane #3	3.754	60129766	0.0504
Chlordane #4	4.082	44583265	0.0517
Chlordane #5	4.427	163397884	0.0524
Toxaphene #1	4.766	32803197	0.0504
Toxaphene #2	5.473	65690894	0.0509
Toxaphene #3	5.842	88031772	0.0513
Toxaphene #4	6.626	68123482	0.0504
Toxaphene #5	6.766	41187148	0.0507
SURRDCBPEST	8.958	67278428	57.6438
Chlordane		344269177	0.2547
Toxaphene		295836493	0.2537

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:30

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\015.dat	Pest CCV PP 3935	Aug 23,2013 14:40:30

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	103.045	3.045	20.000	Passed
ALPHABHC	0.040	0.042	4.208	20.000	Passed
LINDANE	0.040	0.042	4.175	20.000	Passed
BETABHC	0.040	0.041	3.240	20.000	Passed
DELTABHC	0.040	0.042	4.794	20.000	Passed
HEPTACHLOR	0.040	0.042	4.550	20.000	Passed
ALDRIN	0.040	0.042	4.239	20.000	Passed
HEPTAEPOX	0.040	0.042	3.845	20.000	Passed
GAMMACHLOR	0.040	0.042	4.167	20.000	Passed
ALPHACHLOR	0.040	0.041	3.572	20.000	Passed
44DDE	0.040	0.042	5.557	20.000	Passed
ENDOI	0.040	0.042	4.277	20.000	Passed
DIELDRIN	0.040	0.042	4.285	20.000	Passed
ENDRIN	0.040	0.043	8.285	20.000	Passed
44DDD	0.040	0.043	6.341	20.000	Passed
ENDOII	0.040	0.042	3.780	20.000	Passed
44DDT	0.040	0.042	6.039	20.000	Passed
ENDRINALDEH	0.040	0.042	4.673	20.000	Passed
METHOXYCL	0.040	0.042	4.547	20.000	Passed
ENDOSULFATE	0.040	0.042	4.773	20.000	Passed
ENDRINKETONE	0.040	0.041	3.069	20.000	Passed
SURRDCBPEST	100.000	102.071	2.071	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	103.244	3.244	20.000	Passed
ALPHABHC	0.040	0.042	5.166	20.000	Passed
LINDANE	0.040	0.042	3.784	20.000	Passed
BETABHC	0.040	0.042	4.701	20.000	Passed
DELTABHC	0.040	0.042	5.809	20.000	Passed
HEPTACHLOR	0.040	0.042	5.094	20.000	Passed
ALDRIN	0.040	0.042	4.710	20.000	Passed
HEPTAEPOX	0.040	0.042	4.353	20.000	Passed
GAMMACHLOR	0.040	0.042	4.634	20.000	Passed
ALPHACHLOR	0.040	0.042	4.546	20.000	Passed
ENDOI	0.040	0.042	4.329	20.000	Passed
44DDE	0.040	0.042	5.260	20.000	Passed
DIELDRIN	0.040	0.042	4.667	20.000	Passed
ENDRIN	0.040	0.043	8.537	20.000	Passed
44DDD	0.040	0.042	6.135	20.000	Passed
ENDOII	0.040	0.042	4.799	20.000	Passed
44DDT	0.040	0.042	5.566	20.000	Passed
ENDRINALDEH	0.040	0.042	5.067	20.000	Passed
ENDOSULFATE	0.040	0.042	4.691	20.000	Passed
METHOXYCL	0.040	0.042	4.639	20.000	Passed

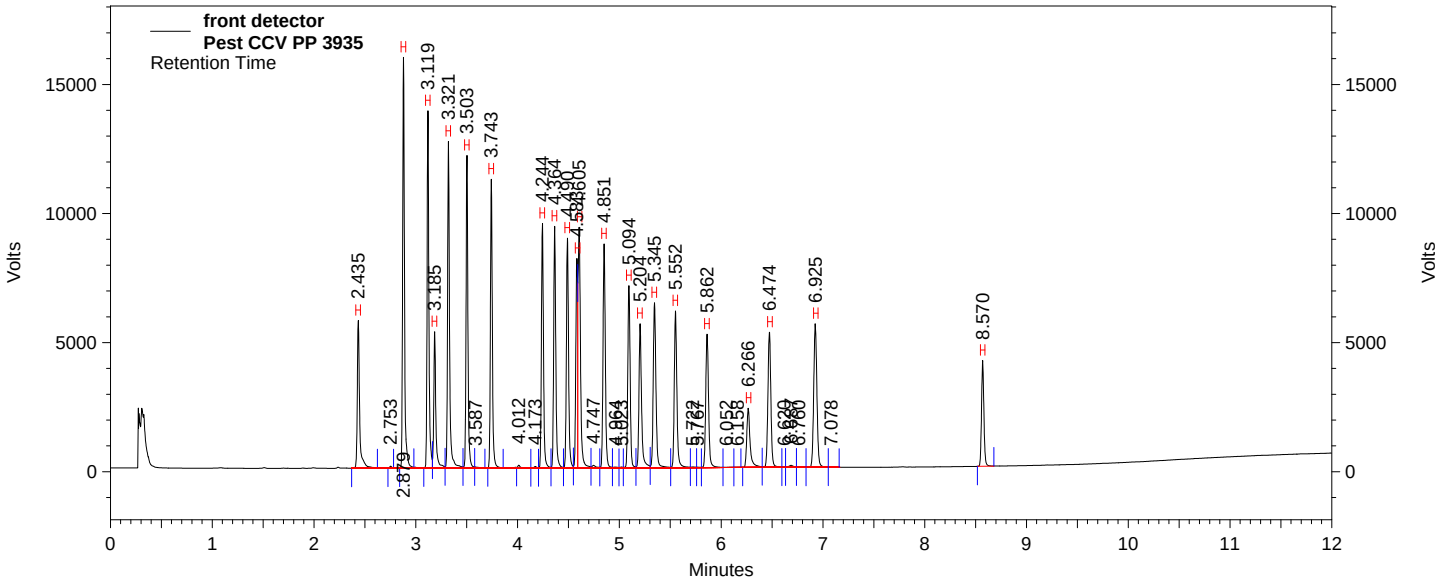
Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:30

ENDRINKETONE	0.040	0.042	4.276	20.000	**Passed**
SURRDCBPEST	100.000	102.567	2.567	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\015.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 14:22:51
Printed: Aug 23,2013 14:40:28

Data Summary: {Data Description}



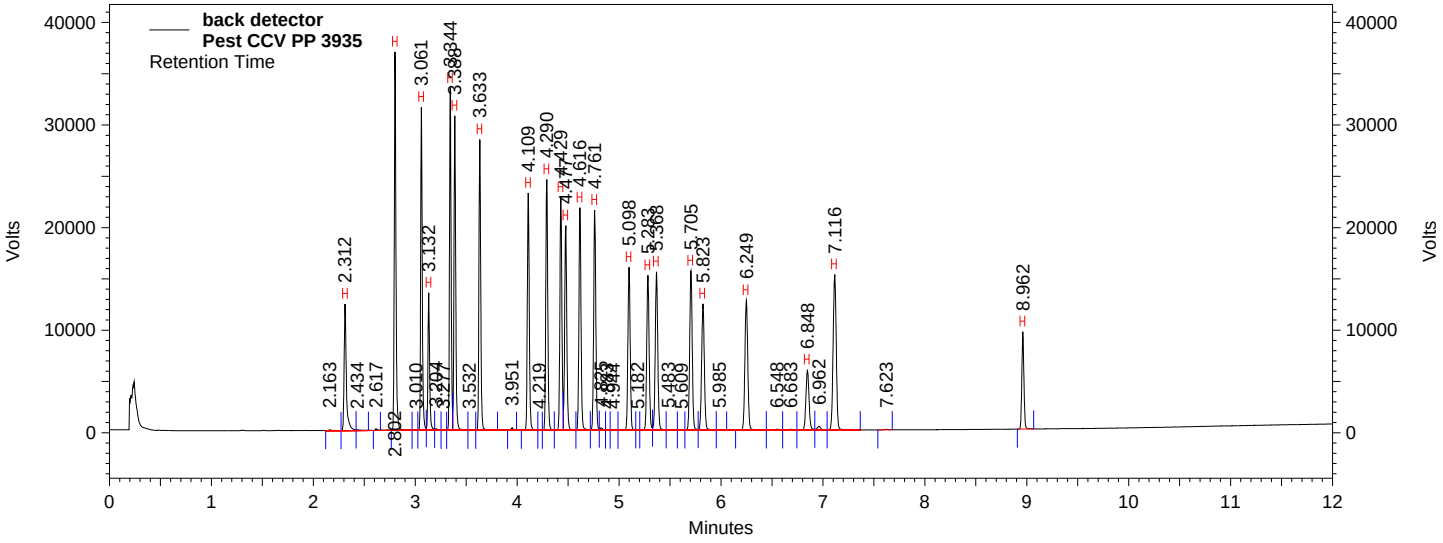
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.435	70093435	103.0450
ALPHABHC	2.879	151846846	0.0417
LINDANE	3.119	130478921	0.0417
BETABHC	3.185	56738162	0.0413
DELTABHC	3.321	131429143	0.0419
HEPTACHLOR	3.503	118714725	0.0418
ALDRIN	3.743	112175661	0.0417
HEPTAEPOX	4.244	101118994	0.0415
GAMMACHLOR	4.364	102653903	0.0417
ALPHACHLOR	4.490	99912858	0.0414
44DDE	4.583	75839722	0.0422
ENDOI	4.605	118434258	0.0417
DIELDRIN	4.851	104070033	0.0417
ENDRIN	5.094	84641894	0.0433
44DDD	5.204	75585146	0.0425
ENDOII	5.345	90333226	0.0415
44DDT	5.552	82942356	0.0424
ENDRINALDEH	5.862	77205214	0.0419
METHOXYCL	6.266	40698406	0.0418
ENDOSULFATE	6.474	82474029	0.0419
ENDRINKETONE	6.925	93696154	0.0412
SURRDCBPEST	8.570	51652246	102.0707

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\015.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 14:22:51
Printed: Aug 23,2013 14:40:28

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.312	143911080	103.2439
ALPHABHC	2.802	324142367	0.0421
LINDANE	3.061	269054973	0.0415
BETABHC	3.132	118062984	0.0419
DELTABHC	3.344	280750262	0.0423
HEPTACHLOR	3.388	277357302	0.0420
ALDRIN	3.633	264638396	0.0419
HEPTAEPOX	4.109	233107958	0.0417
GAMMACHLOR	4.290	249800529	0.0419
ALPHACHLOR	4.429	237688540	0.0418
ENDOI	4.477	223171735	0.0417
44DDE	4.616	238057150	0.0421
DIELDRIN	4.761	242735313	0.0419
ENDRIN	5.098	190421965	0.0434
44DDD	5.283	188678548	0.0425
ENDOII	5.368	205423211	0.0419
44DDT	5.705	205460909	0.0422
ENDRINALDEH	5.823	178373245	0.0420
ENDOSULFATE	6.249	193828759	0.0419
METHOXYCL	6.848	94591721	0.0419
ENDRINKETONE	7.116	247993633	0.0417
SURRDCBPEST	8.962	103525068	102.5667

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:52:23

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\016.dat	TC CCV PP 3936	Aug 23,2013 14:52:23

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	60.622	1.037	20.000	Passed
Chlordane #1	0.050	0.050	0.030	20.000	Passed
Chlordane #2	0.050	0.048	3.707	20.000	Passed
Chlordane #3	0.050	0.049	1.332	20.000	Passed
Chlordane #4	0.050	0.050	0.504	20.000	Passed
Chlordane #5	0.050	0.052	4.745	20.000	Passed
Toxaphene #1	0.050	0.051	2.367	20.000	Passed
Toxaphene #2	0.050	0.051	1.002	20.000	Passed
Toxaphene #3	0.050	0.053	5.572	20.000	Passed
Toxaphene #4	0.050	0.053	6.050	20.000	Passed
Toxaphene #5	0.050	0.053	6.487	20.000	Passed
SURRDCBPEST	60.000	59.163	1.394	20.000	Passed
Chlordane	0.250	0.250	0.153	20.000	Passed
Toxaphene	0.250	0.261	4.296	20.000	Passed

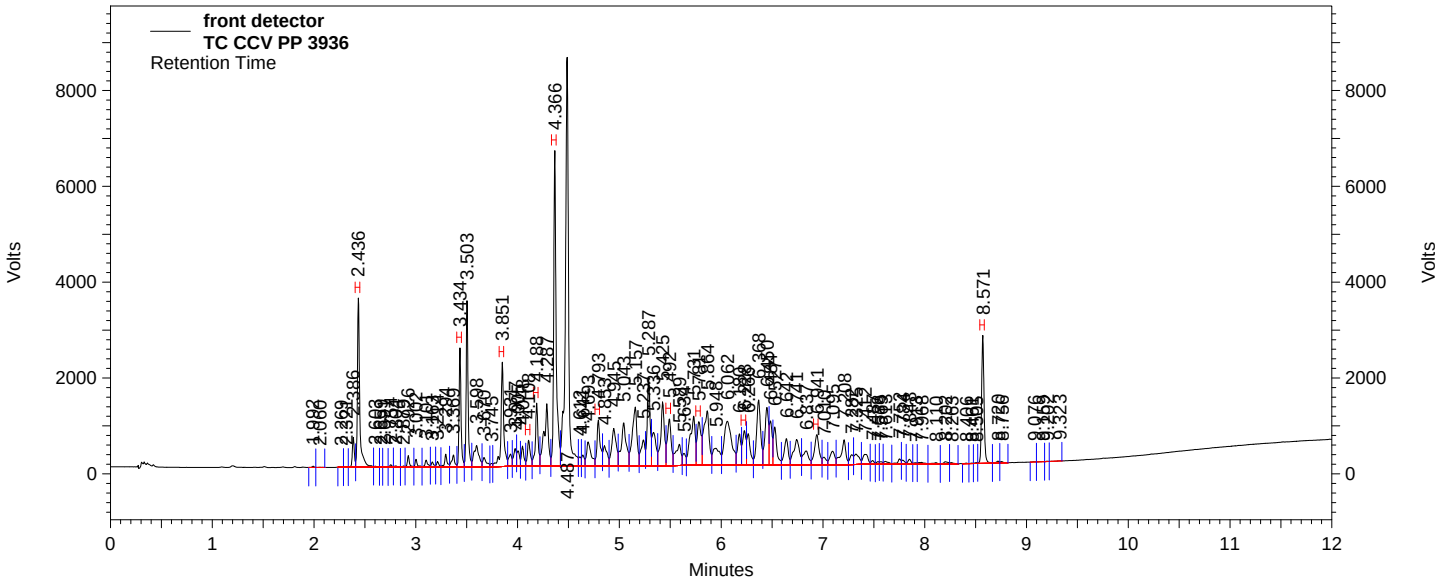
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	63.836	6.393	20.000	Passed
Chlordane #1	0.050	0.053	5.157	20.000	Passed
Chlordane #2	0.050	0.048	4.142	20.000	Passed
Chlordane #3	0.050	0.051	1.334	20.000	Passed
Chlordane #4	0.050	0.052	3.945	20.000	Passed
Chlordane #5	0.050	0.052	4.839	20.000	Passed
Toxaphene #1	0.050	0.053	5.112	20.000	Passed
Toxaphene #2	0.050	0.051	2.415	20.000	Passed
Toxaphene #3	0.050	0.053	5.256	20.000	Passed
Toxaphene #4	0.050	0.052	3.567	20.000	Passed
Toxaphene #5	0.050	0.053	5.032	20.000	Passed
SURRDCBPEST	60.000	59.319	1.136	20.000	Passed
Chlordane	0.250	0.256	2.227	20.000	Passed
Toxaphene	0.250	0.261	4.276	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\016.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 14:39:29
Printed: Aug 23,2013 14:52:20

Data Summary: {Data Description}



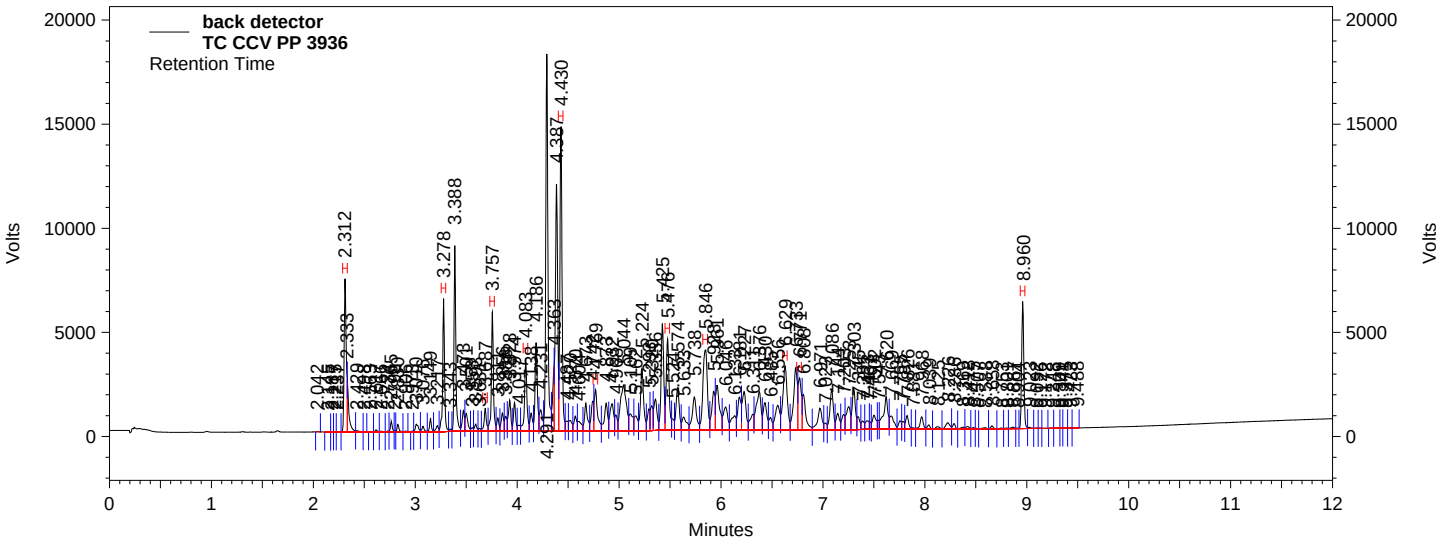
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.436	43067836	60.6223
Chlordane #1	3.434	24824155	0.0500
Chlordane #2	3.851	31697431	0.0481
Chlordane #3	4.108	8310725	0.0493
Chlordane #4	4.188	18218867	0.0497
Chlordane #5	4.366	85773407	0.0524
Toxaphene #1	4.793	16397852	0.0512
Toxaphene #2	5.492	19607432	0.0505
Toxaphene #3	5.781	19185398	0.0528
Toxaphene #4	6.228	12963334	0.0530
Toxaphene #5	6.941	15420262	0.0532
SURRDCBPEST	8.571	34437290	59.1634
Chlordane		168824585	0.2496
Toxaphene		83574278	0.2607

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\016.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 14:39:29
Printed: Aug 23,2013 14:52:20

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.312	80458871	63.8357
Chlordane #1	3.278	62919069	0.0526
Chlordane #2	3.687	13481768	0.0479
Chlordane #3	3.757	60437336	0.0507
Chlordane #4	4.083	44815469	0.0520
Chlordane #5	4.430	163499145	0.0524
Toxaphene #1	4.769	34180132	0.0526
Toxaphene #2	5.476	66151615	0.0512
Toxaphene #3	5.846	90398392	0.0526
Toxaphene #4	6.629	69978750	0.0518
Toxaphene #5	6.771	42630641	0.0525
SURRDCBPEST	8.960	69233171	59.3186
Chlordane		345152787	0.2556
Toxaphene		303339530	0.2607

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:40:41

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\025.dat	Pest CCV PP 3935	Aug 24,2013 21:40:41

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	104.133	4.133	20.000	Passed
ALPHABHC	0.040	0.043	7.054	20.000	Passed
LINDANE	0.040	0.043	6.564	20.000	Passed
BETABHC	0.040	0.043	7.039	20.000	Passed
DELTABHC	0.040	0.044	8.766	20.000	Passed
HEPTACHLOR	0.040	0.043	7.592	20.000	Passed
ALDRIN	0.040	0.043	6.890	20.000	Passed
HEPTAEPOX	0.040	0.043	6.828	20.000	Passed
GAMMACHLOR	0.040	0.043	6.994	20.000	Passed
ALPHACHLOR	0.040	0.043	6.453	20.000	Passed
44DDE	0.040	0.046	15.887	20.000	Passed
ENDOI	0.040	0.042	4.051	20.000	Passed
DIELDRIN	0.040	0.043	7.559	20.000	Passed
ENDRIN	0.040	0.046	15.433	20.000	Passed
44DDD	0.040	0.046	14.465	20.000	Passed
ENDOII	0.040	0.043	7.878	20.000	Passed
44DDT	0.040	0.045	12.928	20.000	Passed
ENDRINALDEH	0.040	0.044	9.444	20.000	Passed
METHOXYCL	0.040	0.047	16.455	20.000	Passed
ENDOSULFATE	0.040	0.044	10.751	20.000	Passed
ENDRINKETONE	0.040	0.044	9.804	20.000	Passed
SURRDCBPEST	100.000	116.905	16.905	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	106.500	6.500	20.000	Passed
ALPHABHC	0.040	0.043	7.194	20.000	Passed
LINDANE	0.040	0.042	4.974	20.000	Passed
BETABHC	0.040	0.043	7.392	20.000	Passed
DELTABHC	0.040	0.043	8.031	20.000	Passed
HEPTACHLOR	0.040	0.043	6.960	20.000	Passed
ALDRIN	0.040	0.043	6.681	20.000	Passed
HEPTAEPOX	0.040	0.043	7.009	20.000	Passed
GAMMACHLOR	0.040	0.043	7.215	20.000	Passed
ALPHACHLOR	0.040	0.043	7.127	20.000	Passed
ENDOI	0.040	0.043	7.088	20.000	Passed
44DDE	0.040	0.044	9.111	20.000	Passed
DIELDRIN	0.040	0.043	7.946	20.000	Passed
ENDRIN	0.040	0.046	15.777	20.000	Passed
44DDD	0.040	0.045	13.005	20.000	Passed
ENDOII	0.040	0.044	9.184	20.000	Passed
44DDT	0.040	0.045	11.565	20.000	Passed
ENDRINALDEH	0.040	0.044	9.971	20.000	Passed
ENDOSULFATE	0.040	0.044	10.361	20.000	Passed
METHOXYCL	0.040	0.046	15.205	20.000	Passed

QC Check Standard Report

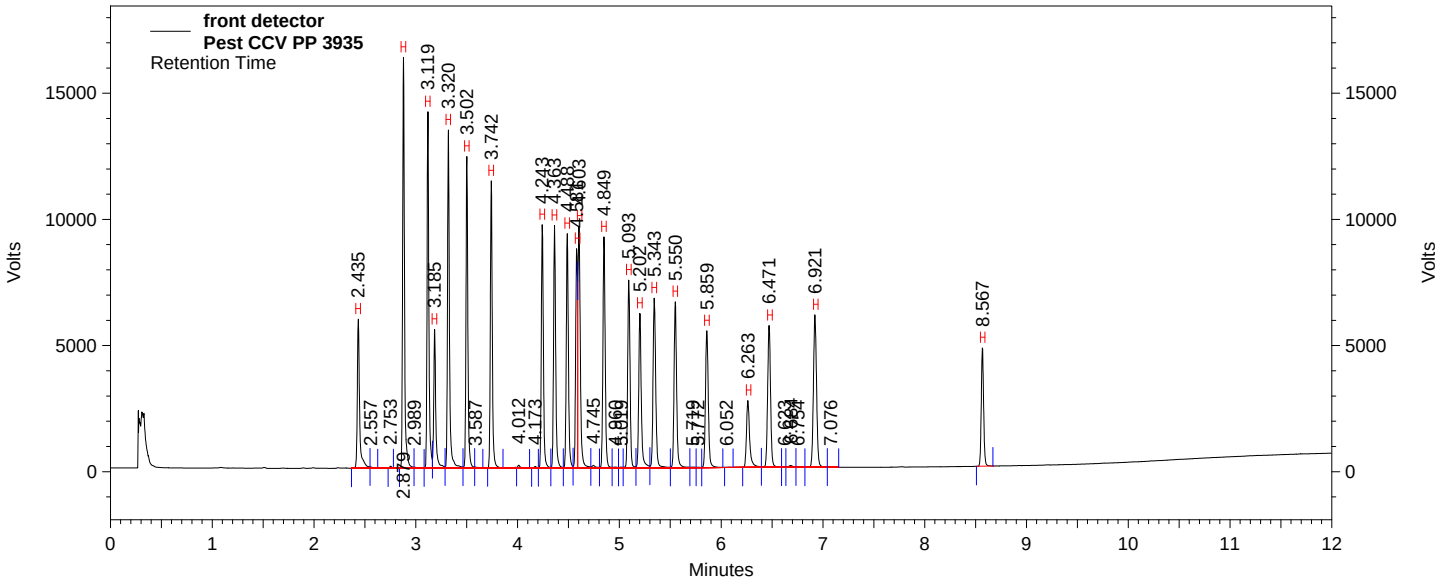
Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:40:41

ENDRINKETONE	0.040	0.044	9.438	20.000	**Passed**
SURRDCBPEST	100.000	116.534	16.534	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\025.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 17:09:35
Printed: Aug 24,2013 21:40:35

Data Summary: {Data Description}



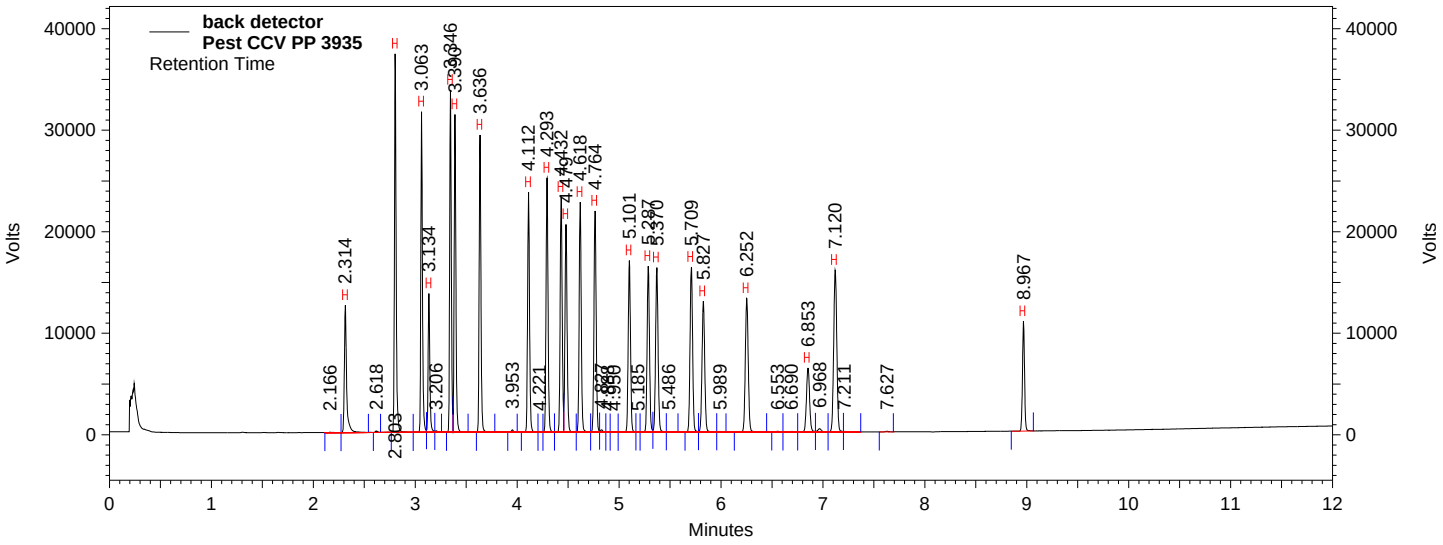
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.435	70835344	104.1332
ALPHABHC	2.879	156171267	0.0428
LINDANE	3.119	133574988	0.0426
BETABHC	3.185	58790754	0.0428
DELTABHC	3.320	136646217	0.0435
HEPTACHLOR	3.502	122211015	0.0430
ALDRIN	3.742	115111704	0.0428
HEPTAEPOX	4.243	104054114	0.0427
GAMMACHLOR	4.363	105531570	0.0428
ALPHACHLOR	4.488	102755893	0.0426
44DDE	4.581	83518744	0.0464
ENDOI	4.603	118170471	0.0416
DIELDRIN	4.849	107459960	0.0430
ENDRIN	5.093	90007272	0.0462
44DDD	5.202	81601506	0.0458
ENDOII	5.343	93889520	0.0432
44DDT	5.550	88511776	0.0452
ENDRINALDEH	5.859	80793080	0.0438
METHOXYCL	6.263	45033150	0.0466
ENDOSULFATE	6.471	87134363	0.0443
ENDRINKETONE	6.921	100108040	0.0439
SURRDCBPEST	8.567	58410033	116.9049

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\025.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 17:09:35
Printed: Aug 24,2013 21:40:35

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.314	148536544	106.4995
ALPHABHC	2.803	330681607	0.0429
LINDANE	3.063	272227909	0.0420
BETABHC	3.134	121122334	0.0430
DELTABHC	3.346	286910405	0.0432
HEPTACHLOR	3.390	282264911	0.0428
ALDRIN	3.636	269691491	0.0427
HEPTAEPOX	4.112	238951464	0.0428
GAMMACHLOR	4.293	256128070	0.0429
ALPHACHLOR	4.432	243669080	0.0429
ENDOI	4.479	228986473	0.0428
44DDE	4.618	246920900	0.0436
DIELDRIN	4.764	250369642	0.0432
ENDRIN	5.101	202132062	0.0463
44DDD	5.287	200974526	0.0452
ENDOII	5.370	213846573	0.0437
44DDT	5.709	217278368	0.0446
ENDRINALDEH	5.827	186630990	0.0440
ENDOSULFATE	6.252	204021685	0.0441
METHOXYCL	6.853	103369916	0.0461
ENDRINKETONE	7.120	259665323	0.0438
SURRDCBPEST	8.967	116717808	116.5341

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:40:49

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\026.dat	TC CCV PP 3936	Aug 24,2013 21:40:49

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	61.287	2.146	20.000	Passed
Chlordane #1	0.050	0.051	1.273	20.000	Passed
Chlordane #2	0.050	0.050	0.033	20.000	Passed
Chlordane #3	0.050	0.050	0.190	20.000	Passed
Chlordane #4	0.050	0.050	0.213	20.000	Passed
Chlordane #5	0.050	0.053	5.635	20.000	Passed
Toxaphene #1	0.050	0.051	2.509	20.000	Passed
Toxaphene #2	0.050	0.052	4.158	20.000	Passed
Toxaphene #3	0.050	0.050	0.098	20.000	Passed
Toxaphene #4	0.050	0.053	6.773	20.000	Passed
Toxaphene #5	0.050	0.054	8.479	20.000	Passed
SURRDCBPEST	60.000	60.475	0.791	20.000	Passed
Chlordane	0.250	0.253	1.393	20.000	Passed
Toxaphene	0.250	0.261	4.364	20.000	Passed

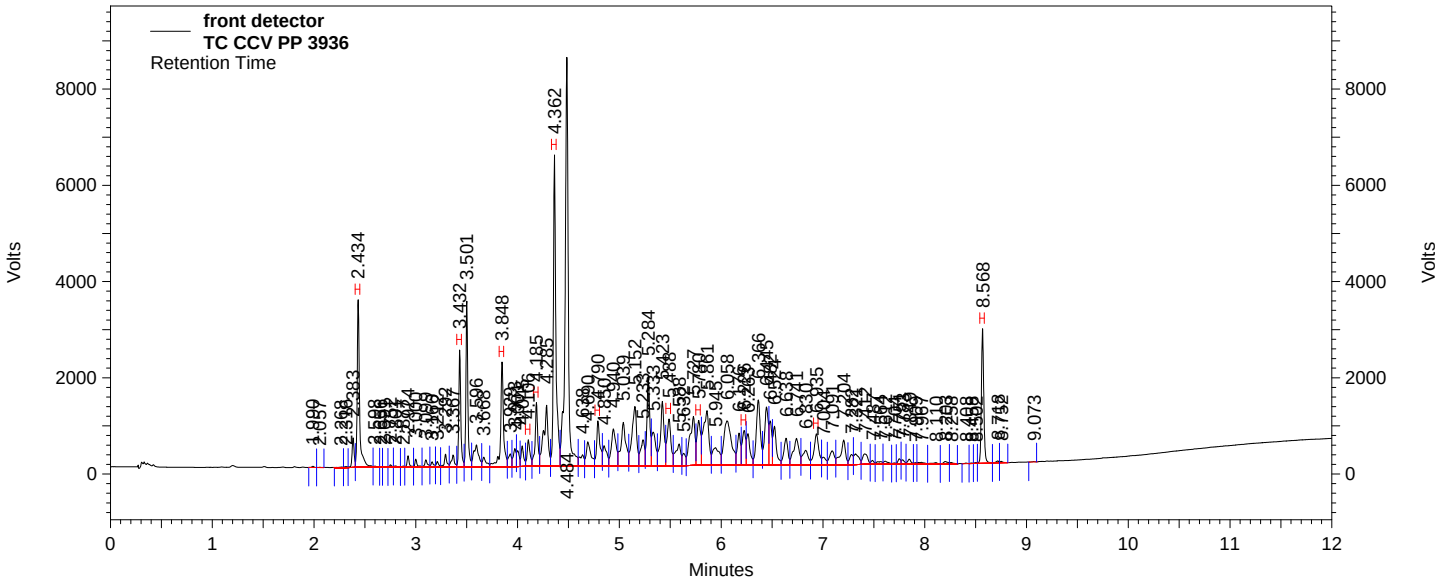
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	65.245	8.742	20.000	Passed
Chlordane #1	0.050	0.053	6.493	20.000	Passed
Chlordane #2	0.050	0.049	2.978	20.000	Passed
Chlordane #3	0.050	0.052	3.029	20.000	Passed
Chlordane #4	0.050	0.052	4.993	20.000	Passed
Chlordane #5	0.050	0.053	6.359	20.000	Passed
Toxaphene #1	0.050	0.053	6.545	20.000	Passed
Toxaphene #2	0.050	0.051	2.472	20.000	Passed
Toxaphene #3	0.050	0.053	5.865	20.000	Passed
Toxaphene #4	0.050	0.052	4.732	20.000	Passed
Toxaphene #5	0.050	0.053	5.316	20.000	Passed
SURRDCBPEST	60.000	60.593	0.989	20.000	Passed
Chlordane	0.250	0.259	3.579	20.000	Passed
Toxaphene	0.250	0.262	4.986	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\026.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 17:26:17
Printed: Aug 24,2013 21:40:47

Data Summary: {Data Description}



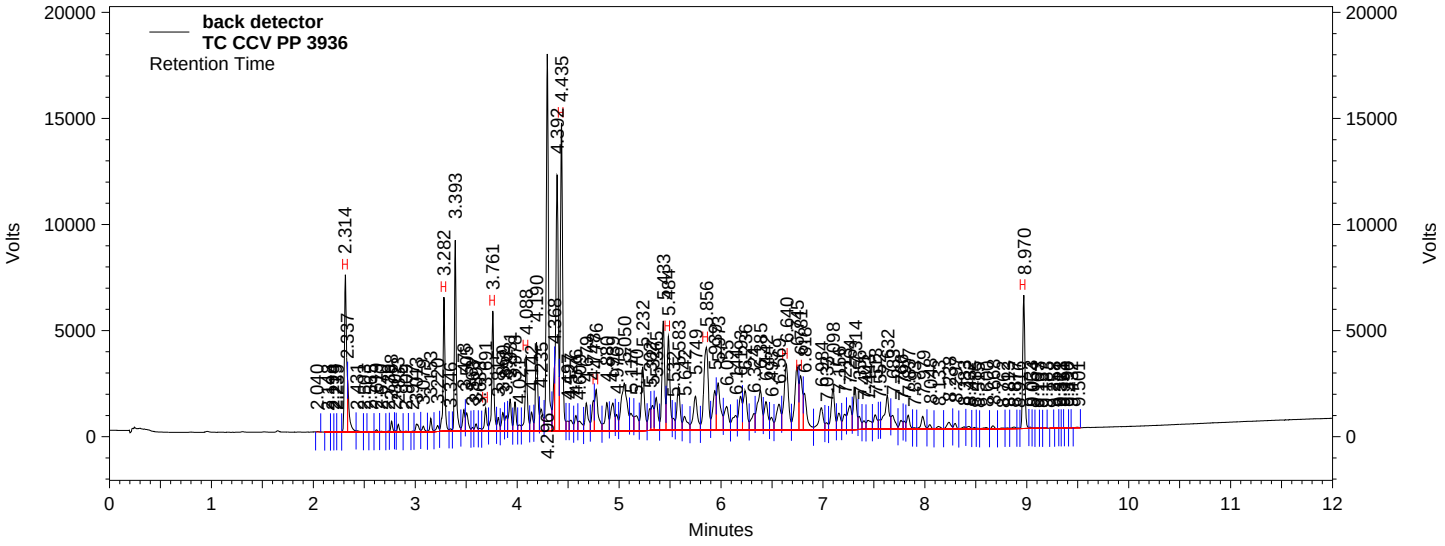
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	43540295	61.2874
Chlordane #1	3.432	25132658	0.0506
Chlordane #2	3.848	32928296	0.0500
Chlordane #3	4.106	8406929	0.0499
Chlordane #4	4.185	18350164	0.0501
Chlordane #5	4.362	86501901	0.0528
Toxaphene #1	4.790	16420569	0.0513
Toxaphene #2	5.488	20220000	0.0521
Toxaphene #3	5.780	18155018	0.0500
Toxaphene #4	6.226	13051668	0.0534
Toxaphene #5	6.935	15708798	0.0542
SURRDCBPEST	8.568	35200620	60.4748
Chlordane		171319948	0.2535
Toxaphene		83556053	0.2609

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\026.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 17:26:17
Printed: Aug 24,2013 21:40:47

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.314	82235459	65.2452
Chlordane #1	3.282	63718556	0.0532
Chlordane #2	3.691	13645392	0.0485
Chlordane #3	3.761	61448700	0.0515
Chlordane #4	4.088	45267338	0.0525
Chlordane #5	4.435	165868764	0.0532
Toxaphene #1	4.776	34646022	0.0533
Toxaphene #2	5.484	66188054	0.0512
Toxaphene #3	5.856	90921340	0.0529
Toxaphene #4	6.640	70766352	0.0524
Toxaphene #5	6.781	42746094	0.0527
SURRDCBPEST	8.970	70720741	60.5932
Chlordane		349948750	0.2589
Toxaphene		305267862	0.2625

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:51:53

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\034.dat	Pest CCV PP 3935	Aug 24,2013 21:51:53

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	104.719	4.719	20.000	Passed
ALPHABHC	0.040	0.043	8.096	20.000	Passed
LINDANE	0.040	0.043	7.310	20.000	Passed
BETABHC	0.040	0.043	7.988	20.000	Passed
DELTABHC	0.040	0.044	10.127	20.000	Passed
HEPTACHLOR	0.040	0.043	7.210	20.000	Passed
ALDRIN	0.040	0.043	7.041	20.000	Passed
HEPTAEPOX	0.040	0.043	7.053	20.000	Passed
GAMMACHLOR	0.040	0.043	7.216	20.000	Passed
ALPHACHLOR	0.040	0.043	6.504	20.000	Passed
44DDE	0.040	0.045	13.712	20.000	Passed
ENDOI	0.040	0.042	6.190	20.000	Passed
DIELDRIN	0.040	0.043	7.627	20.000	Passed
ENDRIN	0.040	0.048	18.919	20.000	Passed
44DDD	0.040	0.046	15.746	20.000	Passed
ENDOII	0.040	0.043	7.972	20.000	Passed
44DDT	0.040	0.045	12.674	20.000	Passed
ENDRINALDEH	0.040	0.044	9.048	20.000	Passed
METHOXYCL	0.040	0.046	15.976	20.000	Passed
ENDOSULFATE	0.040	0.045	11.506	20.000	Passed
ENDRINKETONE	0.040	0.044	9.456	20.000	Passed
SURRDCBPEST	100.000	118.462	18.462	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	107.084	7.084	20.000	Passed
ALPHABHC	0.040	0.043	8.376	20.000	Passed
LINDANE	0.040	0.042	3.763	20.000	Passed
BETABHC	0.040	0.043	8.715	20.000	Passed
DELTABHC	0.040	0.042	5.722	20.000	Passed
HEPTACHLOR	0.040	0.042	5.706	20.000	Passed
ALDRIN	0.040	0.043	7.254	20.000	Passed
HEPTAEPOX	0.040	0.043	7.444	20.000	Passed
GAMMACHLOR	0.040	0.043	7.581	20.000	Passed
ALPHACHLOR	0.040	0.043	7.700	20.000	Passed
ENDOI	0.040	0.043	7.872	20.000	Passed
44DDE	0.040	0.044	10.029	20.000	Passed
DIELDRIN	0.040	0.043	8.516	20.000	Passed
ENDRIN	0.040	0.048	19.578	20.000	Passed
44DDD	0.040	0.046	14.228	20.000	Passed
ENDOII	0.040	0.044	10.056	20.000	Passed
44DDT	0.040	0.044	10.644	20.000	Passed
ENDRINALDEH	0.040	0.044	9.911	20.000	Passed
ENDOSULFATE	0.040	0.044	10.928	20.000	Passed
METHOXYCL	0.040	0.046	14.322	20.000	Passed

QC Check Standard Report

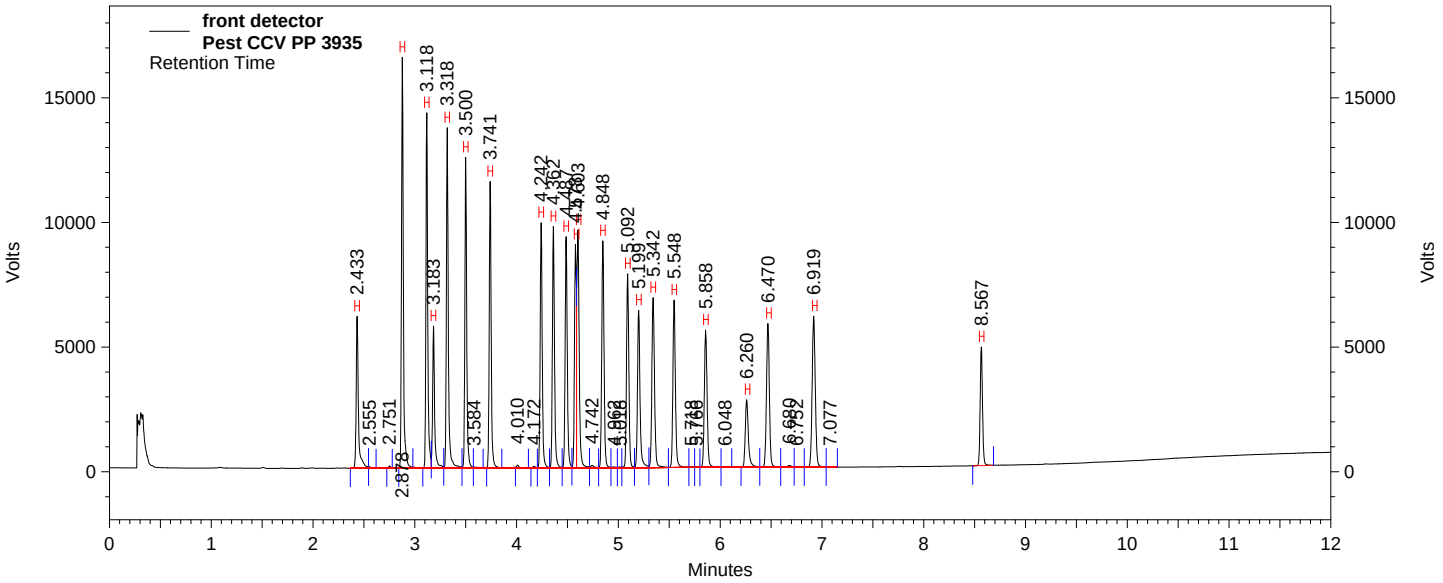
Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:51:53

ENDRINKETONE	0.040	0.044	9.302	20.000	**Passed**
SURRDCBPEST	100.000	117.932	17.932	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\034.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 19:39:35
Printed: Aug 24,2013 21:51:52

Data Summary: {Data Description}



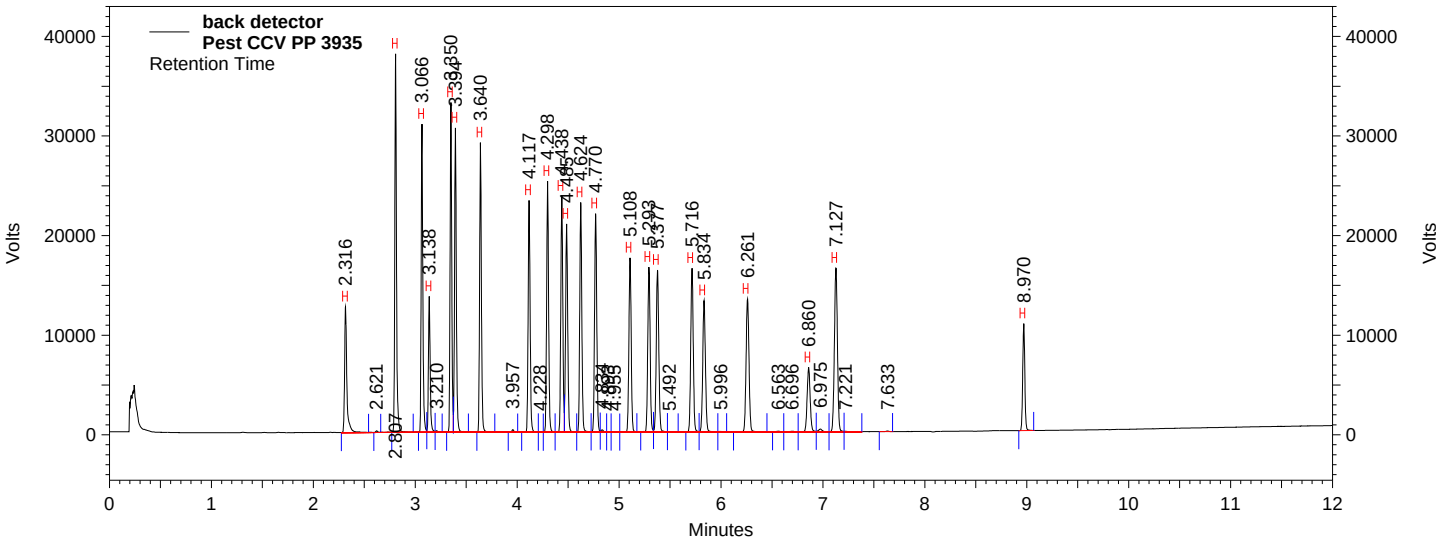
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	71234712	104.7189
ALPHABHC	2.878	157756336	0.0432
LINDANE	3.118	134542477	0.0429
BETABHC	3.183	59303311	0.0432
DELTABHC	3.318	138438895	0.0441
HEPTACHLOR	3.500	121771506	0.0429
ALDRIN	3.741	115278486	0.0428
HEPTAEPOX	4.242	104275824	0.0428
GAMMACHLOR	4.362	105756864	0.0429
ALPHACHLOR	4.487	102806077	0.0426
44DDE	4.578	81898233	0.0455
ENDOI	4.603	120664084	0.0425
DIELDRIN	4.848	107530639	0.0431
ENDRIN	5.092	92613434	0.0476
44DDD	5.199	82552564	0.0463
ENDOII	5.342	93970460	0.0432
44DDT	5.548	88305697	0.0451
ENDRINALDEH	5.858	80495629	0.0436
METHOXYCL	6.260	44860055	0.0464
ENDOSULFATE	6.470	87722660	0.0446
ENDRINKETONE	6.919	99775683	0.0438
SURRDCBPEST	8.567	59108890	118.4622

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\034.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: Pest CCV PP 3935
Acquired: Aug 23,2013 19:39:35
Printed: Aug 24,2013 21:51:52

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.316	149367820	107.0842
ALPHABHC	2.807	334495344	0.0434
LINDANE	3.066	269000574	0.0415
BETABHC	3.138	122627428	0.0435
DELTABHC	3.350	280511304	0.0423
HEPTACHLOR	3.394	278966614	0.0423
ALDRIN	3.640	271161058	0.0429
HEPTAEPOX	4.117	239907673	0.0430
GAMMACHLOR	4.298	257026204	0.0430
ALPHACHLOR	4.438	244997396	0.0431
ENDOI	4.485	230636746	0.0431
44DDE	4.624	249035658	0.0440
DIELDRIN	4.770	251696189	0.0434
ENDRIN	5.108	208227659	0.0478
44DDD	5.293	203164803	0.0457
ENDOII	5.377	215520756	0.0440
44DDT	5.716	215463842	0.0443
ENDRINALDEH	5.834	186530123	0.0440
ENDOSULFATE	6.261	205039349	0.0444
METHOXYCL	6.860	102641759	0.0457
ENDRINKETONE	7.127	259360718	0.0437
SURRDCBPEST	8.970	118027571	117.9323

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:51:59

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\035.dat	TC CCV PP 3936	Aug 24,2013 21:51:59

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	62.344	3.906	20.000	Passed
Chlordane #1	0.050	0.052	3.554	20.000	Passed
Chlordane #2	0.050	0.051	2.256	20.000	Passed
Chlordane #3	0.050	0.051	1.869	20.000	Passed
Chlordane #4	0.050	0.052	3.013	20.000	Passed
Chlordane #5	0.050	0.054	8.616	20.000	Passed
Toxaphene #1	0.050	0.053	5.245	20.000	Passed
Toxaphene #2	0.050	0.052	4.825	20.000	Passed
Toxaphene #3	0.050	0.052	4.869	20.000	Passed
Toxaphene #4	0.050	0.053	6.857	20.000	Passed
Toxaphene #5	0.050	0.056	11.648	20.000	Passed
SURRDCBPEST	60.000	64.751	7.919	20.000	Passed
Chlordane	0.250	0.260	3.862	20.000	Passed
Toxaphene	0.250	0.267	6.689	20.000	Passed

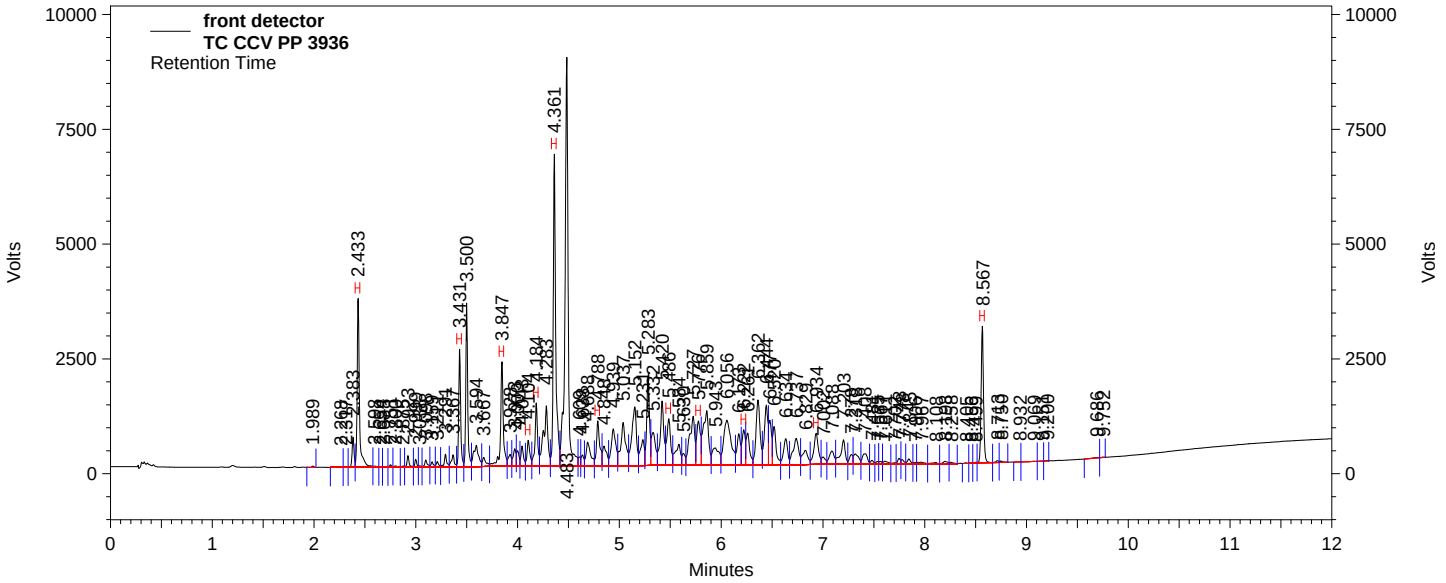
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	66.991	11.652	20.000	Passed
Chlordane #1	0.050	0.054	8.928	20.000	Passed
Chlordane #2	0.050	0.049	1.572	20.000	Passed
Chlordane #3	0.050	0.053	5.188	20.000	Passed
Chlordane #4	0.050	0.053	6.670	20.000	Passed
Chlordane #5	0.050	0.055	9.502	20.000	Passed
Toxaphene #1	0.050	0.054	8.002	20.000	Passed
Toxaphene #2	0.050	0.054	8.781	20.000	Passed
Toxaphene #3	0.050	0.055	9.930	20.000	Passed
Toxaphene #4	0.050	0.054	7.783	20.000	Passed
Toxaphene #5	0.050	0.054	8.796	20.000	Passed
SURRDCBPEST	60.000	65.179	8.632	20.000	Passed
Chlordane	0.250	0.264	5.743	20.000	Passed
Toxaphene	0.250	0.272	8.658	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\035.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 19:56:18
Printed: Aug 24,2013 21:51:57

Data Summary: {Data Description}



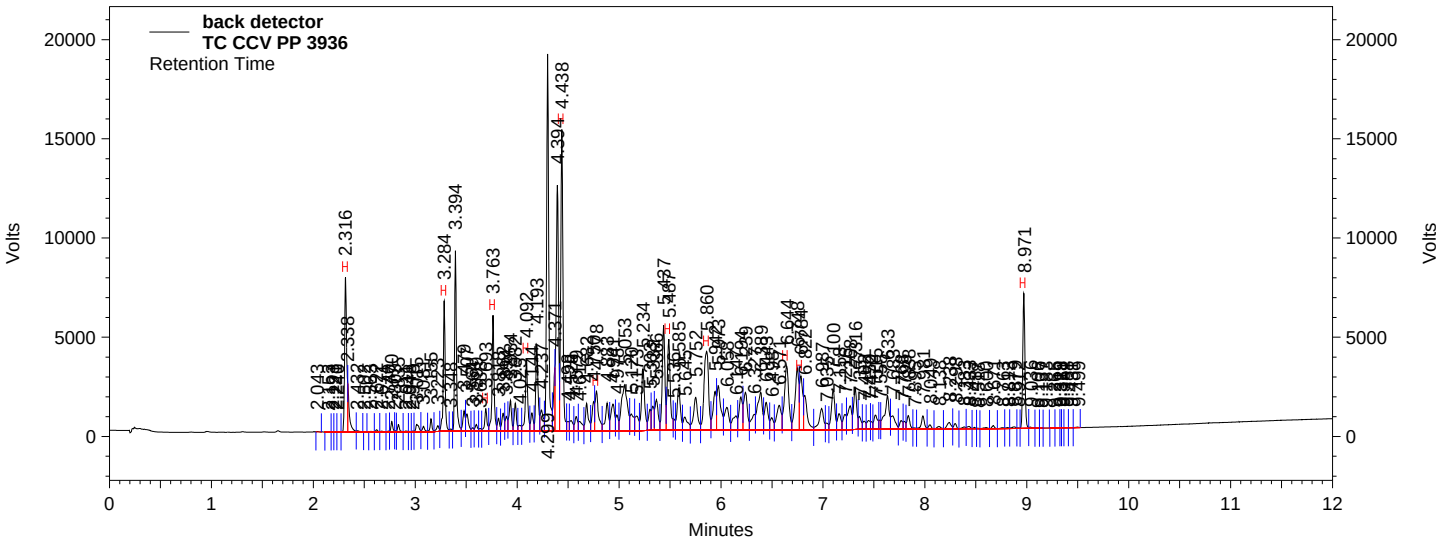
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	44290801	62.3438
Chlordane #1	3.431	25698628	0.0518
Chlordane #2	3.847	33660239	0.0511
Chlordane #3	4.104	8580394	0.0509
Chlordane #4	4.184	18862827	0.0515
Chlordane #5	4.361	88943068	0.0543
Toxaphene #1	4.788	16858842	0.0526
Toxaphene #2	5.486	20349471	0.0524
Toxaphene #3	5.776	19057713	0.0524
Toxaphene #4	6.222	13061910	0.0534
Toxaphene #5	6.934	16167651	0.0558
SURRDCBPEST	8.567	37689867	64.7513
Chlordane		175745156	0.2597
Toxaphene		85495587	0.2667

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\035.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC CCV PP 3936
Acquired: Aug 23,2013 19:56:18
Printed: Aug 24,2013 21:51:57

Data Summary: {Data Description}



back detector Results

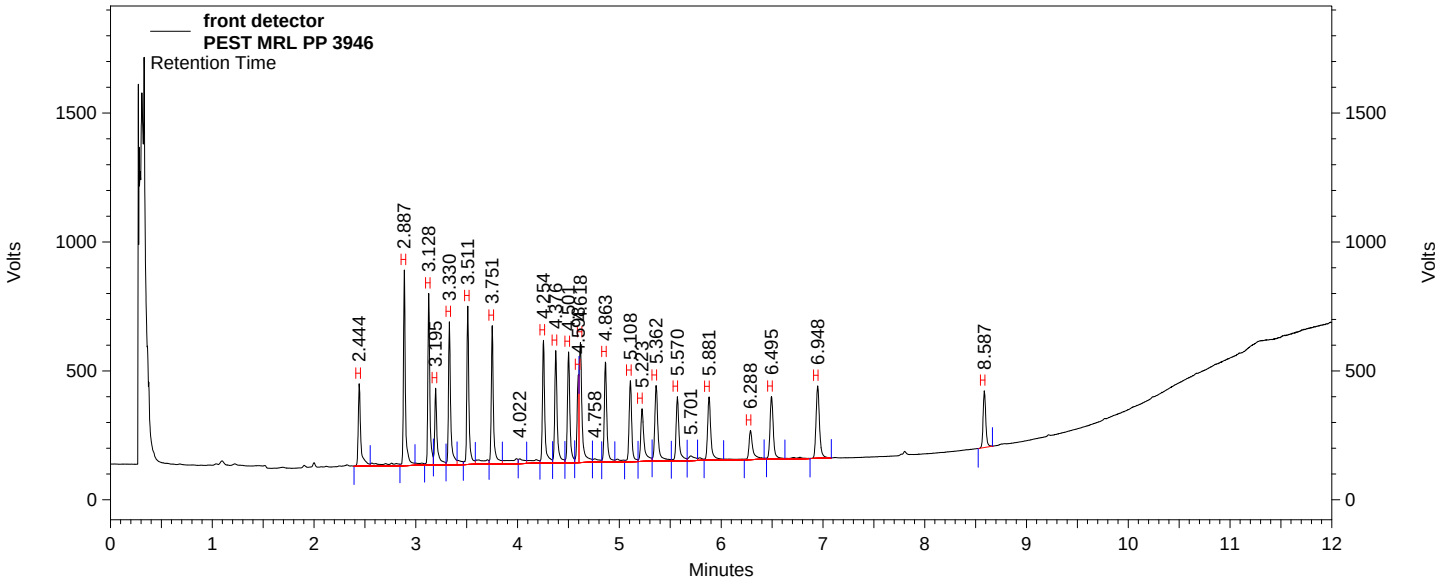
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.316	84435847	66.9910
Chlordane #1	3.284	65175437	0.0545
Chlordane #2	3.693	13843197	0.0492
Chlordane #3	3.763	62736282	0.0526
Chlordane #4	4.092	45990539	0.0533
Chlordane #5	4.438	170771233	0.0548
Toxaphene #1	4.778	35119890	0.0540
Toxaphene #2	5.487	70263396	0.0544
Toxaphene #3	5.860	94412142	0.0550
Toxaphene #4	6.644	72827746	0.0539
Toxaphene #5	6.784	44158490	0.0544
SURRDCBPEST	8.971	76073290	65.1792
Chlordane		358516688	0.2644
Toxaphene		316781664	0.2716

PESTICIDE
QUALITY CONTROL
DOCUMENTS

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\006.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MRL PP 3946
Acquired: Aug 23,2013 11:40:52
Printed: Aug 23,2013 14:40:07

Data Summary: {Data Description}



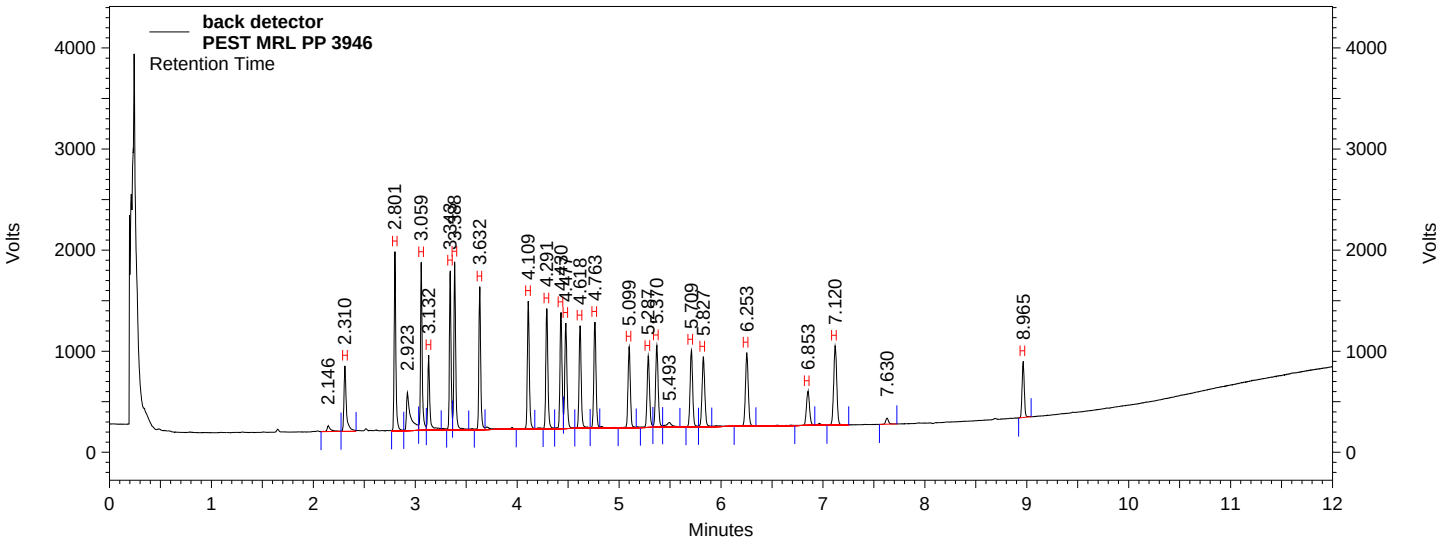
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.444	4299076	6.0624
ALPHABHC	2.887	7847584	0.0023
LINDANE	3.128	6869796	0.0023
BETABHC	3.195	3839281	0.0025
DELTABHC	3.330	6424676	0.0023
HEPTACHLOR	3.511	6811341	0.0025
ALDRIN	3.751	6331482	0.0025
HEPTAEPOX	4.254	5982417	0.0025
GAMMACHLOR	4.376	5670961	0.0024
ALPHACHLOR	4.501	5521298	0.0024
44DDE	4.598	3137457	0.0021
ENDOI	4.618	6787229	0.0024
DIELDRIN	4.863	5290246	0.0023
ENDRIN	5.108	4342526	0.0023
44DDD	5.223	3595760	0.0022
ENDOII	5.362	5026726	0.0024
44DDT	5.570	3960692	0.0022
ENDRINALDEH	5.881	4311982	0.0023
METHOXYCL	6.288	2303743	0.0022
ENDOSULFATE	6.495	4308003	0.0022
ENDRINKETONE	6.948	5161588	0.0023
SURRDCBPEST	8.587	3065552	5.2359

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\006.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MRL PP 3946
Acquired: Aug 23,2013 11:40:52
Printed: Aug 23,2013 14:40:07

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	8111333	5.8892
ALPHABHC	2.801	15574479	0.0023
LINDANE	3.059	14916888	0.0025
BETABHC	3.132	8016786	0.0027
DELTABHC	3.343	13482976	0.0023
HEPTACHLOR	3.388	15787209	0.0024
ALDRIN	3.632	13492779	0.0023
HEPTAEPOX	4.109	13219038	0.0023
GAMMACHLOR	4.291	13018846	0.0023
ALPHACHLOR	4.430	12607647	0.0023
ENDOI	4.477	12334209	0.0023
44DDE	4.618	11568559	0.0022
DIELDRIN	4.763	12411064	0.0023
ENDRIN	5.099	9867646	0.0022
44DDD	5.287	9099357	0.0022
ENDOII	5.370	11228159	0.0023
44DDT	5.709	10215708	0.0022
ENDRINALDEH	5.827	10144493	0.0023
ENDOSULFATE	6.253	10954565	0.0023
METHOXYCL	6.853	5582020	0.0022
ENDRINKETONE	7.120	12677962	0.0021
SURRDCBPEST	8.965	6369603	5.4564

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:08

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\006.dat	PEST MRL PP 3946	Aug 23,2013 14:40:08

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	6.062	1.040	30.000	Passed
ALPHABHC	0.002	0.002	2.450	30.000	Passed
LINDANE	0.002	0.002	3.095	30.000	Passed
BETABHC	0.002	0.003	5.353	30.000	Passed
DELTABHC	0.002	0.002	5.100	30.000	Passed
HEPTACHLOR	0.002	0.002	2.419	30.000	Passed
ALDRIN	0.002	0.002	3.678	30.000	Passed
HEPTAEPOX	0.002	0.002	2.888	30.000	Passed
GAMMACHLOR	0.002	0.002	0.164	30.000	Passed
ALPHACHLOR	0.002	0.002	1.782	30.000	Passed
44DDE	0.002	0.002	14.104	30.000	Passed
ENDOI	0.002	0.002	0.127	30.000	Passed
DIELDRIN	0.002	0.002	5.171	30.000	Passed
ENDRIN	0.002	0.002	5.775	30.000	Passed
44DDD	0.002	0.002	8.923	30.000	Passed
ENDOII	0.002	0.002	1.789	30.000	Passed
44DDT	0.002	0.002	8.302	30.000	Passed
ENDRINALDEH	0.002	0.002	3.699	30.000	Passed
METHOXYCL	0.002	0.002	6.288	30.000	Passed
ENDOSULFATE	0.002	0.002	9.147	30.000	Passed
ENDRINKETONE	0.002	0.002	3.445	30.000	Passed
SURRDCBPEST	6.000	5.236	12.736	30.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	5.889	1.847	30.000	Passed
ALPHABHC	0.002	0.002	5.563	30.000	Passed
LINDANE	0.002	0.002	2.711	30.000	Passed
BETABHC	0.002	0.003	12.729	30.000	Passed
DELTABHC	0.002	0.002	6.097	30.000	Passed
HEPTACHLOR	0.002	0.002	0.760	30.000	Passed
ALDRIN	0.002	0.002	5.219	30.000	Passed
HEPTAEPOX	0.002	0.002	2.323	30.000	Passed
GAMMACHLOR	0.002	0.002	4.539	30.000	Passed
ALPHACHLOR	0.002	0.002	4.405	30.000	Passed
ENDOI	0.002	0.002	4.087	30.000	Passed
44DDE	0.002	0.002	8.625	30.000	Passed
DIELDRIN	0.002	0.002	6.133	30.000	Passed
ENDRIN	0.002	0.002	6.569	30.000	Passed
44DDD	0.002	0.002	9.491	30.000	Passed
ENDOII	0.002	0.002	5.486	30.000	Passed
44DDT	0.002	0.002	7.773	30.000	Passed
ENDRINALDEH	0.002	0.002	3.388	30.000	Passed
ENDOSULFATE	0.002	0.002	5.476	30.000	Passed
METHOXYCL	0.002	0.002	7.547	30.000	Passed

QC Check Standard Report

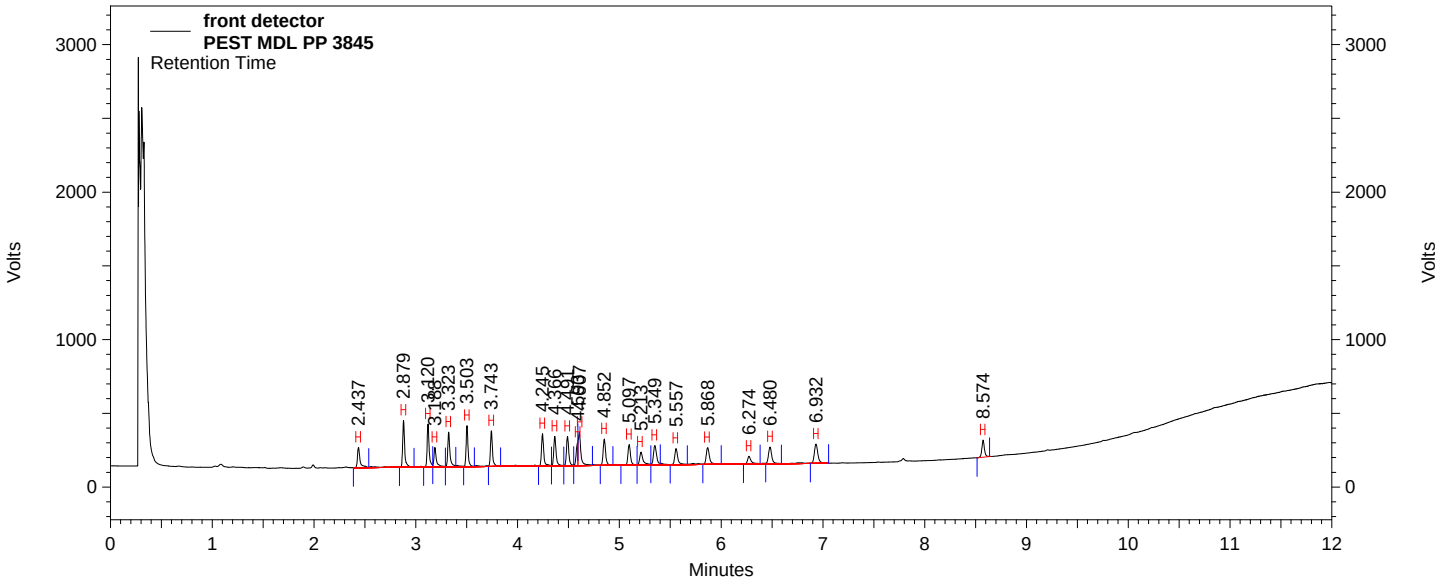
Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:08

ENDRINKETONE	0.002	0.002	13.517	30.000	**Passed**
SURRDCBPEST	6.000	5.456	9.059	30.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MDL PP 3845
Acquired: Aug 23,2013 11:57:33
Printed: Aug 23,2013 14:40:11

Data Summary: {Data Description}



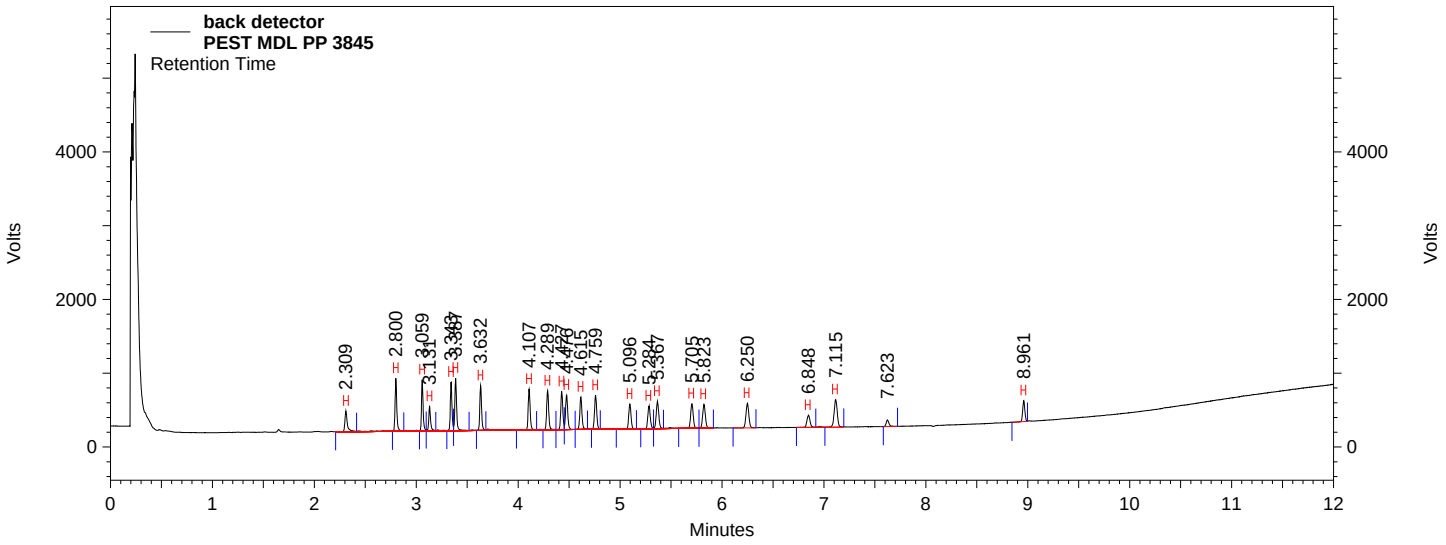
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.437	1924528	2.5444
ALPHABHC	2.879	3381622	0.0011
LINDANE	3.120	3080671	0.0011
BETABHC	3.188	1738201	0.0010
DELTABHC	3.323	2768309	0.0011
HEPTACHLOR	3.503	2904258	0.0011
ALDRIN	3.743	2600819	0.0011
HEPTAEPOX	4.245	2581335	0.0011
GAMMACHLOR	4.366	2470715	0.0011
ALPHACHLOR	4.491	2431894	0.0011
44DDE	4.593	1356372	0.0011
ENDOI	4.607	3100868	0.0011
DIELDRIN	4.852	2371846	0.0011
ENDRIN	5.097	1904380	0.0011
44DDD	5.213	1607747	0.0010
ENDOII	5.349	2160214	0.0010
44DDT	5.557	1816209	0.0011
ENDRINALDEH	5.868	2031693	0.0010
METHOXYCL	6.274	1029841	0.0010
ENDOSULFATE	6.480	2025404	0.0010
ENDRINKETONE	6.932	2459914	0.0011
SURRDCBPEST	8.574	1590833	2.5196

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MDL PP 3845
Acquired: Aug 23,2013 11:57:33
Printed: Aug 23,2013 14:40:11

Data Summary: {Data Description}



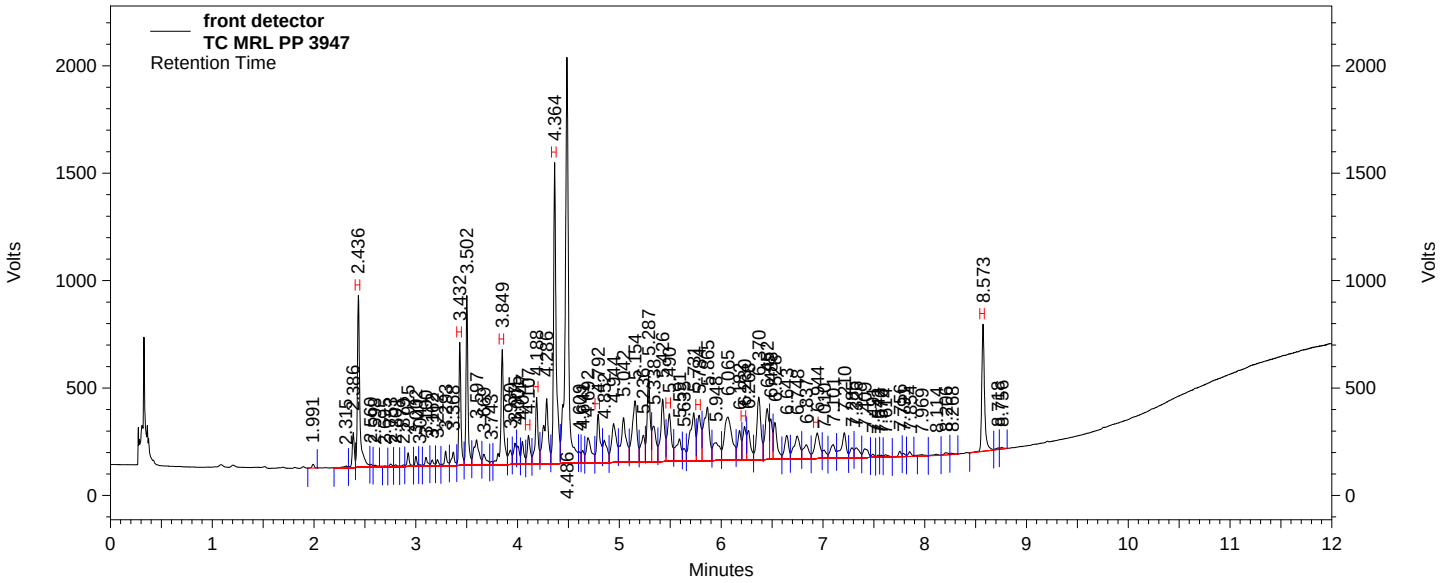
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.309	3681820	2.6537
ALPHABHC	2.800	6556537	0.0011
LINDANE	3.059	5927181	0.0010
BETABHC	3.131	3278659	0.0010
DELTABHC	3.343	5725253	0.0010
HEPTACHLOR	3.387	6814094	0.0010
ALDRIN	3.632	5737188	0.0010
HEPTAEPOX	4.107	5870452	0.0010
GAMMACHLOR	4.289	5722244	0.0010
ALPHACHLOR	4.427	5568101	0.0010
ENDOI	4.476	5434896	0.0010
44DDE	4.615	5035095	0.0010
DIELDRIN	4.759	5394989	0.0010
ENDRIN	5.096	4176153	0.0010
44DDD	5.284	4052596	0.0010
ENDOII	5.367	5084984	0.0010
44DDT	5.705	4614328	0.0011
ENDRINALDEH	5.823	4727313	0.0010
ENDOSULFATE	6.250	5091392	0.0010
METHOXYCL	6.848	2697048	0.0010
ENDRINKETONE	7.115	6111503	0.0010
SURRDCBPEST	8.961	3157991	2.4004

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MRL PP 3947
Acquired: Aug 23,2013 12:14:15
Printed: Aug 23,2013 14:40:13

Data Summary: {Data Description}



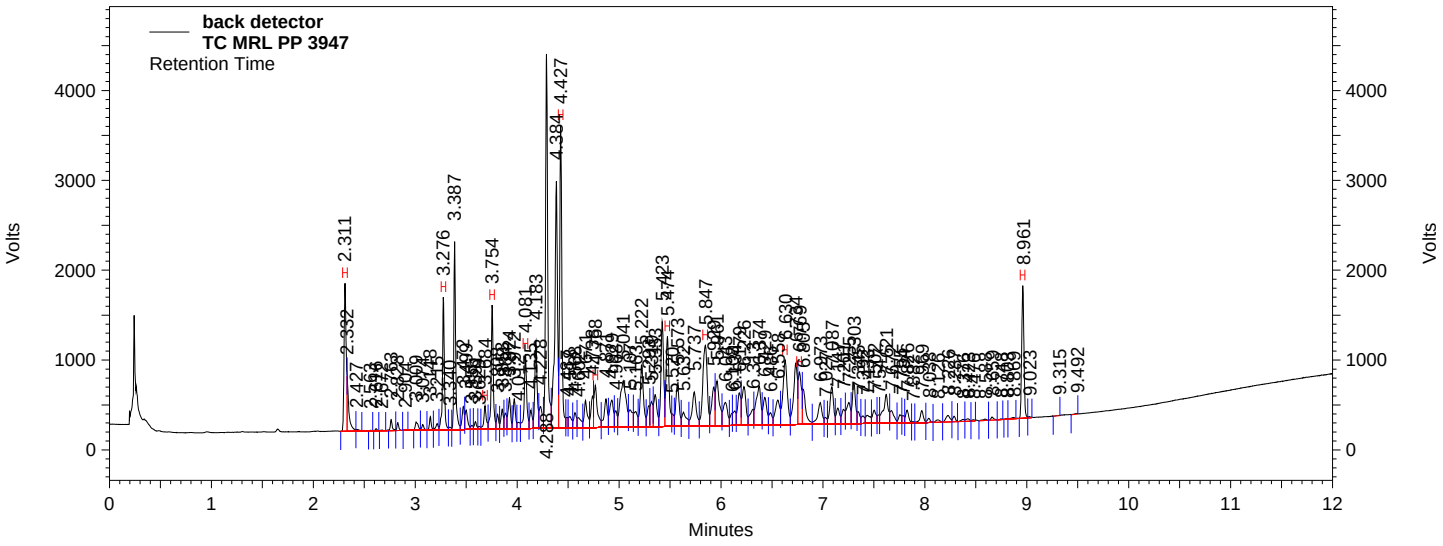
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.436	10408729	14.6513
Chlordane #1	3.432	6028313	0.0121
Chlordane #2	3.849	8027130	0.0122
Chlordane #3	4.107	2052556	0.0122
Chlordane #4	4.188	4550586	0.0124
Chlordane #5	4.364	19337013	0.0118
Toxaphene #1	4.792	4019722	0.0125
Toxaphene #2	5.490	4758399	0.0123
Toxaphene #3	5.784	4352971	0.0120
Toxaphene #4	6.230	2684066	0.0110
Toxaphene #5	6.944	3205080	0.0111
SURRDCBPEST	8.573	8616024	14.8024
Chlordane		39995598	0.0608
Toxaphene		19020238	0.0588

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MRL PP 3947
Acquired: Aug 23,2013 12:14:15
Printed: Aug 23,2013 14:40:13

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.311	18309658	14.5268
Chlordane #1	3.276	14689983	0.0123
Chlordane #2	3.684	3363551	0.0120
Chlordane #3	3.754	15195049	0.0127
Chlordane #4	4.081	10714312	0.0124
Chlordane #5	4.427	38393219	0.0123
Toxaphene #1	4.768	8273560	0.0127
Toxaphene #2	5.474	15737622	0.0122
Toxaphene #3	5.847	20894279	0.0122
Toxaphene #4	6.630	16454277	0.0122
Toxaphene #5	6.769	10052019	0.0124
SURRDCBPEST	8.961	17246986	14.7771
Chlordane		82356114	0.0617
Toxaphene		71411757	0.0616

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 23,2013 14:40:14

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\008.dat	TC MRL PP 3947	Aug 23,2013 14:40:14

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	14.651	1.745	30.000	Passed
Chlordane #1	0.012	0.012	1.214	30.000	Passed
Chlordane #2	0.012	0.012	1.606	30.000	Passed
Chlordane #3	0.012	0.012	1.536	30.000	Passed
Chlordane #4	0.012	0.012	3.548	30.000	Passed
Chlordane #5	0.012	0.012	1.608	30.000	Passed
Toxaphene #1	0.012	0.013	4.558	30.000	Passed
Toxaphene #2	0.012	0.012	2.131	30.000	Passed
Toxaphene #3	0.012	0.012	0.195	30.000	Passed
Toxaphene #4	0.012	0.011	8.509	30.000	Passed
Toxaphene #5	0.012	0.011	7.779	30.000	Passed
SURRDCBPEST	14.400	14.802	2.794	30.000	Passed
Chlordane	0.060	0.061	1.259	30.000	Passed
Toxaphene	0.060	0.059	1.959	30.000	Passed

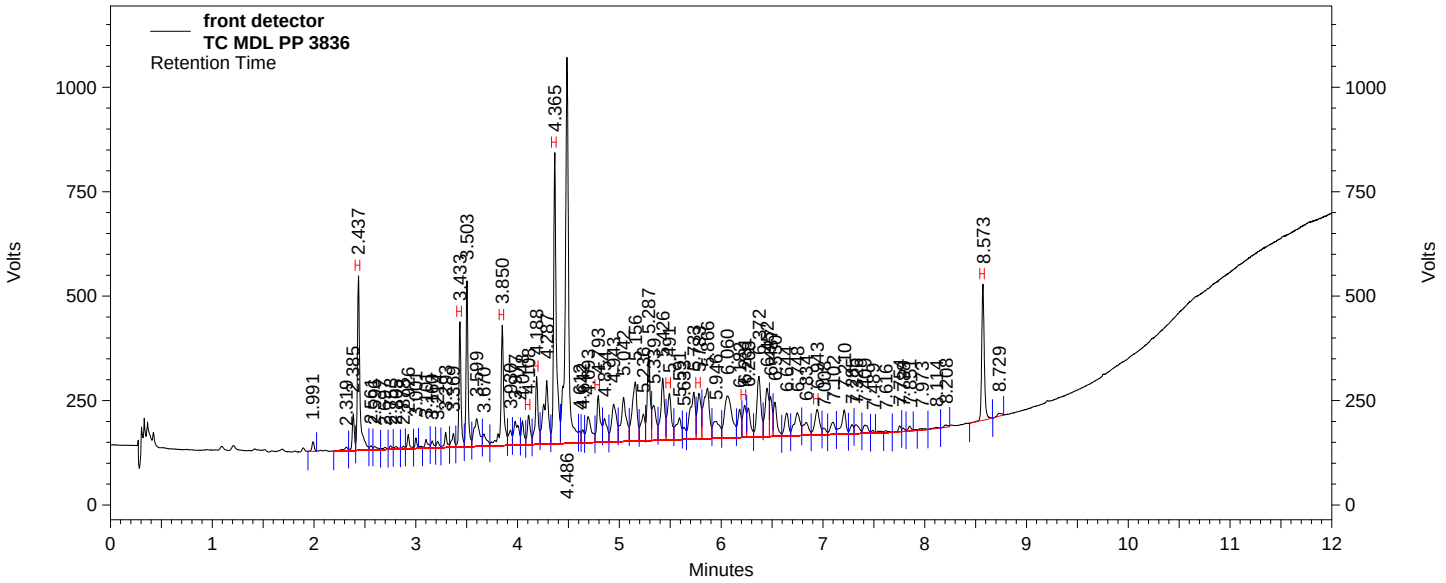
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	14.527	0.881	30.000	Passed
Chlordane #1	0.012	0.012	2.298	30.000	Passed
Chlordane #2	0.012	0.012	0.352	30.000	Passed
Chlordane #3	0.012	0.013	6.155	30.000	Passed
Chlordane #4	0.012	0.012	3.545	30.000	Passed
Chlordane #5	0.012	0.012	2.578	30.000	Passed
Toxaphene #1	0.012	0.013	6.013	30.000	Passed
Toxaphene #2	0.012	0.012	1.520	30.000	Passed
Toxaphene #3	0.012	0.012	1.368	30.000	Passed
Toxaphene #4	0.012	0.012	1.466	30.000	Passed
Toxaphene #5	0.012	0.012	3.191	30.000	Passed
SURRDCBPEST	14.400	14.777	2.619	30.000	Passed
Chlordane	0.060	0.062	2.845	30.000	Passed
Toxaphene	0.060	0.062	2.712	30.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\009.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MDL PP 3836
Acquired: Aug 23,2013 12:30:56
Printed: Aug 23,2013 14:40:16

Data Summary: {Data Description}



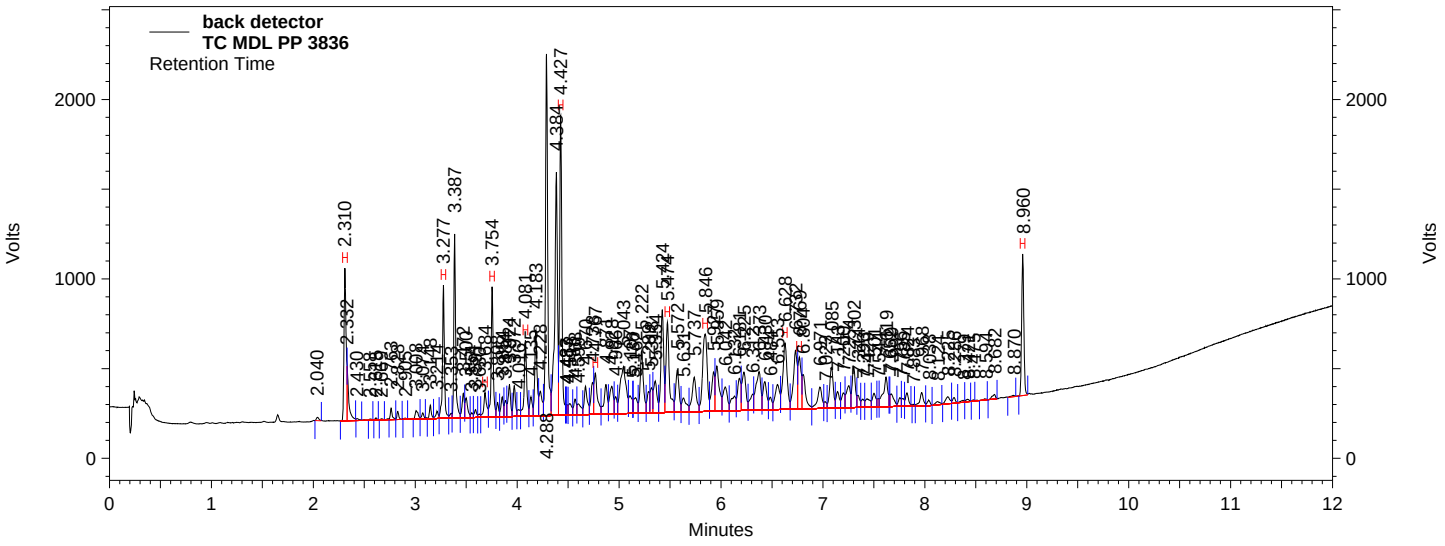
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.437	5477737	7.7105
Chlordane #1	3.433	3198835	0.0064
Chlordane #2	3.850	4437427	0.0067
Chlordane #3	4.108	1100118	0.0065
Chlordane #4	4.188	2424824	0.0066
Chlordane #5	4.365	9746836	0.0060
Toxaphene #1	4.793	2005111	0.0063
Toxaphene #2	5.491	2419649	0.0062
Toxaphene #3	5.783	2209514	0.0061
Toxaphene #4	6.231	1407531	0.0058
Toxaphene #5	6.943	1523850	0.0053
SURRDCBPEST	8.573	4419018	7.5919
Chlordane		20908040	0.0323
Toxaphene		9565655	0.0296

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\009.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MDL PP 3836
Acquired: Aug 23,2013 12:30:56
Printed: Aug 23,2013 14:40:16

Data Summary: {Data Description}



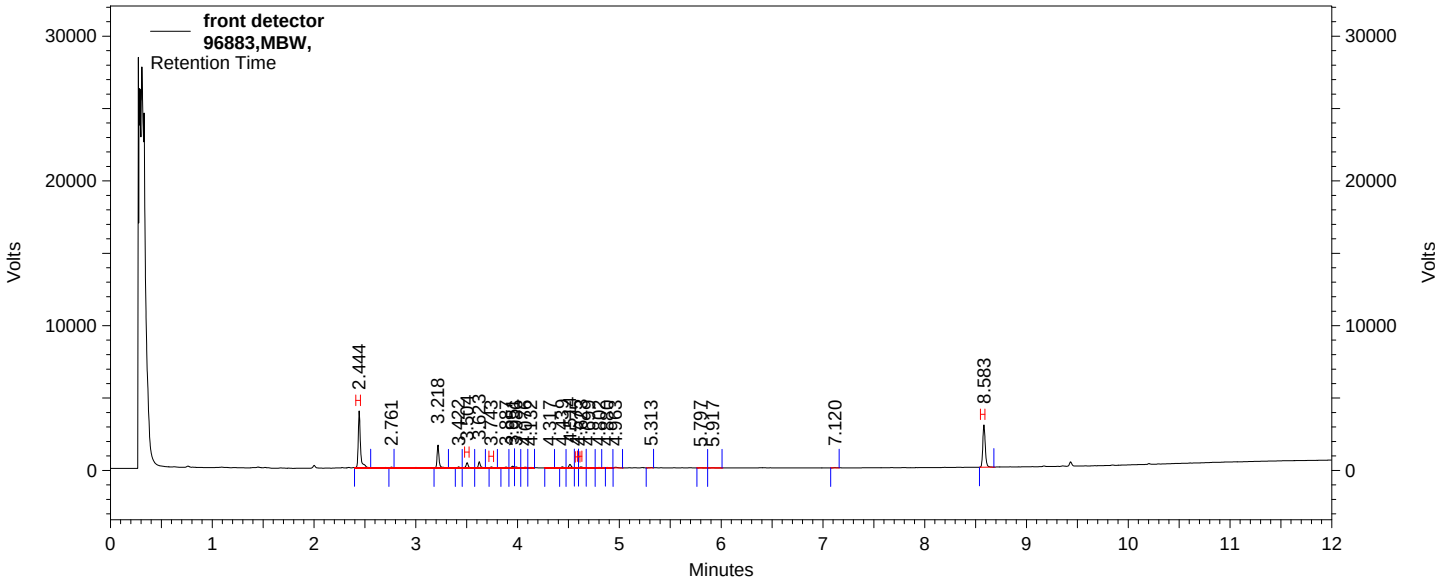
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	9424233	7.4771
Chlordane #1	3.277	7536482	0.0063
Chlordane #2	3.684	2088062	0.0074
Chlordane #3	3.754	7917147	0.0066
Chlordane #4	4.081	5475885	0.0064
Chlordane #5	4.427	19199135	0.0062
Toxaphene #1	4.767	4039488	0.0062
Toxaphene #2	5.474	8750673	0.0068
Toxaphene #3	5.846	10411870	0.0061
Toxaphene #4	6.628	8263320	0.0061
Toxaphene #5	6.769	4709386	0.0058
SURRDCBPEST	8.960	8975173	7.6899
Chlordane		42216711	0.0329
Toxaphene		36174737	0.0310

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 96883,MBW,
Acquired: Aug 23,2013 12:59:15
Printed: Aug 23,2013 15:06:36

Data Summary: {Data Description}



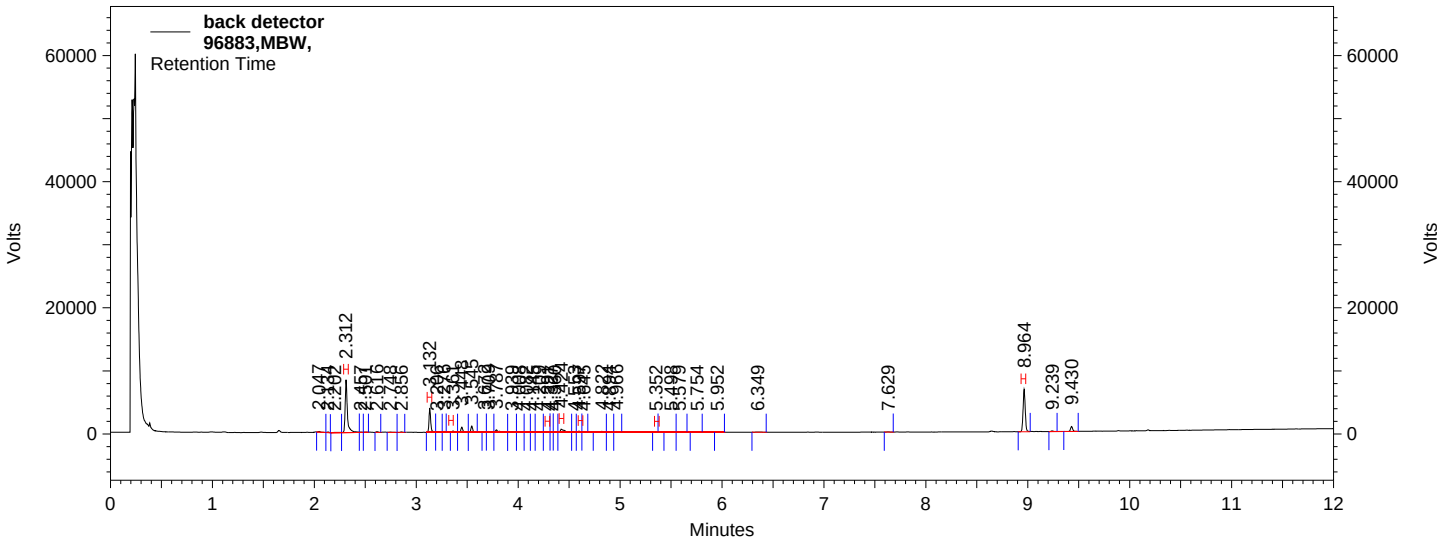
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.444	46452728	68.3072
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	3.504	4466746	0.0016
ALDRIN	3.743	996703	0.0005
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
44DDE	4.575	455803	0.0005
ENDOI	4.623	1199803	0.0004
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.583	38012958	73.2717

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 96883,MBW,
Acquired: Aug 23,2013 12:59:15
Printed: Aug 23,2013 15:06:36

Data Summary: {Data Description}



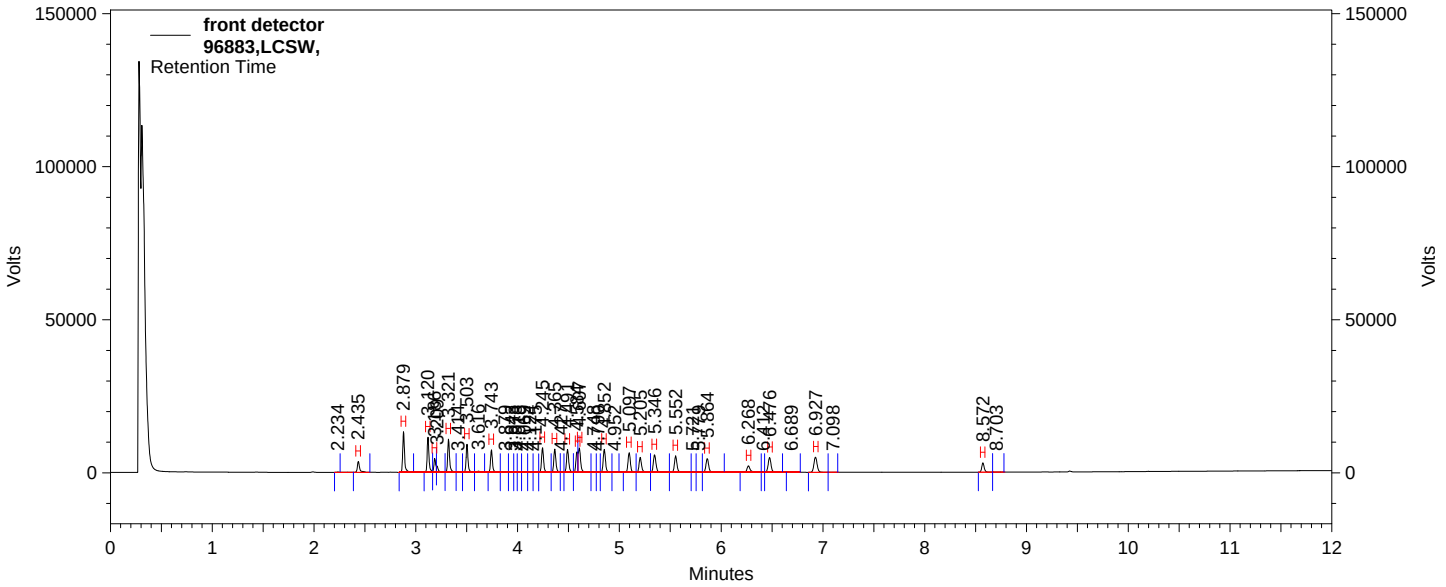
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.312	98132337	70.8134
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC	3.132	34128299	0.0121
DELTABHC	3.361	2618474	0.0006
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR	4.291	1355708	0.0003
ALPHACHLOR	4.424	10280395	0.0019
ENDOI			0.0000 BDL
44DDE	4.597	2460626	0.0006
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII	5.352	726058	0.0002
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.964	75111195	73.1640

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\011.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 96883,LCSW,
Acquired: Aug 23,2013 13:15:54
Printed: Aug 23,2013 14:40:20

Data Summary: {Data Description}



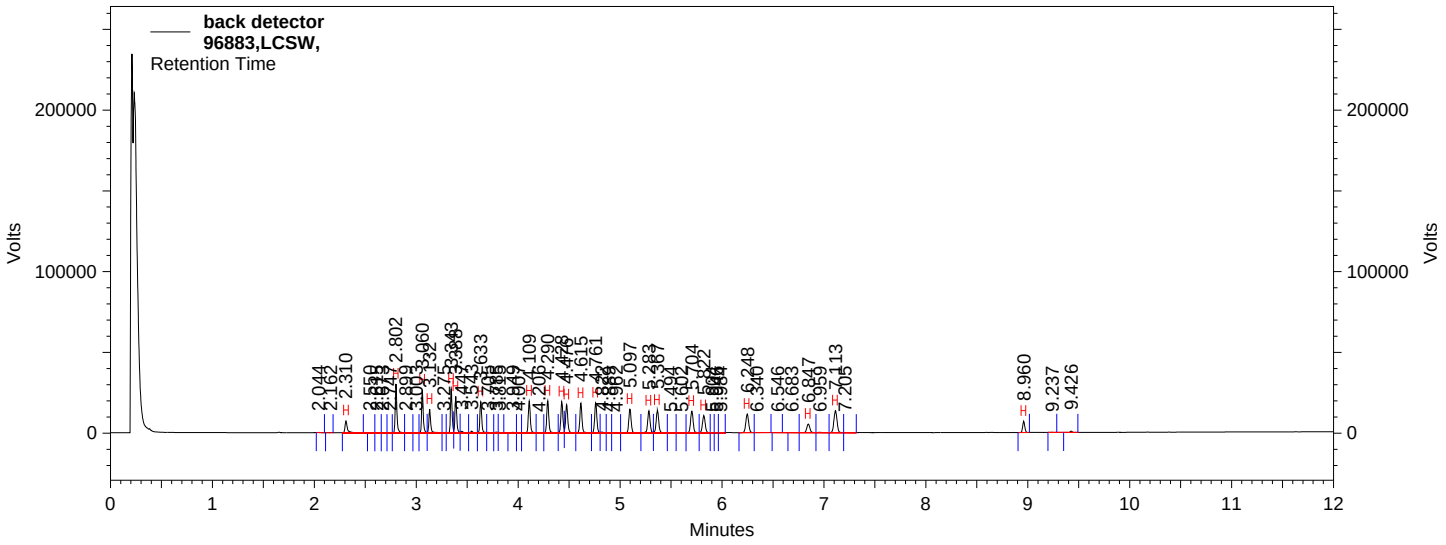
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.435	43733057	64.3031
ALPHABHC	2.879	127567856	0.0352
LINDANE	3.120	110713560	0.0355
BETABHC	3.186	43146068	0.0313
DELTABHC	3.321	111033855	0.0357
HEPTACHLOR	3.503	92382566	0.0326
ALDRIN	3.743	75289053	0.0283
HEPTAEPOX	4.245	87123566	0.0358
GAMMACHLOR	4.365	84763310	0.0346
ALPHACHLOR	4.491	86603602	0.0360
44DDE	4.584	65495327	0.0366
ENDOI	4.607	100108995	0.0354
DIELDRIN	4.852	90518666	0.0365
ENDRIN	5.097	77990295	0.0398
44DDD	5.205	65881959	0.0373
ENDOII	5.346	80801875	0.0371
44DDT	5.552	73448065	0.0377
ENDRINALDEH	5.864	65341005	0.0355
METHOXYCL	6.268	37409340	0.0382
ENDOSULFATE	6.476	74240535	0.0377
ENDRINKETONE	6.927	83403905	0.0369
SURRDCBPEST	8.572	39386102	76.1068

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\011.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 96883,LCSW,
Acquired: Aug 23,2013 13:15:54
Printed: Aug 23,2013 14:40:20

Data Summary: {Data Description}



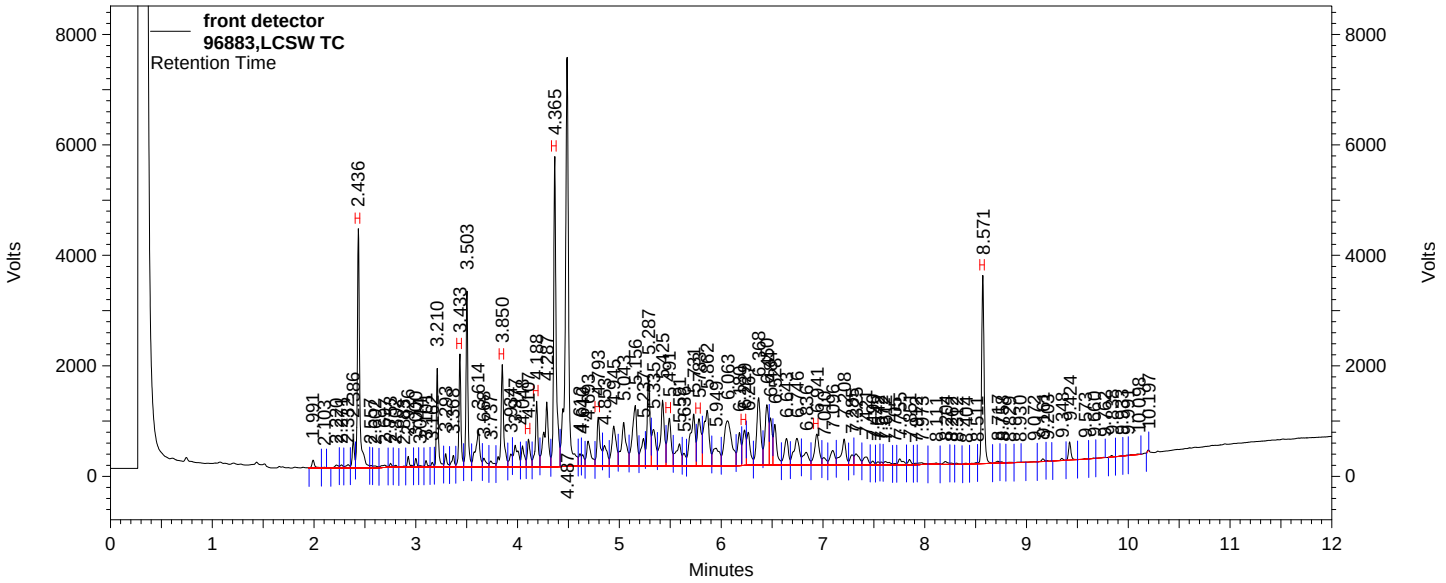
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.310	91497963	66.0815
ALPHABHC	2.802	266908382	0.0349
LINDANE	3.060	226700037	0.0351
BETABHC	3.132	134376043	0.0476
DELTABHC	3.343	230274710	0.0350
HEPTACHLOR	3.388	206891401	0.0313
ALDRIN	3.633	182154658	0.0290
HEPTAEPOX	4.109	200657052	0.0359
GAMMACHLOR	4.290	209299748	0.0352
ALPHACHLOR	4.428	205166141	0.0362
ENDOI	4.476	195253739	0.0364
44DDE	4.615	200847671	0.0356
DIELDRIN	4.761	211280314	0.0365
ENDRIN	5.097	176198013	0.0399
44DDD	5.283	168108446	0.0379
ENDOII	5.367	185100015	0.0377
44DDT	5.704	178525082	0.0367
ENDRINALDEH	5.822	151891758	0.0357
ENDOSULFATE	6.248	174339458	0.0376
METHOXYCL	6.847	85464387	0.0375
ENDRINKETONE	7.113	221039372	0.0370
SURRDCBPEST	8.960	77523331	75.6256

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\012.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: 96883,LCSW TC
Acquired: Aug 23,2013 13:32:39
Printed: Aug 23,2013 14:40:23

Data Summary: {Data Description}



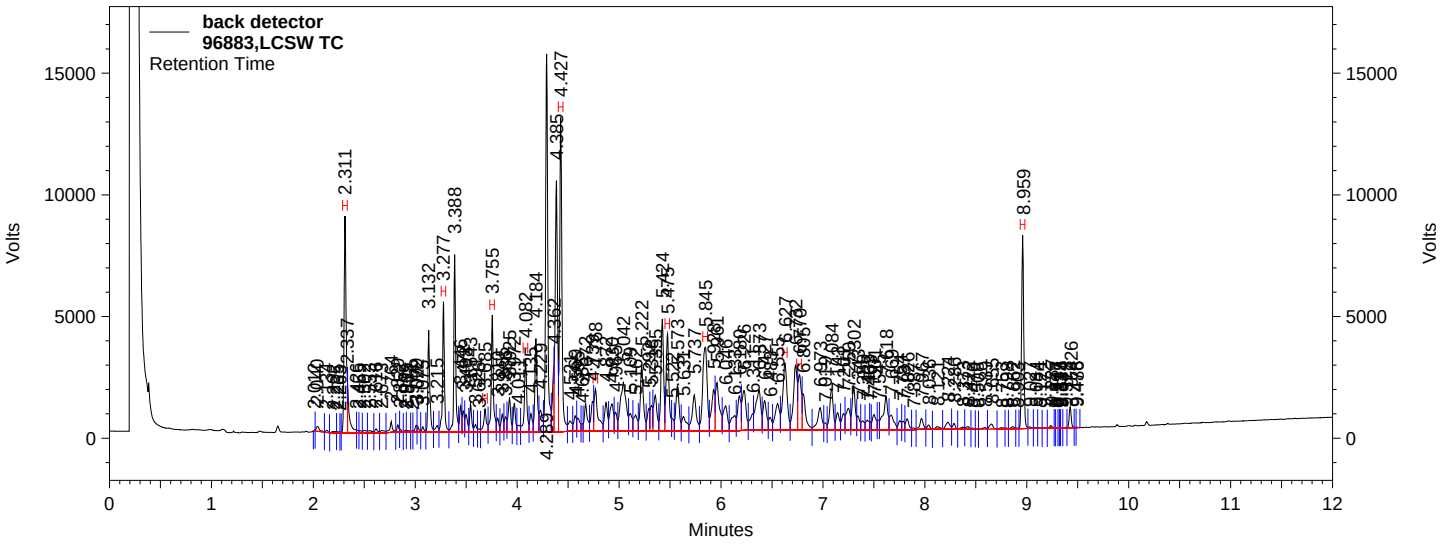
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.436	51507211	72.5016
Chlordane #1	3.433	21111854	0.0425
Chlordane #2	3.850	26569412	0.0404
Chlordane #3	4.107	7398433	0.0439
Chlordane #4	4.188	15954994	0.0436
Chlordane #5	4.365	72710685	0.0444
Toxaphene #1	4.793	15042568	0.0470
Toxaphene #2	5.491	17566309	0.0452
Toxaphene #3	5.783	18000191	0.0495
Toxaphene #4	6.229	11096459	0.0454
Toxaphene #5	6.941	13582532	0.0469
SURRDCBPEST	8.571	44803512	76.9726
Chlordane		143745378	0.2148
Toxaphene		75288059	0.2340

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\012.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: 96883,LCSW TC
Acquired: Aug 23,2013 13:32:39
Printed: Aug 23,2013 14:40:23

Data Summary: {Data Description}



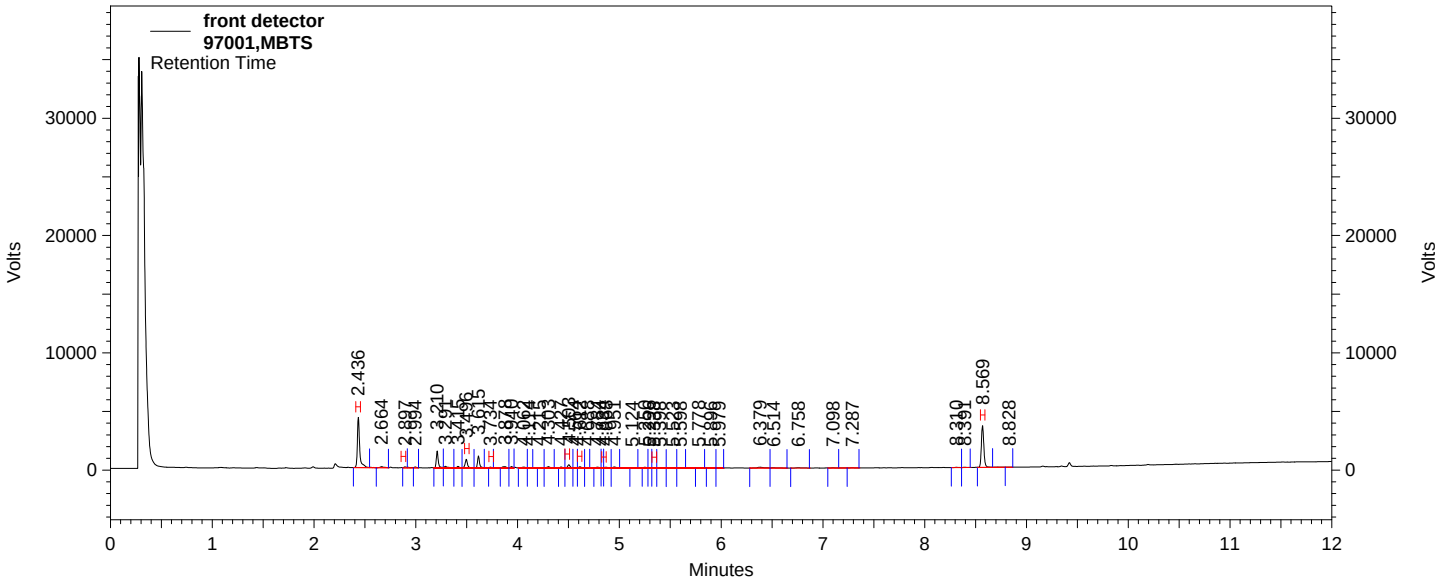
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.311	98632297	78.2544
Chlordane #1	3.277	53905057	0.0450
Chlordane #2	3.685	13477822	0.0479
Chlordane #3	3.755	54027562	0.0453
Chlordane #4	4.082	38569996	0.0447
Chlordane #5	4.427	151901470	0.0487
Toxaphene #1	4.768	34410547	0.0529
Toxaphene #2	5.475	59495516	0.0461
Toxaphene #3	5.845	80473583	0.0469
Toxaphene #4	6.627	63153281	0.0467
Toxaphene #5	6.770	39143475	0.0482
SURRDCBPEST	8.959	88415913	75.7543
Chlordane		311881907	0.2317
Toxaphene		276676402	0.2408

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MBTS
Acquired: Aug 23,2013 14:56:11
Printed: Aug 23,2013 17:16:52

Data Summary: {Data Description}



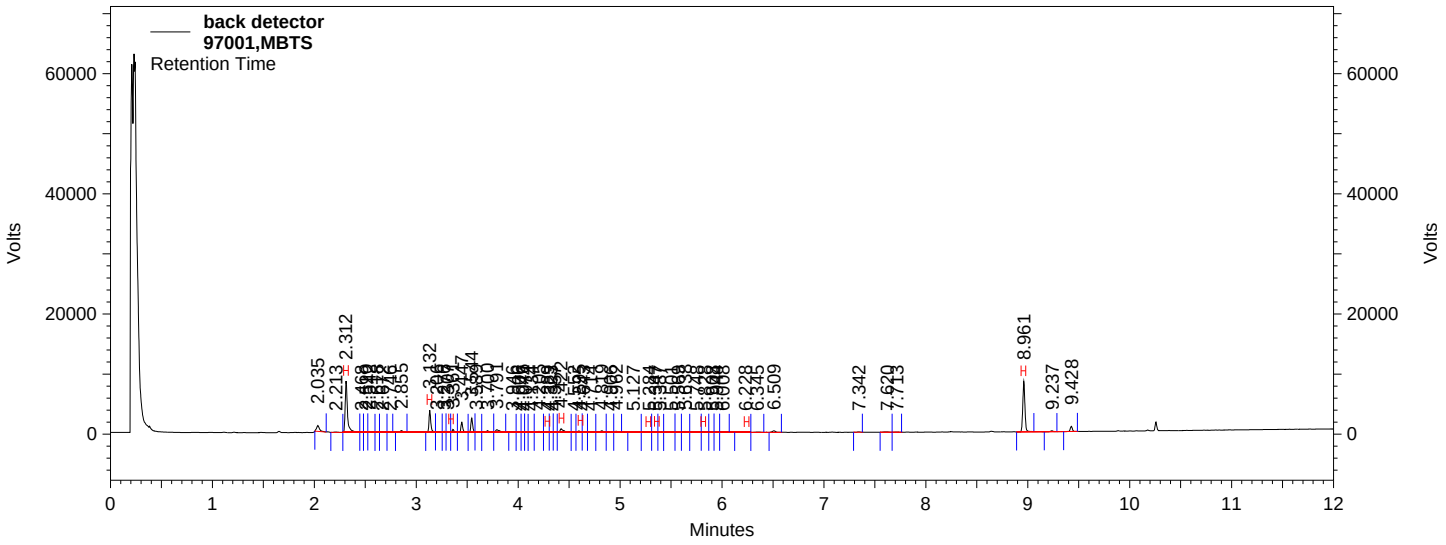
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.436	52730413	77.5435
ALPHABHC	2.897	1178033	0.0004
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	3.496	9264294	0.0033
ALDRIN	3.734	891747	0.0004
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR	4.503	3649279	0.0016
44DDE			0.0000 BDL
ENDOI	4.612	1610068	0.0005
DIELDRIN	4.834	395012	0.0003
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII	5.338	374021	0.0002
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.569	47138375	92.3780

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MBTS
Acquired: Aug 23,2013 14:56:11
Printed: Aug 23,2013 17:16:52

Data Summary: {Data Description}



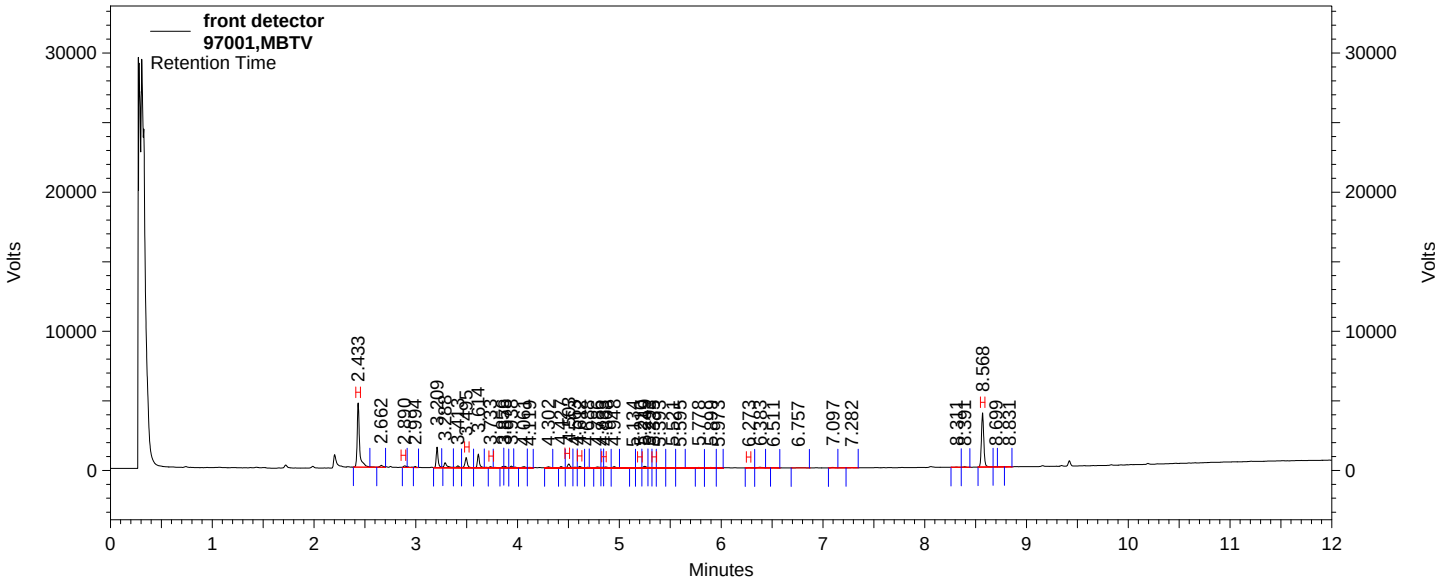
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.312	105684288	76.1899
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC	3.132	35635549	0.0126
DELTABHC	3.361	5558619	0.0010
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR	4.289	1385713	0.0003
ALPHACHLOR	4.422	11177762	0.0020
ENDOI			0.0000 BDL
44DDE	4.595	3656212	0.0008
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD	5.284	876410	0.0003
ENDOII	5.347	1133216	0.0002
44DDT			0.0000 BDL
ENDRINALDEH	5.828	836241	0.0001
ENDOSULFATE	6.228	813523	0.0001
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.961	94200169	92.8174

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\018.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MBTV
Acquired: Aug 23,2013 15:12:48
Printed: Aug 23,2013 17:17:02

Data Summary: {Data Description}



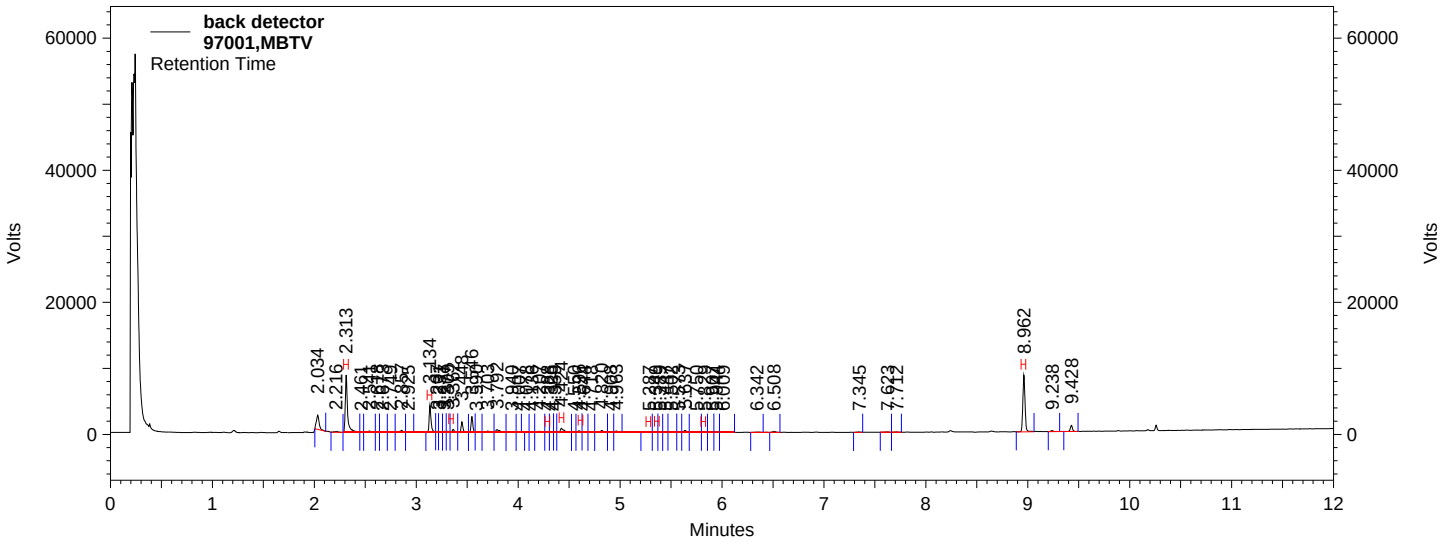
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	57263922	84.2083
ALPHABHC	2.890	1707769	0.0006
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	3.495	9111000	0.0033
ALDRIN	3.733	897877	0.0004
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR	4.503	3580763	0.0015
44DDE			0.0000 BDL
ENDOI	4.612	1496492	0.0005
DIELDRIN	4.833	394867	0.0003
ENDRIN			0.0000 BDL
44DDD	5.210	478179	0.0004
ENDOII	5.335	358650	0.0002
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL	6.273	471607	0.0005
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.568	48961365	96.2725

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\018.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MBTV
Acquired: Aug 23,2013 15:12:48
Printed: Aug 23,2013 17:17:02

Data Summary: {Data Description}



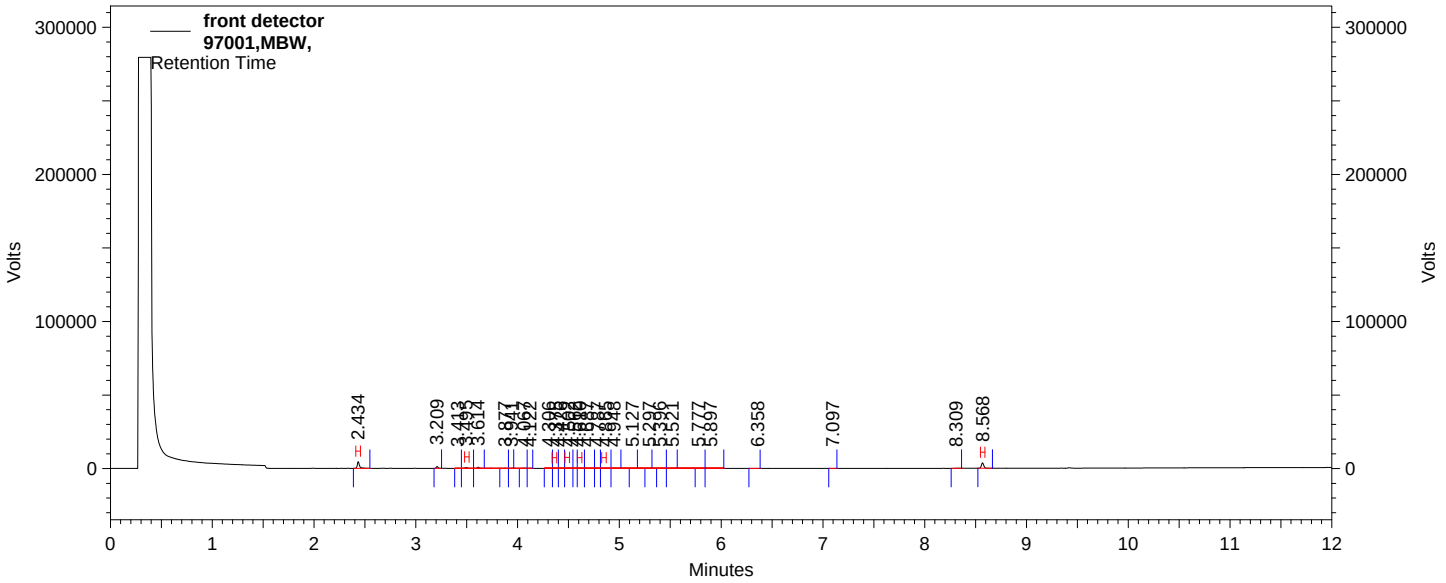
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.313	105522418	76.0747
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC	3.134	40742716	0.0145
DELTABHC	3.362	5920455	0.0011
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR	4.288	1093708	0.0002
ALPHACHLOR	4.424	11768389	0.0021
ENDOI			0.0000 BDL
44DDE	4.596	3567283	0.0008
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD	5.287	919709	0.0003
ENDOII	5.349	1160181	0.0003
44DDT			0.0000 BDL
ENDRINALDEH	5.829	701342	0.0001
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.962	98459137	97.2578

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MBW,
Acquired: Aug 23,2013 15:29:27
Printed: Aug 23,2013 17:17:05

Data Summary: {Data Description}



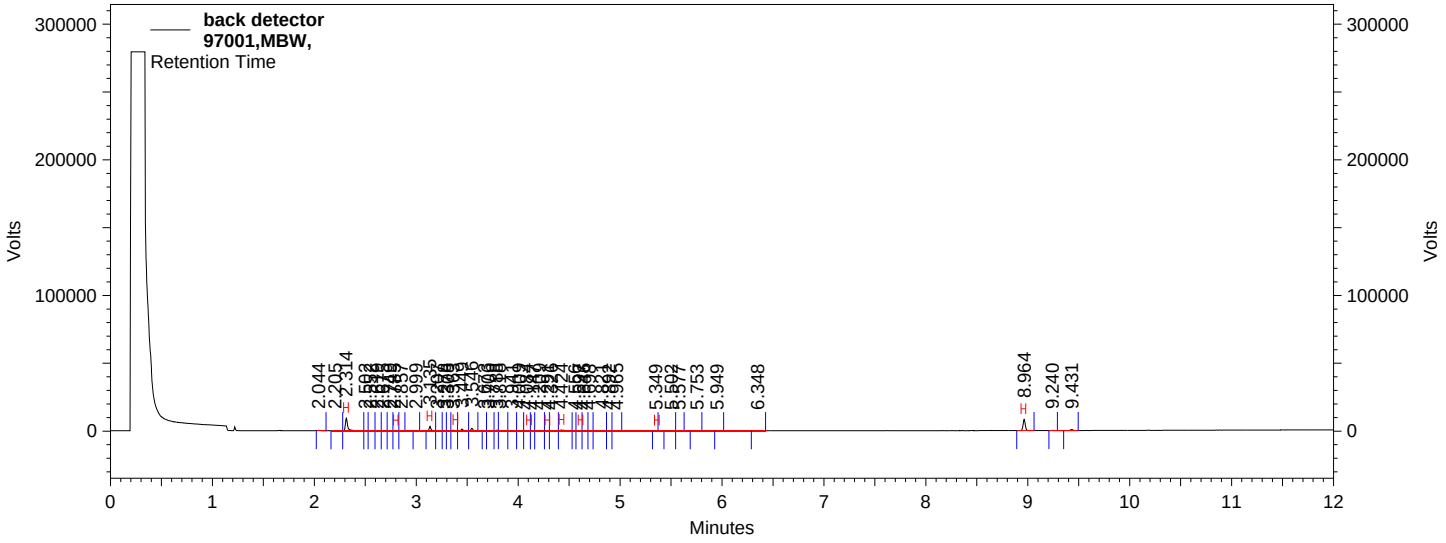
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	53469036	78.6297
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	3.495	6687289	0.0024
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR	4.375	427348	0.0002
ALPHACHLOR	4.502	2919500	0.0013
44DDE			0.0000 BDL
ENDOI	4.610	1311669	0.0004
DIELDRIN	4.865	1097528	0.0005
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.568	46976037	92.0325

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MBW,
Acquired: Aug 23,2013 15:29:27
Printed: Aug 23,2013 17:17:05

Data Summary: {Data Description}



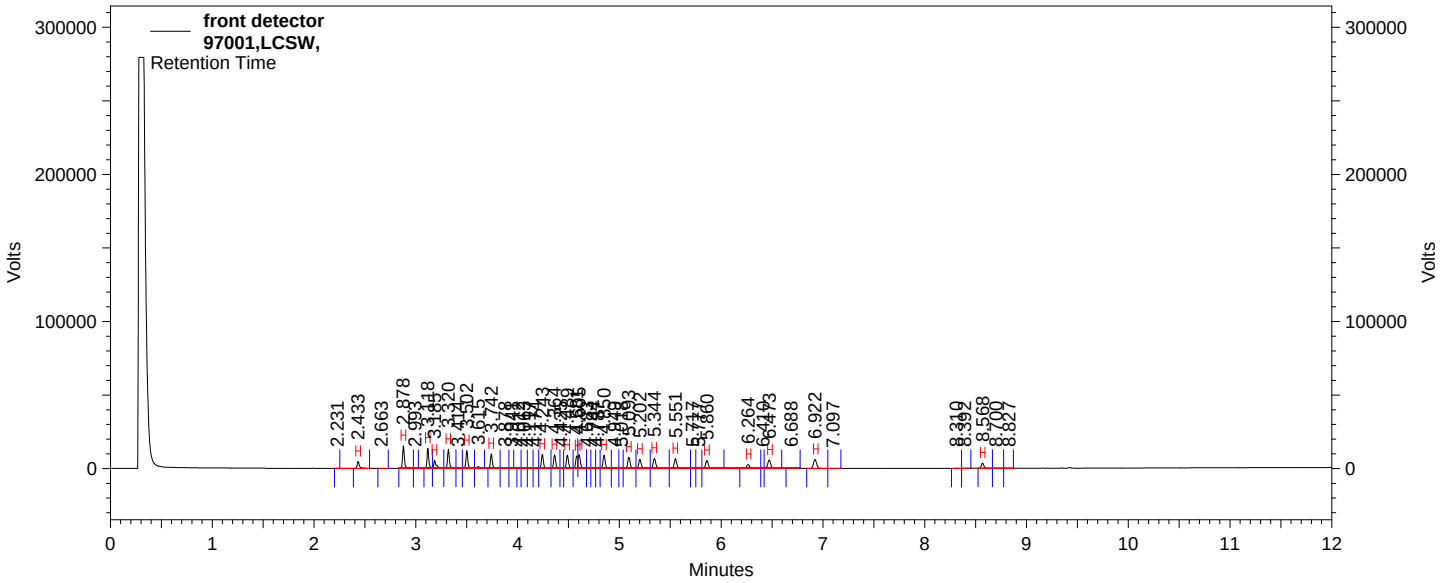
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.314	115489906	83.1550
ALPHABHC	2.785	987290	0.0003
LINDANE			0.0000 BDL
BETABHC	3.135	28855174	0.0102
DELTABHC			0.0000 BDL
HEPTACHLOR	3.363	4338976	0.0007
ALDRIN			0.0000 BDL
HEPTAEPOX	4.084	2009008	0.0004
GAMMACHLOR	4.291	1412139	0.0003
ALPHACHLOR	4.424	9558032	0.0017
ENDOI			0.0000 BDL
44DDE	4.597	2626527	0.0006
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII	5.349	789276	0.0002
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	8.964	93742906	92.3419

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,LCSW,
Acquired: Aug 23,2013 15:46:05
Printed: Aug 23,2013 17:17:07

Data Summary: {Data Description}



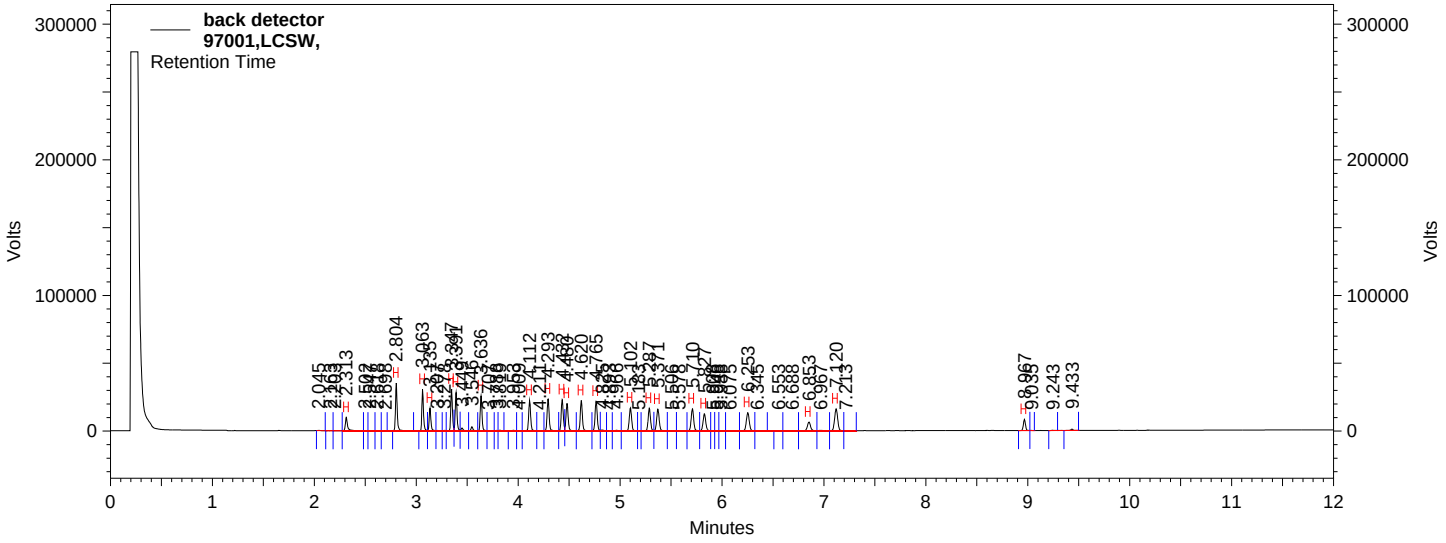
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	55213954	81.1952
ALPHABHC	2.878	147898343	0.0406
LINDANE	3.118	127889257	0.0409
BETABHC	3.185	70502456	0.0515
DELTABHC	3.320	130629823	0.0417
HEPTACHLOR	3.502	120123667	0.0423
ALDRIN	3.742	98352231	0.0367
HEPTAEPOX	4.243	100752805	0.0414
GAMMACHLOR	4.364	100711478	0.0409
ALPHACHLOR	4.489	102040103	0.0423
44DDE	4.581	84948365	0.0471
ENDOI	4.605	110400268	0.0389
DIELDRIN	4.850	105226577	0.0422
ENDRIN	5.093	90960880	0.0467
44DDD	5.202	81112736	0.0455
ENDOII	5.344	93863166	0.0431
44DDT	5.551	88441648	0.0451
ENDRINALDEH	5.860	76991938	0.0418
METHOXYCL	6.264	45390306	0.0470
ENDOSULFATE	6.473	87375572	0.0444
ENDRINKETONE	6.922	99716069	0.0438
SURRDCBPEST	8.568	45846161	89.6336

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,LCSW,
Acquired: Aug 23,2013 15:46:05
Printed: Aug 23,2013 17:17:07

Data Summary: {Data Description}



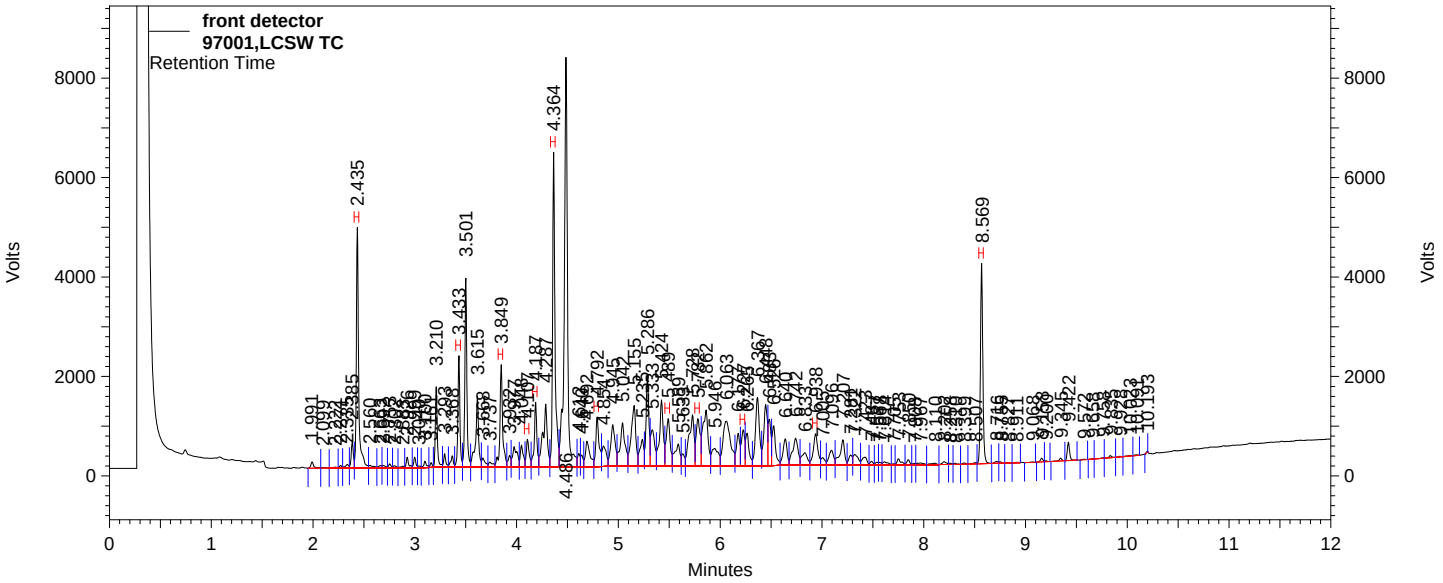
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.313	115246941	82.9826
ALPHABHC	2.804	310974957	0.0404
LINDANE	3.063	260066027	0.0402
BETABHC	3.135	147640118	0.0523
DELTABHC	3.347	265696628	0.0401
HEPTACHLOR	3.391	253528342	0.0384
ALDRIN	3.636	235794462	0.0374
HEPTAEPOX	4.112	227233310	0.0407
GAMMACHLOR	4.293	245963597	0.0412
ALPHACHLOR	4.432	240873518	0.0424
ENDOI	4.480	224373037	0.0420
44DDE	4.620	240106713	0.0425
DIELDRIN	4.765	243818006	0.0421
ENDRIN	5.102	203301486	0.0466
44DDD	5.287	200161657	0.0450
ENDOII	5.371	211173454	0.0431
44DDT	5.710	210743075	0.0433
ENDRINALDEH	5.827	176573458	0.0416
ENDOSULFATE	6.253	202425495	0.0438
METHOXYCL	6.853	102902304	0.0459
ENDRINKETONE	7.120	258212900	0.0435
SURRDCBPEST	8.967	90631603	89.1127

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\021.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: 97001,LCSW TC
Acquired: Aug 23,2013 16:02:45
Printed: Aug 23,2013 17:17:10

Data Summary: {Data Description}



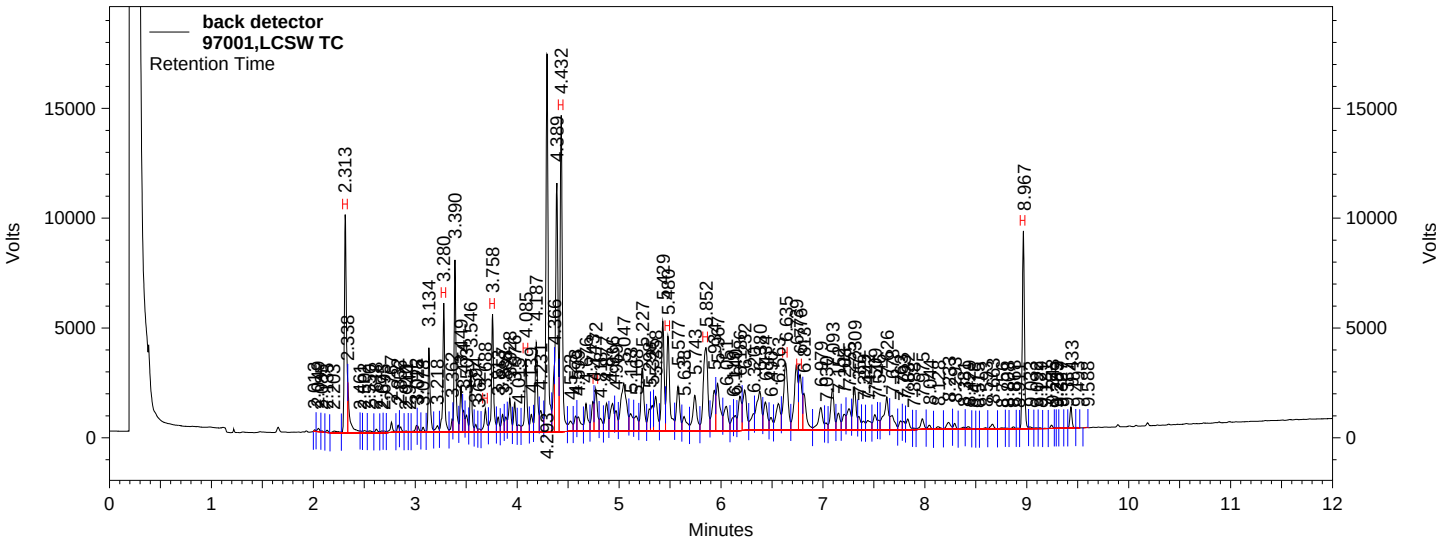
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.435	58204669	81.9290
Chlordane #1	3.433	23487433	0.0473
Chlordane #2	3.849	29653985	0.0450
Chlordane #3	4.107	8361391	0.0496
Chlordane #4	4.187	17539797	0.0479
Chlordane #5	4.364	81207050	0.0496
Toxaphene #1	4.792	17026509	0.0531
Toxaphene #2	5.489	19653432	0.0506
Toxaphene #3	5.782	19907985	0.0548
Toxaphene #4	6.227	12532280	0.0513
Toxaphene #5	6.938	14959955	0.0517
SURRDCBPEST	8.569	50567943	86.8759
Chlordane		160249656	0.2395
Toxaphene		84080161	0.2615

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\021.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: 97001,LCSW TC
Acquired: Aug 23,2013 16:02:45
Printed: Aug 23,2013 17:17:10

Data Summary: {Data Description}



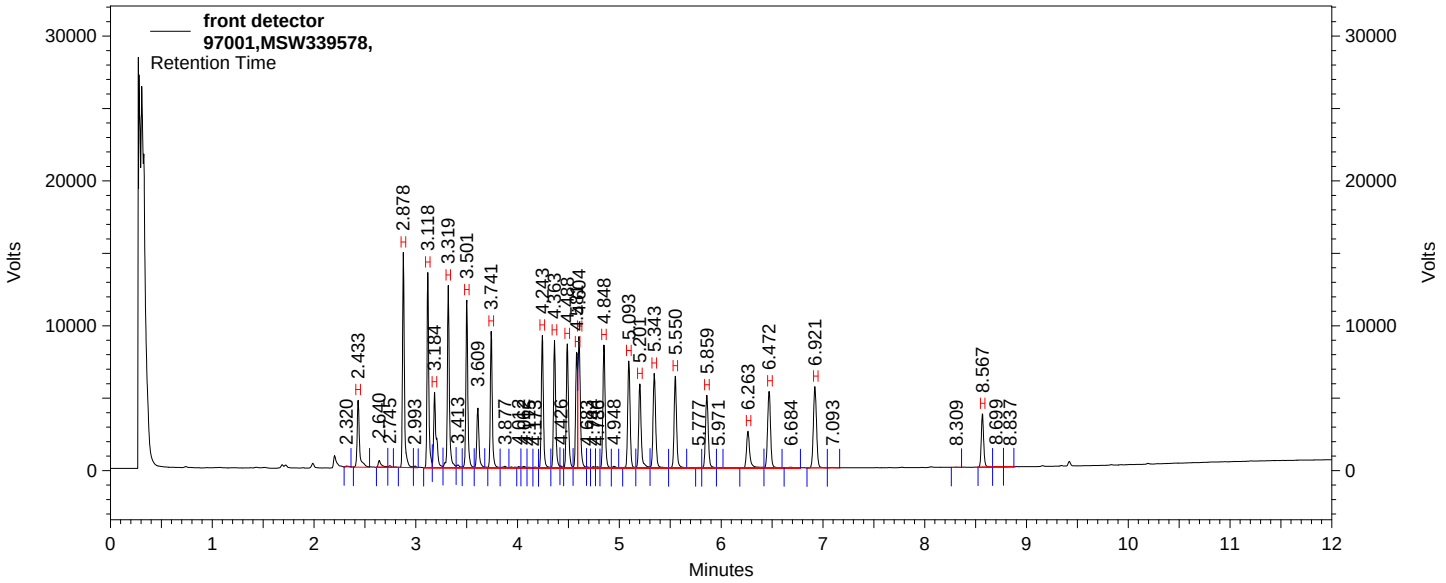
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.313	109233444	86.6653
Chlordane #1	3.280	59818905	0.0500
Chlordane #2	3.688	14342873	0.0510
Chlordane #3	3.758	58362686	0.0489
Chlordane #4	4.085	41208273	0.0478
Chlordane #5	4.432	167564190	0.0537
Toxaphene #1	4.772	29505167	0.0454
Toxaphene #2	5.480	71790293	0.0556
Toxaphene #3	5.852	88668159	0.0516
Toxaphene #4	6.635	69161334	0.0512
Toxaphene #5	6.776	43396153	0.0535
SURRDCBPEST	8.967	100146636	85.8051
Chlordane		341296927	0.2514
Toxaphene		302521106	0.2572

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\024.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MSW339578,
Acquired: Aug 23,2013 16:52:54
Printed: Aug 23,2013 17:17:24

Data Summary: {Data Description}



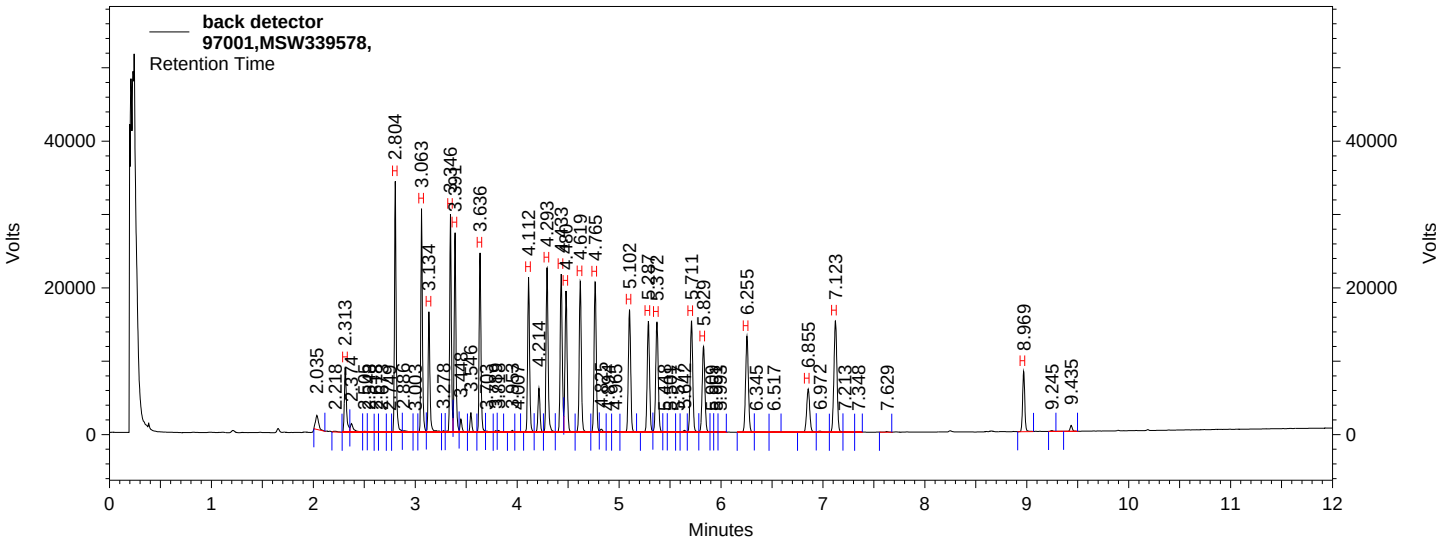
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.433	56273144	82.7521
ALPHABHC	2.878	143375018	0.0394
LINDANE	3.118	126007192	0.0403
BETABHC	3.184	68346230	0.0499
DELTABHC	3.319	131554105	0.0420
HEPTACHLOR	3.501	117905779	0.0415
ALDRIN	3.741	96590268	0.0360
HEPTAEPOX	4.243	98436879	0.0404
GAMMACHLOR	4.363	98865266	0.0402
ALPHACHLOR	4.488	98571617	0.0409
44DDE	4.581	77715669	0.0432
ENDOI	4.604	110436366	0.0390
DIELDRIN	4.848	101791252	0.0408
ENDRIN	5.093	91072905	0.0467
44DDD	5.201	76934359	0.0433
ENDOII	5.343	89179140	0.0410
44DDT	5.550	82612251	0.0423
ENDRINALDEH	5.859	72740373	0.0395
METHOXYCL	6.263	42901610	0.0442
ENDOSULFATE	6.472	82121349	0.0417
ENDRINKETONE	6.921	92573034	0.0408
SURRDCBPEST	8.567	46546016	91.1183

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\024.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: 97001,MSW339578,
Acquired: Aug 23,2013 16:52:54
Printed: Aug 23,2013 17:17:24

Data Summary: {Data Description}



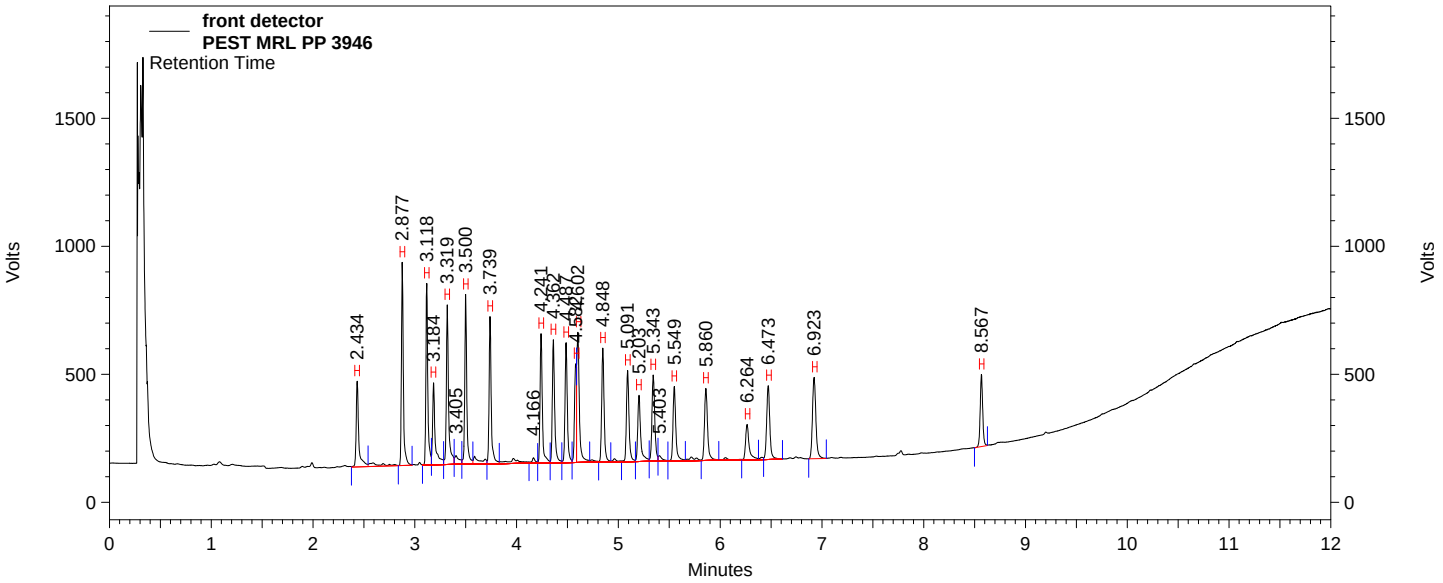
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.313	96950244	69.9709
ALPHABHC	2.804	299985982	0.0391
LINDANE	3.063	260927228	0.0403
BETABHC	3.134	155509483	0.0550
DELTABHC	3.346	256239694	0.0388
HEPTACHLOR	3.391	248381711	0.0376
ALDRIN	3.636	229078849	0.0363
HEPTAEPOX	4.112	214759111	0.0384
GAMMACHLOR	4.293	241290063	0.0405
ALPHACHLOR	4.433	233502732	0.0411
ENDOI	4.480	218548291	0.0409
44DDE	4.619	228000228	0.0404
DIELDRIN	4.765	236118080	0.0407
ENDRIN	5.102	204413143	0.0469
44DDD	5.287	186503657	0.0420
ENDOII	5.372	202479374	0.0413
44DDT	5.711	198085002	0.0407
ENDRINALDEH	5.829	168866973	0.0398
ENDOSULFATE	6.255	191834446	0.0414
METHOXYCL	6.855	94306819	0.0417
ENDRINKETONE	7.123	240436621	0.0404
SURRDCBPEST	8.969	93124529	91.6992

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\036.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MRL PP 3946
Acquired: Aug 23,2013 20:12:59
Printed: Aug 24,2013 21:52:01

Data Summary: {Data Description}



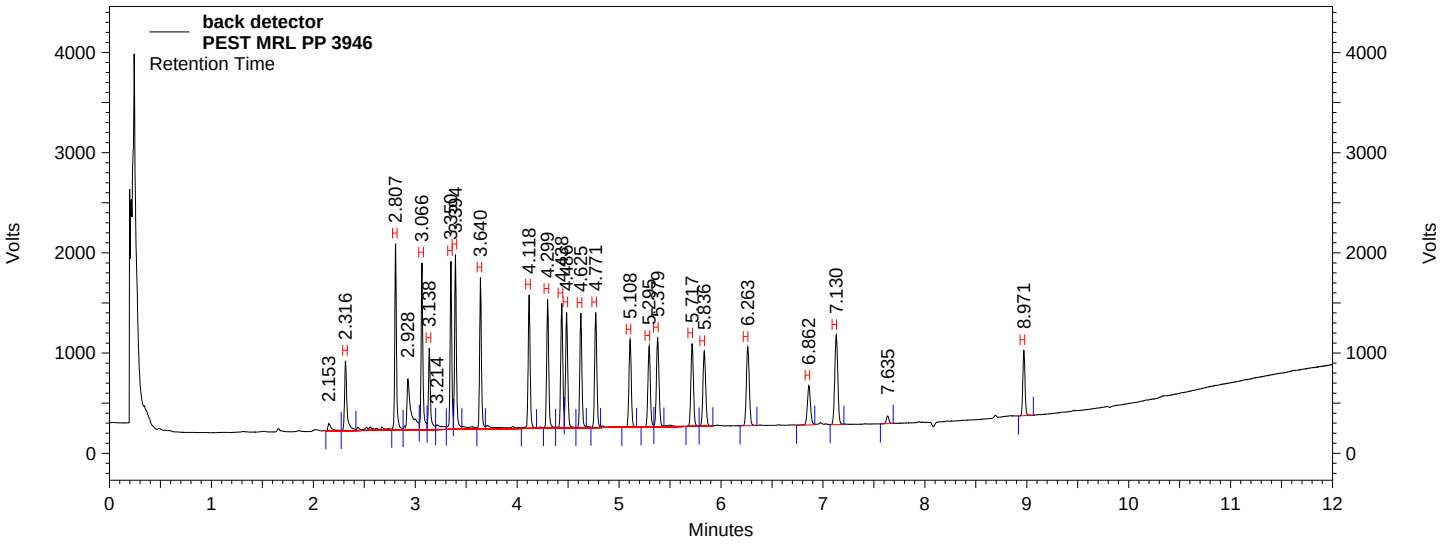
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.434	4506222	6.3693
ALPHABHC	2.877	7849863	0.0023
LINDANE	3.118	7176389	0.0024
BETABHC	3.184	4394493	0.0029
DELTABHC	3.319	7270587	0.0026
HEPTACHLOR	3.500	7164047	0.0026
ALDRIN	3.739	6425787	0.0025
HEPTAEPOX	4.241	6066861	0.0025
GAMMACHLOR	4.362	5891760	0.0025
ALPHACHLOR	4.487	5709169	0.0024
44DDE	4.582	3800634	0.0024
ENDOI	4.602	6817680	0.0024
DIELDRIN	4.848	5614989	0.0024
ENDRIN	5.091	4809133	0.0025
44DDD	5.203	4032543	0.0024
ENDOII	5.343	4979482	0.0023
44DDT	5.549	4343302	0.0024
ENDRINALDEH	5.860	4599118	0.0025
METHOXYCL	6.264	2623325	0.0026
ENDOSULFATE	6.473	4832559	0.0024
ENDRINKETONE	6.923	5729339	0.0026
SURRDCBPEST	8.567	3703203	6.4138

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\036.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MRL PP 3946
Acquired: Aug 23,2013 20:12:59
Printed: Aug 24,2013 21:52:01

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.316	8726585	6.3383
ALPHABHC	2.807	16864929	0.0024
LINDANE	3.066	15595510	0.0026
BETABHC	3.138	8290245	0.0028
DELTABHC	3.350	14649588	0.0024
HEPTACHLOR	3.394	16051644	0.0024
ALDRIN	3.640	14258576	0.0024
HEPTAEPOX	4.118	13925428	0.0025
GAMMACHLOR	4.299	13872283	0.0024
ALPHACHLOR	4.438	13326195	0.0024
ENDOI	4.486	13065140	0.0024
44DDE	4.625	12502015	0.0024
DIELDRIN	4.771	13224840	0.0024
ENDRIN	5.108	10770252	0.0024
44DDD	5.295	10168223	0.0024
ENDOII	5.379	12098218	0.0024
44DDT	5.717	11069028	0.0024
ENDRINALDEH	5.836	10963737	0.0025
ENDOSULFATE	6.263	11981546	0.0025
METHOXYCL	6.862	6338109	0.0025
ENDRINKETONE	7.130	14214557	0.0023
SURRDCBPEST	8.971	7454031	6.4904

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:52:03

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\036.dat	PEST MRL PP 3946	Aug 24,2013 21:52:02

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	6.369	6.154	30.000	Passed
ALPHABHC	0.002	0.002	2.423	30.000	Passed
LINDANE	0.002	0.002	1.098	30.000	Passed
BETABHC	0.002	0.003	22.146	30.000	Passed
DELTABHC	0.002	0.003	6.536	30.000	Passed
HEPTACHLOR	0.002	0.003	7.642	30.000	Passed
ALDRIN	0.002	0.003	5.171	30.000	Passed
HEPTAEPOX	0.002	0.003	4.347	30.000	Passed
GAMMACHLOR	0.002	0.002	3.673	30.000	Passed
ALPHACHLOR	0.002	0.002	1.526	30.000	Passed
44DDE	0.002	0.002	1.534	30.000	Passed
ENDOI	0.002	0.002	0.332	30.000	Passed
DIELDRIN	0.002	0.002	0.412	30.000	Passed
ENDRIN	0.002	0.002	3.803	30.000	Passed
44DDD	0.002	0.002	1.644	30.000	Passed
ENDOII	0.002	0.002	2.688	30.000	Passed
44DDT	0.002	0.002	0.042	30.000	Passed
ENDRINALDEH	0.002	0.002	2.921	30.000	Passed
METHOXYCL	0.002	0.003	6.721	30.000	Passed
ENDOSULFATE	0.002	0.002	1.864	30.000	Passed
ENDRINKETONE	0.002	0.003	7.416	30.000	Passed
SURRDCBPEST	6.000	6.414	6.897	30.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	6.000	6.338	5.638	30.000	Passed
ALPHABHC	0.002	0.002	1.649	30.000	Passed
LINDANE	0.002	0.003	7.162	30.000	Passed
BETABHC	0.002	0.003	16.833	30.000	Passed
DELTABHC	0.002	0.002	1.477	30.000	Passed
HEPTACHLOR	0.002	0.002	0.905	30.000	Passed
ALDRIN	0.002	0.002	0.133	30.000	Passed
HEPTAEPOX	0.002	0.002	2.877	30.000	Passed
GAMMACHLOR	0.002	0.002	1.546	30.000	Passed
ALPHACHLOR	0.002	0.002	0.943	30.000	Passed
ENDOI	0.002	0.002	1.529	30.000	Passed
44DDE	0.002	0.002	1.678	30.000	Passed
DIELDRIN	0.002	0.002	0.295	30.000	Passed
ENDRIN	0.002	0.002	1.427	30.000	Passed
44DDD	0.002	0.002	0.533	30.000	Passed
ENDOII	0.002	0.002	1.781	30.000	Passed
44DDT	0.002	0.002	0.422	30.000	Passed
ENDRINALDEH	0.002	0.003	4.621	30.000	Passed
ENDOSULFATE	0.002	0.002	3.565	30.000	Passed
METHOXYCL	0.002	0.003	5.596	30.000	Passed

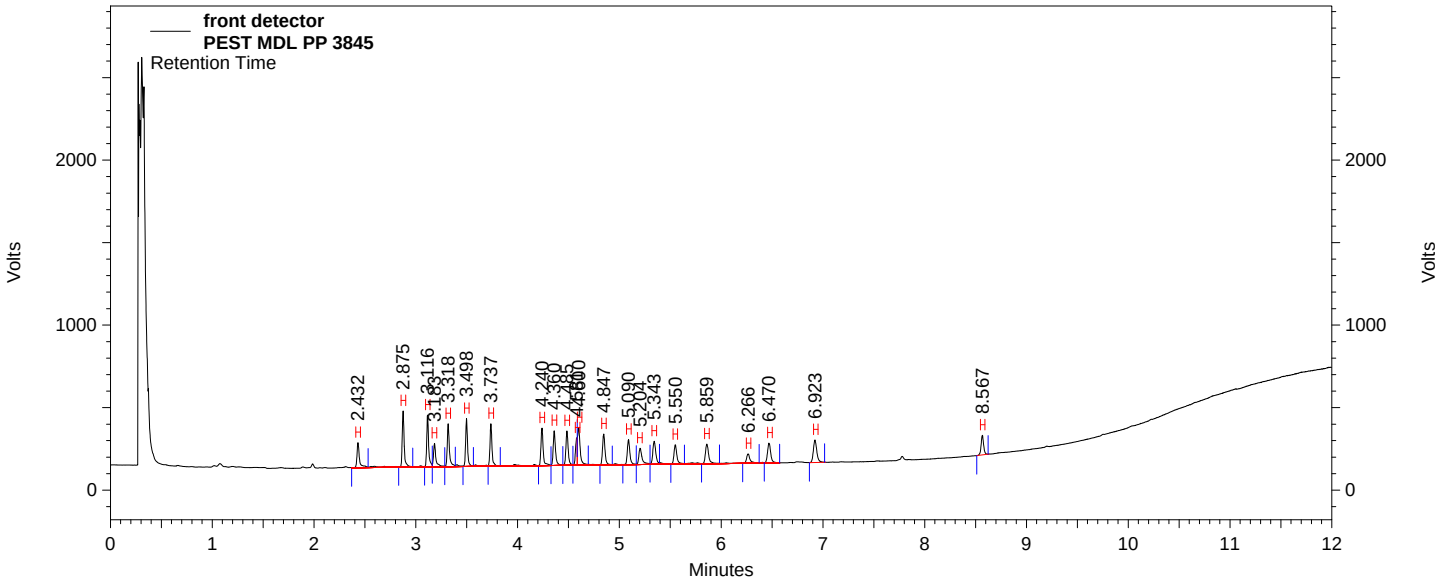
Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:52:03

ENDRINKETONE	0.002	0.002	3.199	30.000	**Passed**
SURRDCBPEST	6.000	6.490	8.173	30.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\037.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MDL PP 3845
Acquired: Aug 23,2013 20:29:40
Printed: Aug 24,2013 21:52:05

Data Summary: {Data Description}



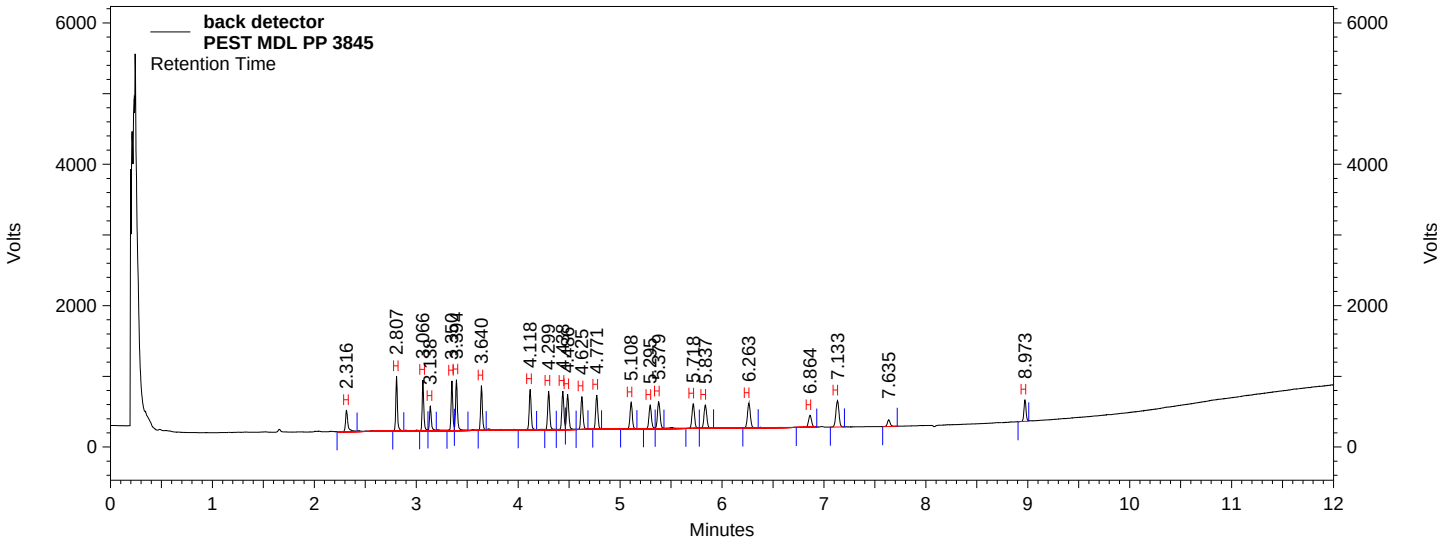
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.432	2010266	2.6715
ALPHABHC	2.875	3528106	0.0011
LINDANE	3.116	3199239	0.0011
BETABHC	3.183	1827389	0.0011
DELTABHC	3.318	2948457	0.0011
HEPTACHLOR	3.498	3000489	0.0011
ALDRIN	3.737	2699973	0.0011
HEPTAEPOX	4.240	2680846	0.0011
GAMMACHLOR	4.360	2550258	0.0011
ALPHACHLOR	4.485	2504069	0.0011
44DDE	4.581	1391719	0.0011
ENDOI	4.600	3173389	0.0011
DIELDRIN	4.847	2441120	0.0011
ENDRIN	5.090	2052257	0.0011
44DDD	5.204	1729639	0.0011
ENDOII	5.343	2224801	0.0011
44DDT	5.550	1820760	0.0011
ENDRINALDEH	5.859	2075816	0.0011
METHOXYCL	6.266	1087336	0.0011
ENDOSULFATE	6.470	2088395	0.0011
ENDRINKETONE	6.923	2456547	0.0011
SURRDCBPEST	8.567	1596224	2.5296

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\037.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313pst.met
User: JJY
Sample ID: PEST MDL PP 3845
Acquired: Aug 23,2013 20:29:40
Printed: Aug 24,2013 21:52:05

Data Summary: {Data Description}



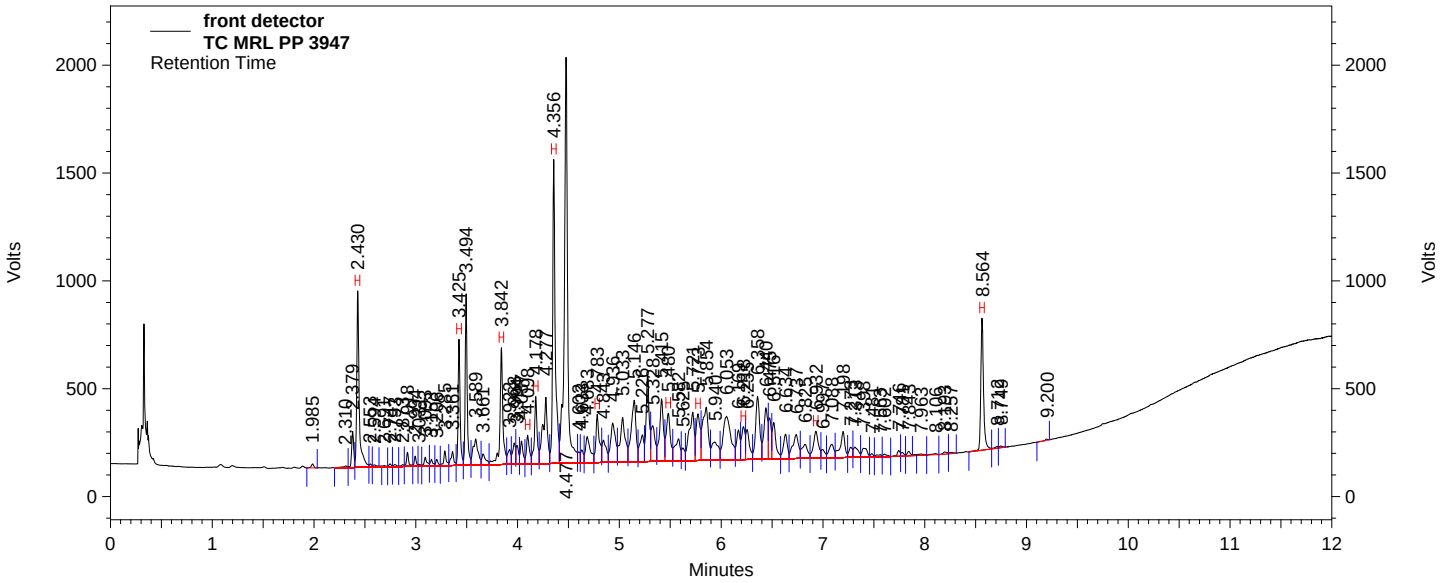
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.316	3823006	2.7569
ALPHABHC	2.807	6885624	0.0011
LINDANE	3.066	6290937	0.0011
BETABHC	3.138	3404522	0.0010
DELTABHC	3.350	6163765	0.0011
HEPTACHLOR	3.394	7046831	0.0011
ALDRIN	3.640	5969125	0.0011
HEPTAEPOX	4.118	6200316	0.0011
GAMMACHLOR	4.299	5992370	0.0011
ALPHACHLOR	4.438	5840863	0.0011
ENDOI	4.486	5684173	0.0011
44DDE	4.625	5352777	0.0011
DIELDRIN	4.771	5655788	0.0011
ENDRIN	5.108	4664855	0.0011
44DDD	5.295	4382086	0.0011
ENDOII	5.379	5319655	0.0011
44DDT	5.718	4769319	0.0011
ENDRINALDEH	5.837	4982399	0.0011
ENDOSULFATE	6.263	5361252	0.0011
METHOXYCL	6.864	2838190	0.0011
ENDRINKETONE	7.133	6129472	0.0010
SURRDCBPEST	8.973	3310574	2.5454

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\038.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MRL PP 3947
Acquired: Aug 23,2013 20:46:23
Printed: Aug 24,2013 21:52:08

Data Summary: {Data Description}



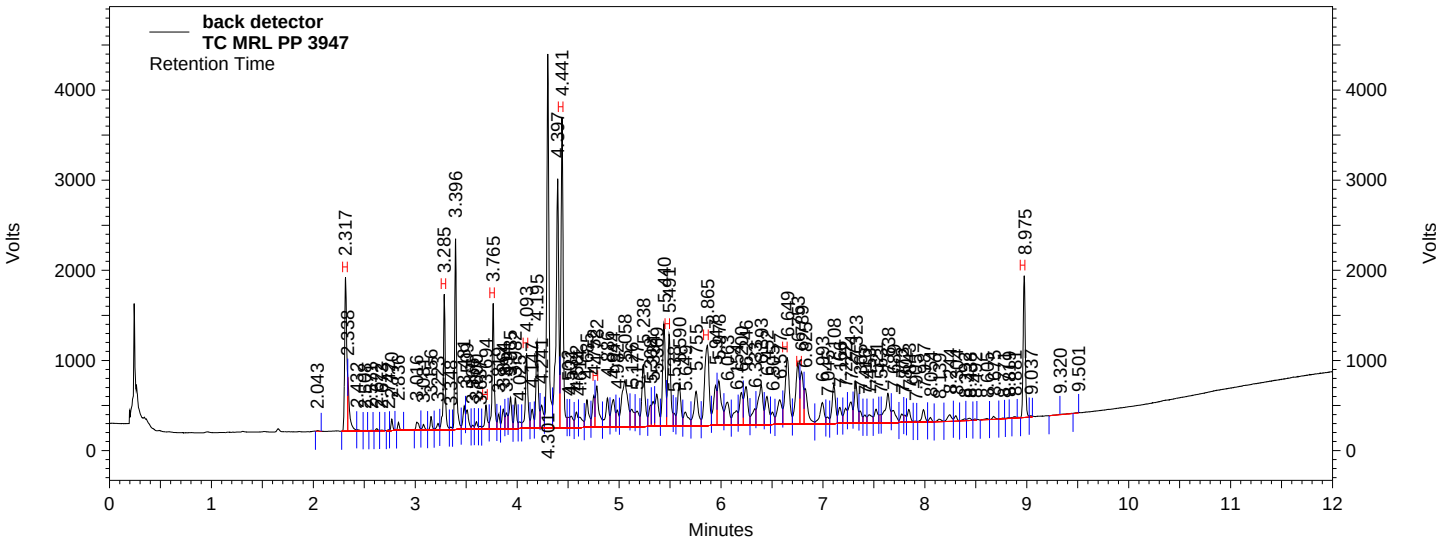
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.430	10667645	15.0158
Chlordane #1	3.425	6121652	0.0123
Chlordane #2	3.842	8385626	0.0127
Chlordane #3	4.098	2115471	0.0126
Chlordane #4	4.178	4571105	0.0125
Chlordane #5	4.356	19505707	0.0119
Toxaphene #1	4.783	4049140	0.0126
Toxaphene #2	5.480	4821371	0.0124
Toxaphene #3	5.773	4566930	0.0126
Toxaphene #4	6.218	2798343	0.0114
Toxaphene #5	6.932	3218999	0.0111
SURRDCBPEST	8.564	8776967	15.0789
Chlordane		40699561	0.0620
Toxaphene		19454783	0.0602

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\038.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MRL PP 3947
Acquired: Aug 23,2013 20:46:23
Printed: Aug 24,2013 21:52:08

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.317	19095934	15.1506
Chlordane #1	3.285	14975526	0.0125
Chlordane #2	3.694	3476101	0.0124
Chlordane #3	3.765	15439212	0.0129
Chlordane #4	4.093	10958641	0.0127
Chlordane #5	4.441	39065442	0.0125
Toxaphene #1	4.782	8274213	0.0127
Toxaphene #2	5.491	15697959	0.0122
Toxaphene #3	5.865	20935425	0.0122
Toxaphene #4	6.649	16594713	0.0123
Toxaphene #5	6.789	9738654	0.0120
SURRDCBPEST	8.975	17849940	15.2937
Chlordane		83914922	0.0630
Toxaphene		71240964	0.0613

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\082313pst.seq
User : JJY
Printed : Aug 24,2013 21:52:09

File	Sample ID	Acquired
C:\Instarch\Semi1\data\082313pst\038.dat	TC MRL PP 3947	Aug 24,2013 21:52:09

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	15.016	4.276	30.000	Passed
Chlordane #1	0.012	0.012	2.781	30.000	Passed
Chlordane #2	0.012	0.013	6.144	30.000	Passed
Chlordane #3	0.012	0.013	4.648	30.000	Passed
Chlordane #4	0.012	0.012	4.015	30.000	Passed
Chlordane #5	0.012	0.012	0.750	30.000	Passed
Toxaphene #1	0.012	0.013	5.323	30.000	Passed
Toxaphene #2	0.012	0.012	3.483	30.000	Passed
Toxaphene #3	0.012	0.013	4.710	30.000	Passed
Toxaphene #4	0.012	0.011	4.614	30.000	Passed
Toxaphene #5	0.012	0.011	7.378	30.000	Passed
SURRDCBPEST	14.400	15.079	4.714	30.000	Passed
Chlordane	0.060	0.062	3.368	30.000	Passed
Toxaphene	0.060	0.060	0.305	30.000	Passed

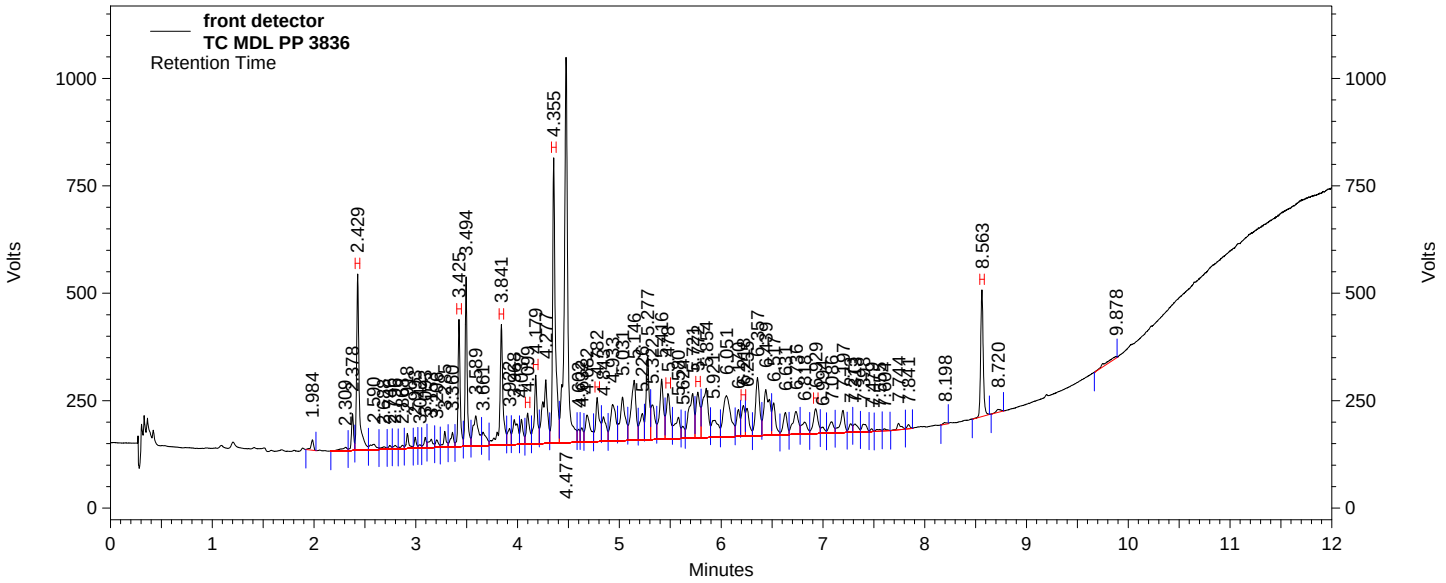
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	14.400	15.151	5.213	30.000	Passed
Chlordane #1	0.012	0.013	4.286	30.000	Passed
Chlordane #2	0.012	0.012	2.983	30.000	Passed
Chlordane #3	0.012	0.013	7.860	30.000	Passed
Chlordane #4	0.012	0.013	5.906	30.000	Passed
Chlordane #5	0.012	0.013	4.374	30.000	Passed
Toxaphene #1	0.012	0.013	6.022	30.000	Passed
Toxaphene #2	0.012	0.012	1.264	30.000	Passed
Toxaphene #3	0.012	0.012	1.568	30.000	Passed
Toxaphene #4	0.012	0.012	2.332	30.000	Passed
Toxaphene #5	0.012	0.012	0.026	30.000	Passed
SURRDCBPEST	14.400	15.294	6.207	30.000	Passed
Chlordane	0.060	0.063	5.082	30.000	Passed
Toxaphene	0.060	0.061	2.232	30.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\082313pst\039.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MDL PP 3836
Acquired: Aug 23,2013 21:03:07
Printed: Aug 24,2013 21:52:12

Data Summary: {Data Description}



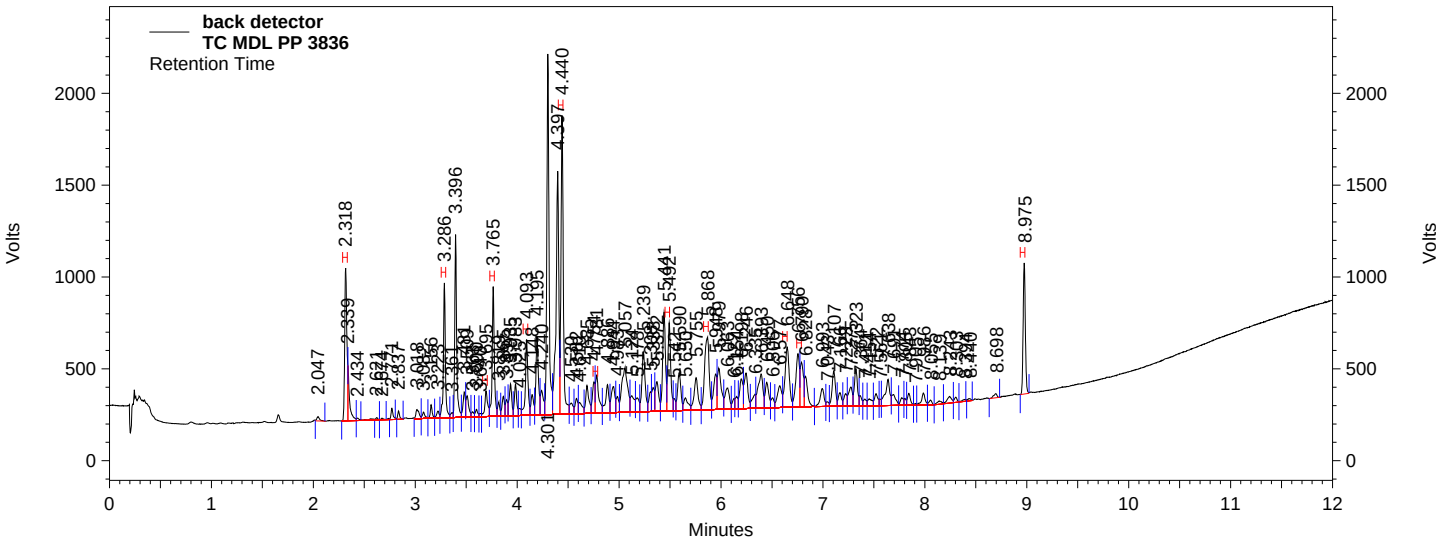
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.429	5583631	7.8595
Chlordane #1	3.425	3311384	0.0067
Chlordane #2	3.841	4646505	0.0071
Chlordane #3	4.099	1200306	0.0071
Chlordane #4	4.179	2494822	0.0068
Chlordane #5	4.355	9779177	0.0060
Toxaphene #1	4.782	1988979	0.0062
Toxaphene #2	5.478	2251048	0.0058
Toxaphene #3	5.772	2280734	0.0063
Toxaphene #4	6.218	1304642	0.0053
Toxaphene #5	6.929	1397000	0.0048
SURRDCBPEST	8.563	3977771	6.8338
Chlordane		21432194	0.0336
Toxaphene		9222403	0.0284

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\082313pst\039.dat
Method: C:\Instarch\Semi1\Methods\Pest\082213pstic\082313tc.met
User: JJY
Sample ID: TC MDL PP 3836
Acquired: Aug 23,2013 21:03:07
Printed: Aug 24,2013 21:52:12

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	2.318	9536564	7.5663
Chlordane #1	3.286	7643689	0.0064
Chlordane #2	3.695	2123451	0.0075
Chlordane #3	3.765	7959901	0.0067
Chlordane #4	4.093	5533458	0.0064
Chlordane #5	4.440	19659707	0.0063
Toxaphene #1	4.754	2193162	0.0034
Toxaphene #2	5.492	7300187	0.0057
Toxaphene #3	5.868	9447410	0.0055
Toxaphene #4	6.648	7297366	0.0054
Toxaphene #5	6.756	5519448	0.0068
SURRDCBPEST	8.975	8187155	7.0147
Chlordane		42920206	0.0333
Toxaphene		31757573	0.0267

PESTICIDE
LOGBOOK
DOCUMENTS

S PEST Analytical Run
96883 on 8/19/2013

Date Analyzed: _____ JJY 9/4/13

Date Entered: _____

Date Reviewed: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339561		8/15/2013 0930		ECC	RVAAP	PESTICIDES QSM		GW	**4**	
		083SB-0023-0001-ER						45504			
99336	339570		8/15/2013 1218		ECC	APG	PESTICIDES QSM		GW	**2**	Y
		CC-EFF-081513						45504			
	339717						PESTICIDES QSM				
				MBW				45504			
	339718						PESTICIDES QSM				
				LCSW				45504			

4 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 8/19/2013

Prep Batch **45,504** Date Prepped: 8/19/2013 Prepped By JLH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	339717	MBW		PESTICIDES QSM	LIQUID	10		1.00		
	339718	LCSW		PESTICIDES QSM	LIQUID	10		1.00		
99335	339561			PESTICIDES QSM	GROUND WATER	10		1.00	N	
99336	339570			PESTICIDES QSM	GROUND WATER	10		0.99	N	

Notes:_____

Pesticides/PCB Extraction Bench Sheet

(SOP Reference #'s 8081 & 8082)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	45504
Prep Method:	3510
Analyst:	JLH
Date:	8/19/2013
Start Time:	8:00
End Date:	8/19/2013
End Time:	15:00

Analysis Methods
8081 = Pesticides
8082 = PCBs

Matrix: WATER
Balance Used: NA
Ave MW Temp (°C): NA

Reagent Lots>>>

NA_2SO_4	SV0081
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	49542
Acetone	NA
Hexane	43501

Concentration By: JLH/AMA
Concentration Date: 8/19/2013

Microwave Cell #	Sample ID	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)
	339717	(MB)		1.00	10
	339718	(LCS)		1.00	10
	339561			1.00	10
	339570			0.99	10
					10
	T/C			1.00	10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
		(MS) Parent Sample			10
		(MSD)			10

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike, MSD=Matrix Spike Duplicate, Tox=Toxaphene & Chlor=Technical chlordane

MS/MSD/ LCS Spike Amount (ml): 0.5
Spike Concentration (ug/mL): 0.8
Spike Reference #: PP 3831

Surrogate Spike Amount (ml): 0.5
Surrogate Spike Conc. (ug/mL): 0.5
Surrogate Spike Reference #: PP 3886

Tox/Chlor Spike Amount (ml): 0.5
Tox/Chlor Spike Conc. (ug/mL): 5

Tox/Chlor Spike Reference: PP 3832

Relinquished to: JJY
Date: 8/19/2013

Reviewed By: JJY
Date: 8/19/2013

Table 4

8081 Pesticide Analysis Data Review Checklist

Analytical Run #: 96883	**Independent Reviewer: RED**
Sequence Date: 08/23/2013	**Date of Review: 08/26/2013**
Analyst/Data Interpreter: JJY	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Pesticide initial calibration performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Was there initial calibration performed using a minimum of five varying standard concentration levels for Toxaphene and tech-Chlordane.		**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line	RSD<20%, r^2>0.990, or r>0.990	**Yes**		**Yes**		
d. Was each ICAL uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
e. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
f. Was there an Evaluation standard injected prior to initial calibration?	Breakdown ≤15%	**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?		**Yes**		**Yes**		
b. Were the recoveries for the ICVs within program limits?	Second source	**Yes**		**Yes**		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run.		**Yes**		**Yes**		
b. Were there a CCV for Toxaphene and tech-Chlordane at the beginning or at the end of the analytical sequence?		**Yes**		**Yes**		
c. Were the recoveries for the CCVs within program limits?		**Yes**		**Yes**		
d. Was each CCV uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 96883

Table 4

8081 Pesticide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was there a Toxaphene and tech-Chlordane LCS preformed	Batch <20 samples	**Yes**		**Yes**		
c. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	No MS/MSD. Limited sample volume.
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**NA**		**NA**		
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	No MS/MSD. Limited sample volume.
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**NA**		**NA**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**NA**		**NA**		

Additional Comments:

Analytical Run #: 96883

Table 4

8081 Pesticide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. florisil, GPC, and sulfur treatment)	Florisil, GPC, and/or Sulfur Treatments	**Yes**		**Yes**		Sulfur treatment.
f. Was there a hexane injection performed prior to sample analysis?		**Yes**		**Yes**		
g. Was there a priming standard injected prior to sample analysis?		**Yes**		**Yes**		
h. Was there an Eval standard injected prior to sample analysis and every twelve hours?	Breakdown $\leq$15%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transferred to PDF format?		**Yes**		**Yes**		
b. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		**Yes**		**Yes**		
c. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		

Additional Comments:

S PEST Analytical Run
97001 on 8/22/2013

Date Analyzed: _____ JJY 9/4/13

Date Entered: _____

Date Reviewed: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339578		8/15/2013 0835		ECC	RVAAP	PESTICIDES QSM TCLP		M	**4**	
		083SB-0022-0001-IDW						45551			
99335	339580		8/15/2013 0900		ECC	RVAAP	PESTICIDES QSM TCLP		M	**4**	
		083SB-0021-0001-IDW						45551			
	340732						PESTICIDES QSM TCLP				
				MBW				45551			
	340733						PESTICIDES QSM TCLP				
				LCSW				45551			
	340735		8/15/2013 0835				PESTICIDES QSM TCLP				
		083SB-0022-0001-IDW		MSW 339578				45551			

5 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 8/22/2013

Prep Batch **45,551** Date Prepped: 8/21/2013 Prepped By JLH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	340732	MBW		PESTICIDES QSM TCLP	LIQUID	10		1.00		
	340733	LCSW		PESTICIDES QSM TCLP	LIQUID	10		1.00		
99335	339578			PESTICIDES QSM TCLP	TCLP	10		0.10	N	
	339580			PESTICIDES QSM TCLP	TCLP	10		0.10	N	
	340735	MSW	339578	PESTICIDES QSM TCLP	TCLP	10		0.10		

Notes:_____

Pesticides/PCB Extraction Bench Sheet

(SOP Reference #'s 8081 & 8082)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	45551
Prep Method:	3510/8081
Analyst:	JLH
Date:	8/21/2013
Start Time:	8:00
End Date:	8/22/2013
End Time:	10:10

Analysis Methods
8081 = Pesticides
8082 = PCBs

Matrix: TCLP
Balance Used: NA
Ave MW Temp (°C): NA

Reagent Lots>>>

NA_2SO_4	SV0081
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	49542
Acetone	NA
Hexane	43501

Concentration By: JLH

Concentration Date: 8/22/2013

Microwave Cell #	Sample ID	Comments		(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)
	340732	(MB)			1.00	10
	340733	(LCS)			1.00	10
	339578				0.10	10
	339580				0.10	10
	SBLANK 2364				0.10	10
	VBLANK 2364				0.10	10
	T/C				1.00	10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
						10
	340735	(MS)	Parent Sample		0.10	10
		(MSD)	339578			10

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike, MSD=Matrix Spike Duplicate, Tox=Toxaphene & Chlor=Technical chlordane

MS/MSD/ LCS Spike Amount (ml): 0.5
Spike Concentration (ug/mL): 0.8
Spike Reference #: PP 3831

Surrogate Spike Amount (ml): 0.5
Surrogate Spike Conc. (ug/mL): 0.5
Surrogate Spike Reference #: PP 3886

Tox/Chlor Spike Amount (ml): 0.5
Tox/Chlor Spike Conc. (ug/mL): 5

Tox/Chlor Spike Reference: PP 3832

Relinquished to: JJY
Date: 8/22/2013

Reviewed By: JJY
Date: 8/22/2013

Table 4

8081 Pesticide Analysis Data Review Checklist

Analytical Run #: 97001	**Independent Reviewer: SRT**
Sequence Date: 08-23-2013	**Date of Review: 08-26-2013**
Analyst/Data Interpreter: JJY	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Pesticide initial calibration performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Was there initial calibration performed using a minimum of five varying standard concentration levels for Toxaphene and tech-Chlordane.		**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line	RSD<20%, r^2>0.990, or r>0.990	**Yes**		**Yes**		
d. Was each ICAL uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
e. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
f. Was there an Evaluation standard injected prior to initial calibration?	Breakdown ≤15%	**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?		**Yes**		**Yes**		
b. Were the recoveries for the ICVs within program limits?	Second source	**Yes**		**Yes**		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run.		**Yes**		**Yes**		
b. Were there a CCV for Toxaphene and tech-Chlordane at the beginning or at the end of the analytical sequence?		**Yes**		**Yes**		
c. Were the recoveries for the CCVs within program limits?		**Yes**		**Yes**		
d. Was each CCV uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 97001

Table 4

8081 Pesticide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits		**No**		**No**	See below
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was there a Toxaphene and tech-Chlordane LCS preformed	Batch <20 samples	**Yes**		**Yes**		
c. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	MS only per TCLP
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits					
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits					

Additional Comments:

The MB had a hit for alph chlordane of 0.0016 ug/ml. Both samples 339580 and 339578 also had hits for alpha chlordane >5% of the MBs value. The samples were "B" flagged.

Analytical Run #: 97001

Table 4

8081 Pesticide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. florisil, GPC, and sulfur treatment)	Florisil, GPC, and/or Sulfur Treatments	**Yes**		**Yes**		GPC, sulfur
f. Was there a hexane injection performed prior to sample analysis?		**Yes**		**Yes**		
g. Was there a priming standard injected prior to sample analysis?		**Yes**		**Yes**		
h. Was there an Eval standard injected prior to sample analysis and every twelve hours?	Breakdown $\leq$15%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transferred to PDF format?		**Yes**		**Yes**		
b. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		**Yes**		**Yes**		
c. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		

Additional Comments:

Summary Report

JJY
9/4/13

Instrument ID: **Semi 1**
Data Path: **C:\Instarch\Semi1\Sequence\082213pstic.seq**
User ID: **JJY**
Printed Date: **Aug 22,2013 15:37:19**

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	EVAL PP 3833	001.dat	eval.met	Aug 22,2013 15:25:19	Breakdown A: Endrin 6.6...
2	Pest Prime PP3851	002.dat	082213pstic.met	Aug 22,2013 15:41:54	
3	Hexane	003.dat	082213pstic.met	Aug 22,2013 15:58:30	
4	Pest ICAL 1 PP 3845	004.dat	082213pstic.met	Aug 22,2013 16:15:07	
5	Pest ICAL 2 PP 3846	005.dat	082213pstic.met	Aug 22,2013 16:31:51	
6	Pest ICAL 3 PP 3847	006.dat	082213pstic.met	Aug 22,2013 16:48:30	
7	Pest ICAL 4 PP 3848	007.dat	082213pstic.met	Aug 22,2013 17:05:16	
8	Pest ICAL 5 PP 3849	008.dat	082213pstic.met	Aug 22,2013 17:21:57	
9	Pest ICAL 6 PP 3850	009.dat	082213pstic.met	Aug 22,2013 17:38:41	
10	Pest ICAL 7 PP 3851	010.dat	082213pstic.met	Aug 22,2013 17:55:25	
11	Pest ICV 1 PP 3852	011.dat	082213pstic.met	Aug 22,2013 18:12:07	
12	Pest ICV 2 PP 3853	012.dat	082213pstic.met	Aug 22,2013 18:28:56	
13	Hexane	013.dat	082213pstic.met	Aug 22,2013 18:45:45	
14	TC ICAL 1 PP 3838	014.dat	082213tcic.met	Aug 22,2013 19:02:30	
15	TC ICAL 2 PP 3839	015.dat	082213tcic.met	Aug 22,2013 19:19:15	
16	TC ICAL 3 PP 3840	016.dat	082213tcic.met	Aug 22,2013 19:35:54	
17	TC ICAL 4 PP 3841	017.dat	082213tcic.met	Aug 22,2013 19:52:35	
18	TC ICAL 5 PP 3842	018.dat	082213tcic.met	Aug 22,2013 20:09:12	
19	TC ICAL 6 PP 3843	019.dat	082213tcic.met	Aug 22,2013 20:25:49	
20	TC ICV PP 3844	020.dat	082213tcic.met	Aug 22,2013 20:42:27	

Summary Report

Instrument ID: Semi 1
Data Path: C:\Instarch\Semi1\Sequence\082313pst.seq
User ID: JJY
Printed Date: Aug 23,2013 16:10:01

JJY
9/4/13

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	EVAL PP 3833	001.dat	eval.met	Aug 23,2013 10:04:03	Breakdown A: Endrin 7.9...
2	Pest Prime PP3851	002.dat	082313pst.met	Aug 23,2013 10:20:34	
3	Hexane	003.dat	082313pst.met	Aug 23,2013 10:37:13	
4	Pest CCV PP 3935	004.dat	082313pst.met	Aug 23,2013 10:53:51	
5	TC CCV PP 3936	005.dat	082313tc.met	Aug 23,2013 11:10:30	
6	PEST MRL PP 3946	006.dat	082313pst.met	Aug 23,2013 11:40:52	
7	PEST MDL PP 3845	007.dat	082313pst.met	Aug 23,2013 11:57:33	
8	TC MRL PP 3947	008.dat	082313tc.met	Aug 23,2013 12:14:15	
9	TC MDL PP 3836	009.dat	082313tc.met	Aug 23,2013 12:30:56	
10	96883,MBW,	010.dat	082313pst.met	Aug 23,2013 12:59:15	
11	96883,LCSW,	011.dat	082313pst.met	Aug 23,2013 13:15:54	
12	96883,LCSW TC	012.dat	082313tc.met	Aug 23,2013 13:32:39	
13	96883,339561,	013.dat	082313pst.met	Aug 23,2013 13:49:22	
14	96883,339570,	014.dat	082313pst.met	Aug 23,2013 14:06:05	
15	Pest CCV PP 3935	015.dat	082313pst.met	Aug 23,2013 14:22:51	
16	TC CCV PP 3936	016.dat	082313tc.met	Aug 23,2013 14:39:29	
17	97001,MBTS	017.dat	082313pst.met	Aug 23,2013 14:56:11	
18	97001,MBTV	018.dat	082313pst.met	Aug 23,2013 15:12:48	
19	97001,MBW,	019.dat	082313pst.met	Aug 23,2013 15:29:27	
20	97001,LCSW,	020.dat	082313pst.met	Aug 23,2013 15:46:05	
21	97001,LCSW TC	021.dat	082313tc.met	Aug 23,2013 16:02:45	
22	97001,339580,	022.dat	082313pst.met	Aug 23,2013 16:19:24	
23	97001,339578,	023.dat	082313pst.met	Aug 23,2013 16:36:11	
24	97001,MSW339578,	024.dat	082313pst.met	Aug 23,2013 16:52:54	
25	Pest CCV PP 3935	025.dat	082313pst.met	Aug 23,2013 17:09:35	
26	TC CCV PP 3936	026.dat	082313tc.met	Aug 23,2013 17:26:17	
27	96970,MBS,	027.dat	082313pst.met	Aug 23,2013 17:42:58	
28	96970,LCSS,	028.dat	082313pst.met	Aug 23,2013 17:59:40	
29	96970,LCSS TC	029.dat	082313tc.met	Aug 23,2013 18:16:17	
30	96970,338375,	030.dat	082313pst.met	Aug 23,2013 18:32:54	
31	96970,338369,	031.dat	082313pst.met	Aug 23,2013 18:49:32	
32	96970,MSS338369,	032.dat	082313pst.met	Aug 23,2013 19:06:14	
33	96970,MSDS338369,	033.dat	082313pst.met	Aug 23,2013 19:22:55	
34	Pest CCV PP 3935	034.dat	082313pst.met	Aug 23,2013 19:39:35	
35	TC CCV PP 3936	035.dat	082313tc.met	Aug 23,2013 19:56:18	
36	PEST MRL PP 3946	036.dat	082313pst.met	Aug 23,2013 20:12:59	
37	PEST MDL PP 3845	037.dat	082313pst.met	Aug 23,2013 20:29:40	
38	TC MRL PP 3947	038.dat	082313tc.met	Aug 23,2013 20:46:23	
39	TC MDL PP 3836	039.dat	082313tc.met	Aug 23,2013 21:03:07	

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3823	PCB LL ICV	Hexane	11-Mar-13 JJY 07-Sep-13	PP3772	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3824	1221 LL ICV	JT Baker	14-Jun-13	PP3773	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3825	1232 LL ICV	lot 23181		PP3774	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3826	1242 LL ICV			PP3775	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3827	1248 LL ICV			PP3776	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3828	1254 LL ICV			PP3747	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3829	1262 LL ICV			PP3777	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3830	1268 LL ICV			PP3758	10	ug/mL	0.200	10.0	0.20	ug/ml

JJY 3/11/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3831	PEST SPIKE	Acetone	13-Mar-13 JJY 11-Sep-13	S2650	200	ug/mL	0.200	50.0	0.80	ug/ml
		JT Baker								
PP 3832	Tox/Chlor SPIKE	lot J14E52		S2655	1000	ug/mL	0.250	50.0	5.00	ug/ml
				S2653	1000	ug/mL	0.250	50.0	5.00	ug/ml

JJY 3/13/13

JJY 3/13/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3833	PEST EVAL	Hexane JT Baker lot K49E36	13-Mar-13 JJY 11-Sep-13	S2652						
				Endrin	100	ug/mL	0.020	50.0	0.040	ug/ml
				DDT	200	ug/mL	0.020	50.0	0.080	ug/ml
PP 3834	PEST ICAL Stock			S2650	200	ug/mL	0.100	10.0	2.00	ug/ml
				S2766B	200	ug/mL	0.0625	10.0	1.25	ug/ml
PP 3835	PEST ICV Stock			S2651	200	ug/mL	0.100	10.0	2.00	ug/ml
				S2766B	200	ug/mL	0.0625	10.0	1.25	ug/ml
PP 3836	Tox/Chlor Stock			S2655	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2653	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.030	10.0	0.600	ug/ml
PP 3837	Tox/Chlor ICV Stock			S2656	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2654	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.030	10.0	0.600	ug/ml
PP 3838	Tox/Chlor 1			PP 3836	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3839	Tox/Chlor 2			PP 3836	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3840	Tox/Chlor 3			PP 3836	10	ug/mL	0.100	10.0	0.10	ug/ml
PP 3841	Tox/Chlor 4			PP 3836	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3842	Tox/Chlor 5			PP 3836	10	ug/mL	0.400	10.0	0.40	ug/ml
PP 3843	Tox/Chlor 6			PP 3836	10	ug/mL	0.600	10.0	0.60	ug/ml
PP 3844	Tox/Chlor ICV			PP 3837	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3845	PEST ICAL 1			PP 3834	2.00	ug/mL	0.005	10.0	0.001	ug/ml
PP 3846	PEST ICAL 2			PP 3834	2.00	ug/mL	0.025	10.0	0.005	ug/ml
PP 3847	PEST ICAL 3			PP 3834	2.00	ug/mL	0.050	10.0	0.010	ug/ml
PP 3848	PEST ICAL 4			PP 3834	2.00	ug/mL	0.100	10.0	0.020	ug/ml
PP 3849	PEST ICAL 5			PP 3834	2.00	ug/mL	0.200	10.0	0.040	ug/ml
PP 3850	PEST ICAL 6			PP 3834	2.00	ug/mL	0.250	10.0	0.050	ug/ml
PP 3851	PEST ICAL 7			PP 3834	2.00	ug/mL	0.350	10.0	0.070	ug/ml
PP 3852	PEST ICV			PP 3835	2.00	ug/mL	0.100	10.0	0.020	ug/ml
PP 3853	PEST ICV 2			PP 3835	2.00	ug/mL	0.200	10.0	0.040	ug/ml
PP 3854	PEST CCV			PP3834	2.00	ug/mL	0.200	10.0	0.040	ug/ml
PP 3855	Tox/Chlor CCV			PP3836	10.0	ug/mL	0.250	10.0	0.25	ug/ml

JJY 3/12/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3856	FM BP-6 CCV	Hexane JT Baker lot 23181	20-Mar-13 JJY 24-Jul-13	PP3723	10	ug/mL	0.200	10.0	0.20	ug/ml

JJY 3/20/13

JJY 3/22/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3881	PCB Spike	Acetone JT Baker lot K48E17	06-May-13 JJY 06-Nov-13	S2744 1000 ug/mL	0.500	50.0	10.00 ug/ml

JJY 5/6/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3882	HBB Stock	Hexane JT Baker lot 21949	06-Jun-13 JJY 06-Dec-13	S2637 2000 ug/mL	0.125	10.0	25.0 ug/ml
PP 3883	HBB/PBB Spike	Acetone JT Baker lot K48E17		S2744B 100 ug/mL PP3882 25 ug/mL	0.200 0.200	10.0 10.0	2.0 ug/ml 0.5 ug/ml

JJY 6/6/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3884	Pest/PCB Surrogates	Acetone JT Baker lot K48E17	14-Jun-13 JJY 14-Dec-13	S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3885	Pest/PCB Surrogates			S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3886	Pest/PCB Surrogates			S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3887	Pest/PCB Surrogates			S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3888	Pest/PCB Surrogates			S2819A 200 ug/mL	0.125	50.0	0.50 ug/ml

JJY 6/14/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3889	DDTs Spike	Acetone JT Baker lot K48E17	20-Jun-13 JJY 20-Dec-13	S2625 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2626 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2627 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2628 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2629 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2630 1000 ug/mL	0.040	50.0	0.80 ug/ml

6/20/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3925	Firemaster BP-6 Stock	Hexane JT Baker lot 38570	31-Jul-13 JJY 31-Jan-14	S2847B	100	ug/mL	0.500	5.0	10.0	ug/ml
				S2819B	200	ug/mL	0.0125	5.0	0.50	ug/ml
PP 3926	FM BP-6 ICAL 1			PP3925	10	ug/mL	0.010	10.0	0.01	ug/ml
PP 3927	FM BP-6 ICAL 2			PP3925	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3928	FM BP-6 ICAL 3			PP3925	10	ug/mL	0.100	10.0	0.10	ug/ml
PP 3929	FM BP-6 ICAL 4			PP3925	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3930	FM BP-6 ICAL 5			PP3925	10	ug/mL	0.400	10.0	0.40	ug/ml
PP 3931	FM BP-6 ICAL 6			PP3925	10	ug/mL	0.600	10.0	0.60	ug/ml
PP 3932	Pest Surrogates			S2819B	200	ug/mL	0.100	10.0	2.0	ug/ml
PP 3933	FM BP-6 ICV			S2636	100	ug/mL	0.020	10.0	0.2	ug/ml
				PP3932	2.0	ug/mL	0.050	10.0	0.010	ug/ml
PP 3934	FM BP-6 CCV			PP3925	10	ug/mL	0.200	10.0	0.20	ug/ml

JJY 7/31/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3935	PEST CCV	Hexane JT Baker lot 38570	02-Aug-13 JJY 11-Sep-13	PP3834	2.00	ug/mL	0.200	10.0	0.040	ug/ml
PP 3936	Tox/Chlor CCV			PP3836	10.0	ug/mL	0.250	10.0	0.25	ug/ml

JJY 8/2/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3946	Pest MRL	Hexane JT Baker lot 38570	23-Aug-13 JJY 11-Sep-13	PP 3846 0.0050 ug/mL	0.480	1.0	0.0024 ug/ml
PP 3947	Tox/chlor MRL			PP3843 0.6 ug/mL	0.100	1.0	0.060 ug/ml

JJY 9/23/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3948	Pest/PCB Surrogates	Acetone JT Baker lot K40219	26-Aug-13 SRT 26-Feb-14	S2766B 200 ug/mL	0.250	100.0	0.50 ug/ml

JJY 9/20/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3949	1254 Intermed standard	Hexane JT Baker lot 38570	30-Aug-13 SRT 28-Feb-14	S2827 1000 ug/mL	0.100	10.0	10.0 ug/ml
				S2875A 200 ug/mL	0.025	10.0	0.5 ug/ml
PP 3950	1254 2nd Srce standard			S2828 1000 ug/mL	0.100	10.0	10.0 ug/ml
				S2875A 200 ug/mL	0.025	10.0	0.5 ug/ml

JJY 9/30/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3951	1254 ICAL 1	Hexane JT Baker lot 38570	30-Aug-13 SRT 28-Feb-14	PP3949 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3952	1254 ICAL 2			PP3949 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3953	1254 ICAL 3			PP3949 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3954	1254 ICAL 4			PP3949 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3955	1254 ICAL 5			PP3949 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3956	1254 ICV			PP3950 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3957	1254 CCV			PP3949 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 9/30/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3958	1262 Intermed standard	Hexane JT Baker lot 38570	30-Aug-13 SRT 28-Feb-14	S2829 1000 ug/mL	0.100	10.0	10.0 ug/ml
				S2875A 200 ug/mL	0.025	10.0	0.5 ug/ml
PP 3959	1262 2nd Srce standard			S2830 1000 ug/mL	0.100	10.0	10.0 ug/ml
				S2875A 200 ug/mL	0.025	10.0	0.5 ug/ml

JJY 9/30/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

POLYCHLORINATED BIPHENYL QUALITY CONTROL SUMMARY DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1D-2

PCB ORGANICS ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	0.98 (g/L)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	08/19/2013 / 08:00
Analytical Method:	EPA 8082A	Analytical Prep Batch #	45505
Analytical Run #:	96884	Dilution Factor:	1.00
Date & Time Analyzed:	08/21/2013 / 11:48		
Cleanup Date/Time/Type:	, 08/20/2013 16:00 (Sulfur) , 08/20/2013 15:00 (Acid) ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	050713pcbic	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	0.31	U	0.12	0.31	1.0	1.0
11104-28-2	Aroclor-1221	0.31	U	0.087	0.31	1.0	1.0
11141-16-5	Aroclor-1232	0.31	U	0.15	0.31	1.0	1.0
53469-21-9	Aroclor-1242	0.31	U	0.098	0.31	1.0	1.0
12672-29-6	Aroclor-1248	0.31	U	0.090	0.31	1.0	1.0
11097-69-1	Aroclor-1254	0.31	U	0.096	0.31	1.0	1.0
11096-82-5	Aroclor-1260	0.31	U	0.10	0.31	1.0	1.0
37324-23-5	Aroclor-1262	0.31	U	0.29	0.31	1.0	1.0
11100-14-4	Aroclor-1268	0.31	U	0.057	0.31	1.0	1.0

CT LABORATORIES
delivering more than data from your environmental analyses

1D-4

Sample Description: **METHOD BLANK**

PCB ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	1.00 (g/L)	CTL Sample ID:	339720
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	08/19/2013 / 08:00
Analytical Method:	EPA 8082A	Analytical Prep Batch #	45505
Analytical Run #:	96884	Dilution Factor:	1.00
Cleanup Date/Time/Type:	, 08/20/2013 16:00 (Sulfur) , 08/20/201315:00 (Acid) ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	050713pcbic	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
12674-11-2	Aroclor-1016	08/21/2013	11:09	0.113	U	0.113	1.0	***0.50***
11104-28-2	Aroclor-1221	08/21/2013	11:09	0.085	U	0.085	1.0	***0.50***
11141-16-5	Aroclor-1232	08/21/2013	11:09	0.145	U	0.145	1.0	***0.50***
53469-21-9	Aroclor-1242	08/21/2013	11:09	0.096	U	0.096	1.0	***0.50***
12672-29-6	Aroclor-1248	08/21/2013	11:09	0.088	U	0.088	1.0	***0.50***
11097-69-1	Aroclor-1254	08/21/2013	11:09	0.094	U	0.094	1.0	***0.50***
11096-82-5	Aroclor-1260	08/21/2013	11:09	0.099	U	0.099	1.0	***0.50***
37324-23-5	Aroclor-1262	08/21/2013	11:09	0.28	U	0.28	1.0	***0.50***
11100-14-4	Aroclor-1268	08/21/2013	11:09	0.056	U	0.056	1.0	***0.50***

CT LABORATORIES
delivering more than data from your environmental analyses

2E-1

WATER PCB SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8082A	SDG:	99335
Analytical Run #:	96884	ICAL Calibration #:	050713pcbic

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	339561				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	88	40	135	

CTLab #	339720	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP		87.9	40	135	

CTLab #	339721	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	93.9	40	135	

CT LABORATORIES
delivering more than data from your environmental analyses

3E

Sample Description

LCS

WATER PCB LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 339721 SDG No.: 99335

Analytical Method: EPA 8082A Concentration Units: ug/L

Sample No.: 339721 Parent Sample No.: 0

Analytical Prep Batch #: 45505 Analytical Preparation Date/Time: 08/19/2013 08:00

Analytical Run #: 96884 ICAL Calibration #: 050713pcbic

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	08/21/2013	11:29	25-145	4.65		5.00	93
Aroclor-1260	08/21/2013	11:29	30-145	4.87		5.00	97

Spike Recovery: 0 out of 2 outside limits

CT Laboratories

4C-2

PCB METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	339720	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/19/2013
Date Analyzed:	08/21/2013	Time Analyzed:	11:09
Analytical Method:	EPA 8082A	Extraction Method:	SW3510
Analytical Run #:	96884	Extraction Batch #:	45505
		ICAL Calibration #:	050713pcbic

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	083SB-0023-0001-ER	339561	08/21/2013 11:48
2	MBW	339720	08/21/2013 11:09
3	LCSW	339721	08/21/2013 11:29

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\082113pcb.seq
User : JJY
Printed : Aug 21,2013 11:08:07

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\082113pcb\004.dat	PCB MRL PP 3785	Aug 21,2013 11:08:07

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	5.722	4.634	30.000	Passed
Aroclor 1016 #1	0.006	0.006	6.094	30.000	Passed
Aroclor 1016 #2	0.006	0.006	2.912	30.000	Passed
Aroclor 1016 #3	0.006	0.006	4.649	30.000	Passed
Aroclor 1016 #4	0.006	0.006	0.342	30.000	Passed
Aroclor 1016 #5	0.006	0.006	2.515	30.000	Passed
Aroclor 1260 #1	0.006	0.005	9.530	30.000	Passed
Aroclor 1260 #2	0.006	0.005	9.602	30.000	Passed
Aroclor 1260 #3	0.006	0.006	7.341	30.000	Passed
Aroclor 1260 #4	0.006	0.005	12.402	30.000	Passed
Aroclor 1260 #5	0.006	0.006	4.002	30.000	Passed
SURRDCBPCB	6.000	4.992	16.808	30.000	Passed
Aroclor 1016	0.030	0.029	3.165	30.000	Passed
Aroclor 1260	0.030	0.027	8.575	30.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	4.875	18.754	30.000	Passed
Aroclor 1016 #1	0.006	0.005	24.663	30.000	Passed
Aroclor 1016 #2	0.006	0.005	16.018	30.000	Passed
Aroclor 1016 #3	0.006	0.005	16.622	30.000	Passed
Aroclor 1016 #4	0.006	0.005	23.731	30.000	Passed
Aroclor 1016 #5	0.006	0.005	24.321	30.000	Passed
Aroclor 1260 #1	0.006	0.004	29.358	30.000	Passed
Aroclor 1260 #2	0.006	0.005	23.680	30.000	Passed
Aroclor 1260 #3	0.006	0.005	22.887	30.000	Passed
Aroclor 1260 #4	0.006	0.005	22.647	30.000	Passed
Aroclor 1260 #5	0.006	0.005	23.777	30.000	Passed
SURRDCBPCB	6.000	5.097	15.044	30.000	Passed
Aroclor 1016	0.030	0.024	21.071	30.000	Passed
Aroclor 1260	0.030	0.023	24.470	30.000	Passed

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\082113pcb.seq
User : JJY
Printed : Aug 21,2013 14:24:47

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\082113pcb\014.dat	PCB MRL PP 3785	Aug 21,2013 14:24:47

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	6.747	12.455	30.000	Passed
Aroclor 1016 #1	0.006	0.007	18.771	30.000	Passed
Aroclor 1016 #2	0.006	0.007	20.626	30.000	Passed
Aroclor 1016 #3	0.006	0.007	20.987	30.000	Passed
Aroclor 1016 #4	0.006	0.007	24.487	30.000	Passed
Aroclor 1016 #5	0.006	0.007	23.700	30.000	Passed
Aroclor 1260 #1	0.006	0.006	8.167	30.000	Passed
Aroclor 1260 #2	0.006	0.007	12.439	30.000	Passed
Aroclor 1260 #3	0.006	0.007	18.153	30.000	Passed
Aroclor 1260 #4	0.006	0.007	18.227	30.000	Passed
Aroclor 1260 #5	0.006	0.007	24.866	30.000	Passed
SURRDCBPCB	6.000	6.892	14.871	30.000	Passed
Aroclor 1016	0.030	0.037	21.714	30.000	Passed
Aroclor 1260	0.030	0.035	16.370	30.000	Passed

back detector

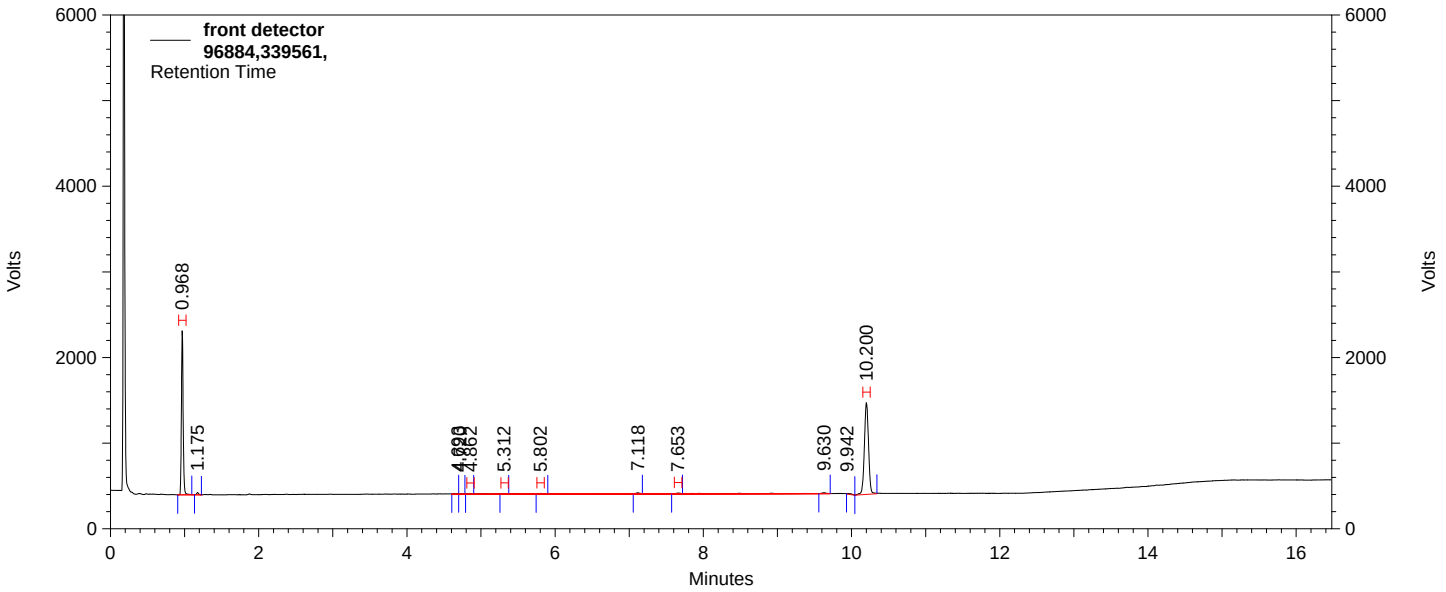
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	5.970	0.505	30.000	Passed
Aroclor 1016 #1	0.006	0.005	11.696	30.000	Passed
Aroclor 1016 #2	0.006	0.006	6.529	30.000	Passed
Aroclor 1016 #3	0.006	0.006	2.596	30.000	Passed
Aroclor 1016 #4	0.006	0.006	4.438	30.000	Passed
Aroclor 1016 #5	0.006	0.006	3.180	30.000	Passed
Aroclor 1260 #1	0.006	0.006	2.107	30.000	Passed
Aroclor 1260 #2	0.006	0.006	6.691	30.000	Passed
Aroclor 1260 #3	0.006	0.007	10.217	30.000	Passed
Aroclor 1260 #4	0.006	0.007	8.656	30.000	Passed
Aroclor 1260 #5	0.006	0.007	12.103	30.000	Passed
SURRDCBPCB	6.000	6.530	8.830	30.000	Passed
Aroclor 1016	0.030	0.029	2.038	30.000	Passed
Aroclor 1260	0.030	0.032	7.112	30.000	Passed

POLYCHLORINATED BIPHENYL
SAMPLE DATA
DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\082113pcb\007.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: 96884,339561,
Acquired: Aug 21,2013 11:48:53
Printed: Aug 21,2013 13:51:10

Data Summary: {Data Description}



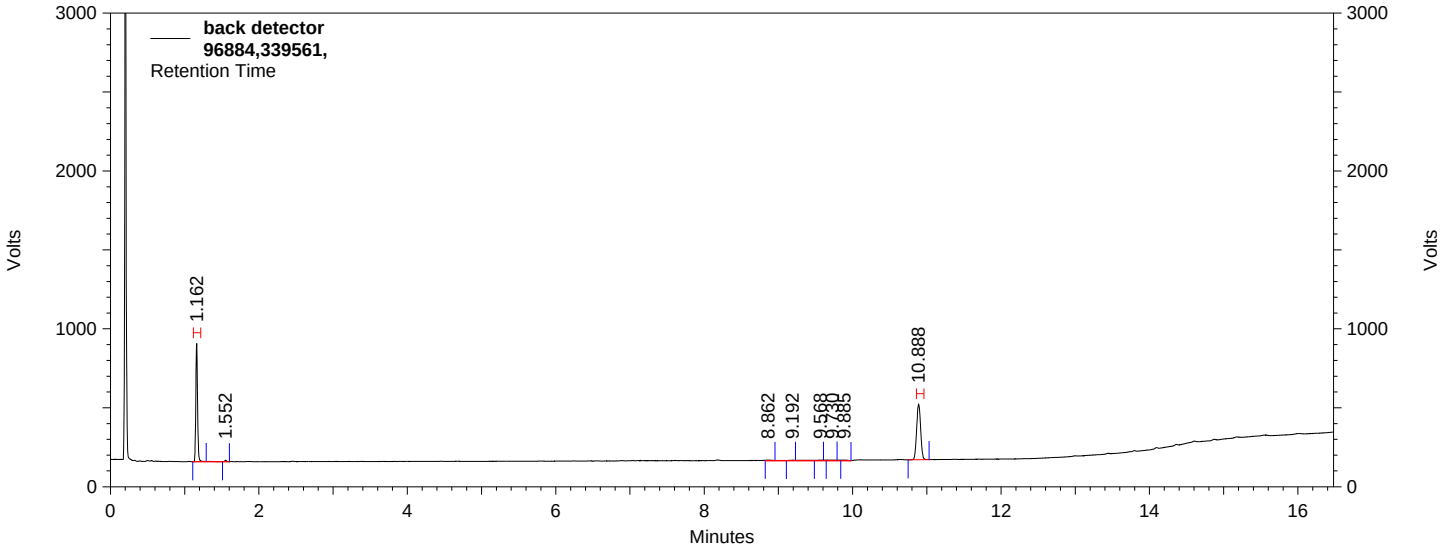
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.968	23819721	79.455
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	4.862	338855	0.000
Aroclor 1260 #2	5.312	366777	0.000
Aroclor 1260 #3	5.802	436585	0.000
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5	7.653	357660	0.000
SURRDCBPCB	10.200	32178564	87.633
Aroclor 1016		0	0.000
Aroclor 1260		1499877	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\082113pcb\007.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: 96884,339561,
Acquired: Aug 21,2013 11:48:53
Printed: Aug 21,2013 13:51:10

Data Summary: {Data Description}



back detector Results

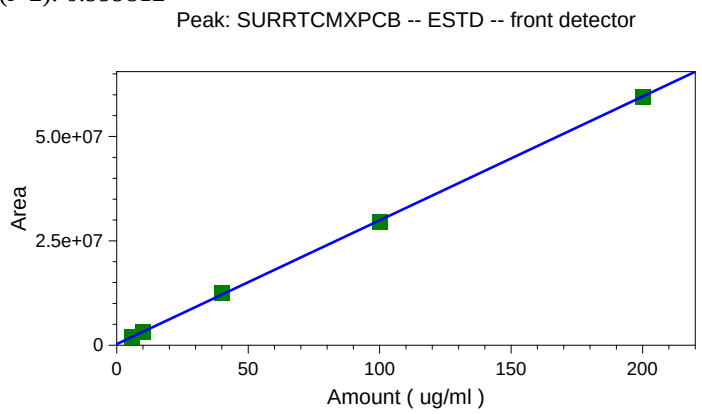
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.162	9473377	73.450
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	10.888	10087081	78.709
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

POLYCHLORINATED BIPHENYL
INITIAL CALIBRATION
DOCUMENTS

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:36
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMXPCB (front detector)
Average RF: 312034. RF StDev: 15105.2 RF %RSD: 4.84086
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 296627.x + 251325.
Goodness of fit (r^2): 0.999812



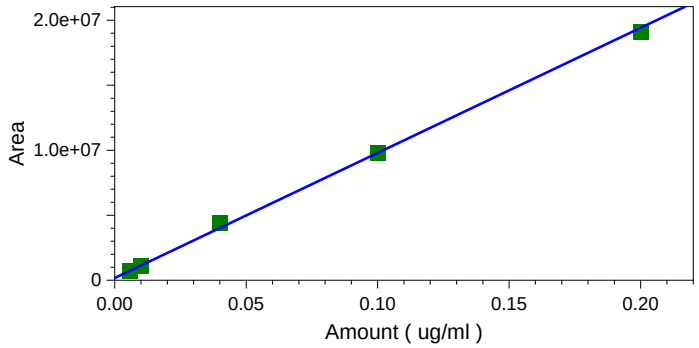
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1966910	3246066	12600995	29474906	59594453
RF	327818.3333 33333	324606.6	315024.875	294749.06	297972.265
Last Area					
Residual	0.216354	-0.0959857	-1.63368	1.48034	-0.0598291
Rep StDev					
Rep %RSD					
Rep 1 Area	1966910	3246066	12600995	29474906	59594453
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:40
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #1 (front detector)
Average RF: 1.06347e+008 RF StDev: 9.11947e+006 RF %RSD: 8.57523
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 9.62698e+007x + 165088.
Goodness of fit (r^2): 0.999063

Peak: Aroclor 1016 #1 -- ESTD -- front detector



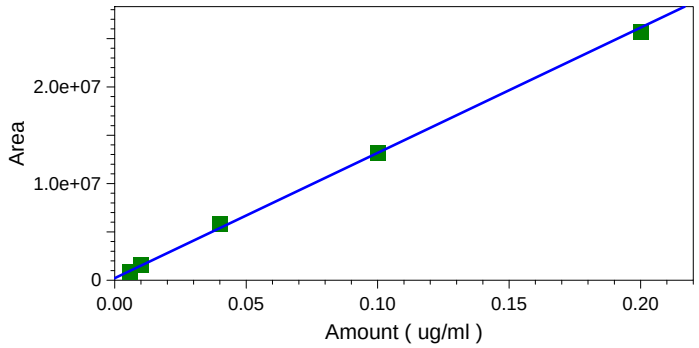
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	701130	1115421	4387618	9797451	19134226
RF	116855000	111542100	109690450	97974510	95671130
Last Area					
Residual	0.000431885	0.00012845	-0.0038614	-5.58688e-005	0.00295867
Rep StDev					
Rep %RSD					
Rep 1 Area	701130	1115421	4387618	9797451	19134226
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:41
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #2 (front detector)
Average RF: 1.42409e+008 RF StDev: 1.18134e+007 RF %RSD: 8.29541
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.29666e+008x + 205891.
Goodness of fit (r^2): 0.999062

Peak: Aroclor 1016 #2 -- ESTD -- front detector



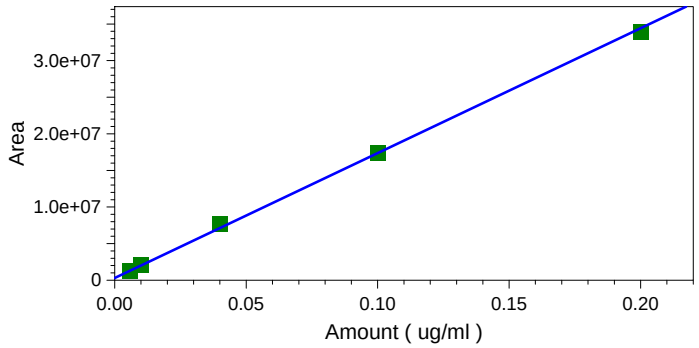
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	887288	1568846	5870004	13182783	25740050
RF	147881333.333333	156884600	146750100	131827830	128700250
Last Area Residual	0.000744989	-0.000511261	-0.00368227	-7.92218e-005	0.00307775
Rep StDev					
Rep %RSD					
Rep 1 Area	887288	1568846	5870004	13182783	25740050
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:42
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #3 (front detector)
Average RF: 1.89076e+008 RF StDev: 1.66261e+007 RF %RSD: 8.79336
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.70647e+008x + 301922.
Goodness of fit (r^2): 0.999273

Peak: Aroclor 1016 #3 -- ESTD -- front detector



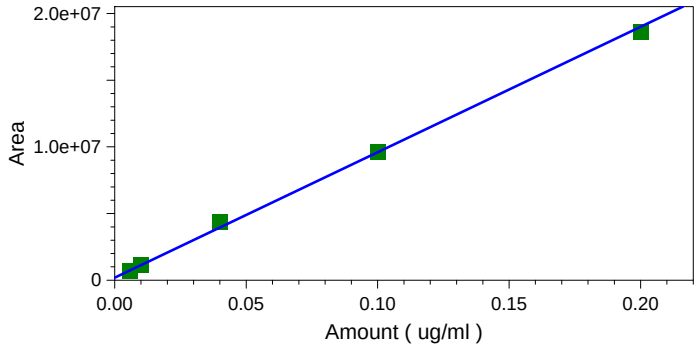
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1229111	2044791	7702385	17356987	33983737
RF	204851833.333333	204479100	192559625	173569870	169918685
Last Area Residual	0.000566632	-0.00021329	-0.00336705	5.65452e-005	0.00262303
Rep StDev					
Rep %RSD					
Rep 1 Area	1229111	2044791	7702385	17356987	33983737
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:44
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #4 (front detector)
Average RF: 1.05656e+008 RF StDev: 1.03571e+007 RF %RSD: 9.80272
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 9.40942e+007x + 188122.
Goodness of fit (r^2): 0.998650

Peak: Aroclor 1016 #4 -- ESTD -- front detector



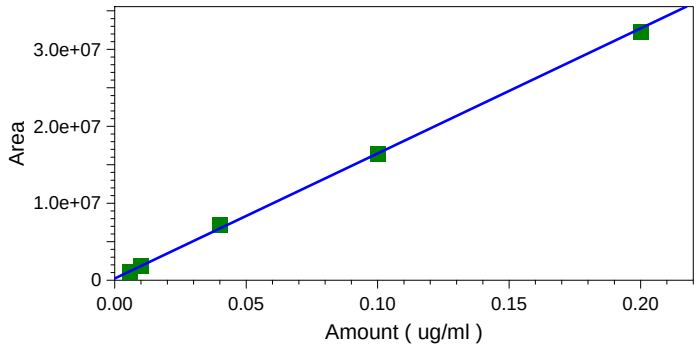
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	676102	1169435	4362613	9631531	18654008
RF	112683666.666667	116943500	109065325	96315310	93270040
Last Area Residual	0.000813922	-0.000429046	-0.00436501	-0.000361197	0.00375112
Rep StDev					
Rep %RSD					
Rep 1 Area	676102	1169435	4362613	9631531	18654008
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:45
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #5 (front detector)
Average RF: 1.76169e+008 RF StDev: 1.26375e+007 RF %RSD: 7.17350
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.62509e+008x + 221290.
Goodness of fit (r^2): 0.999354

Peak: Aroclor 1016 #5 -- ESTD -- front detector



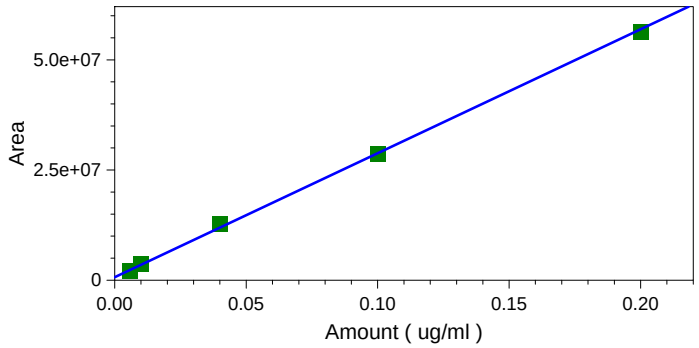
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1096552	1911570	7234148	16445759	32324087
RF	182758666.666667	191157000	180853700	164457590	161620435
Last Area Residual	0.000614061	-0.000401167	-0.00315375	0.000162439	0.00245486
Rep StDev					
Rep %RSD					
Rep 1 Area	1096552	1911570	7234148	16445759	32324087
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:46
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #1 (front detector)
Average RF: 3.23479e+008 RF StDev: 4.02903e+007 RF %RSD: 12.4553
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.81318e+008x + 694243.
Goodness of fit (r^2): 0.999505

Peak: Aroclor 1260 #1 -- ESTD -- front detector



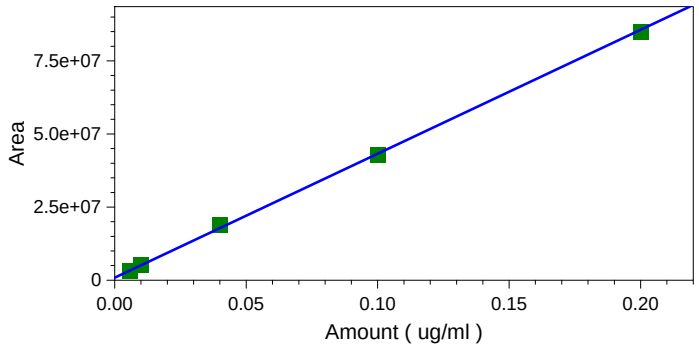
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2208079	3613313	12767127	28667592	56439463
RF	368013166.666667	361331300	319178175	286675920	282197315
Last Area Residual	0.000618772	-0.000376408	-0.00291543	0.000563246	0.00184269
Rep StDev					
Rep %RSD					
Rep 1 Area	2208079	3613313	12767127	28667592	56439463
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:47
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #2 (front detector)
Average RF: 4.77655e+008 RF StDev: 5.15894e+007 RF %RSD: 10.8006
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.23781e+008x + 885016.
Goodness of fit (r^2): 0.999624

Peak: Aroclor 1260 #2 -- ESTD -- front detector



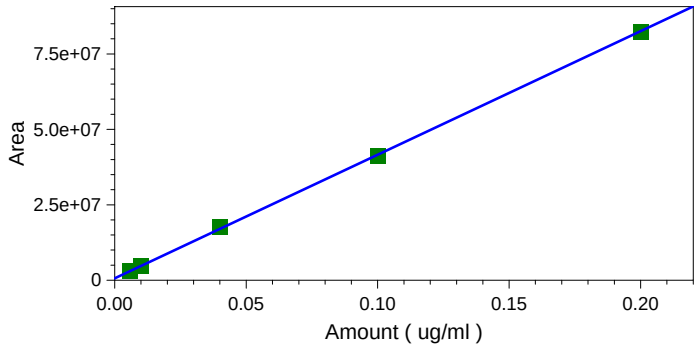
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	3196953	5275908	18934783	42922927	85052275
RF	532825500	527590800	473369575	429229270	425261375
Last Area					
Residual	0.000544505	-0.00036122	-0.00259217	0.00080283	0.0013899
Rep StDev					
Rep %RSD					
Rep 1 Area	3196953	5275908	18934783	42922927	85052275
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:49
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #3 (front detector)
Average RF: 4.48711e+008 RF StDev: 3.86628e+007 RF %RSD: 8.61642
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.09556e+008x + 641663.
Goodness of fit (r^2): 0.999797

Peak: Aroclor 1260 #3 -- ESTD -- front detector



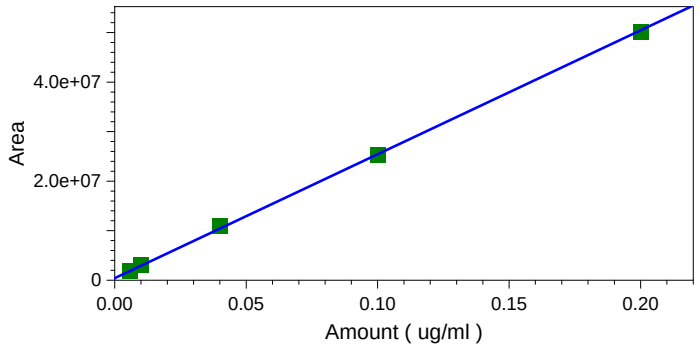
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2954197	4842547	17767455	41055370	82438340
RF	492366166.666667	484254700	444186375	410553700	412191700
Last Area Residual	0.000353552	-0.000257178	-0.00181555	0.00132302	0.000279411
Rep StDev					
Rep %RSD					
Rep 1 Area	2954197	4842547	17767455	41055370	82438340
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:50
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #4 (front detector)
Average RF: 2.75902e+008 RF StDev: 2.45832e+007 RF %RSD: 8.91012
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.50260e+008x + 420399.
Goodness of fit (r^2): 0.999723

Peak: Aroclor 1260 #4 -- ESTD -- front detector

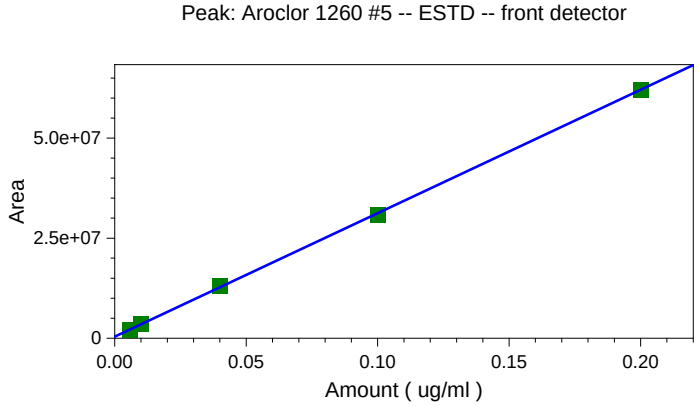


	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1810600	2997060	10992520	25209443	50225672
RF	301766666.666667	299706000	274813000	252094430	251128360
Last Area Residual	0.000444968	-0.000295946	-0.00224459	0.000946748	0.000985699
Rep StDev					
Rep %RSD					
Rep 1 Area	1810600	2997060	10992520	25209443	50225672
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:52
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #5 (front detector)
Average RF: 3.32094e+008 RF StDev: 2.38433e+007 RF %RSD: 7.17967
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.08436e+008x + 386350.
Goodness of fit (r^2): 0.999827



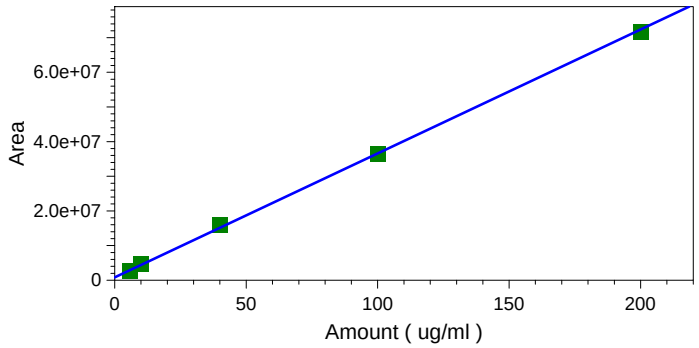
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2138326	3569046	13155358	30758077	62143010
RF	356387666.666667	356904600	328883950	307580770	310715050
Last Area Residual	0.000319812	-0.000318811	-0.00139917	0.00152999	-0.000224986
Rep StDev					
Rep %RSD					
Rep 1 Area	2138326	3569046	13155358	30758077	62143010
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:53
User: JJY
Instrument: Semi 7 (Offline)

SURRDCBPCB (front detector)
Average RF: 408350. RF StDev: 48946.8 RF %RSD: 11.9865
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 357670.x + 834769.
Goodness of fit (r^2): 0.999623

Peak: SURRDCBPCB -- ESTD -- front detector



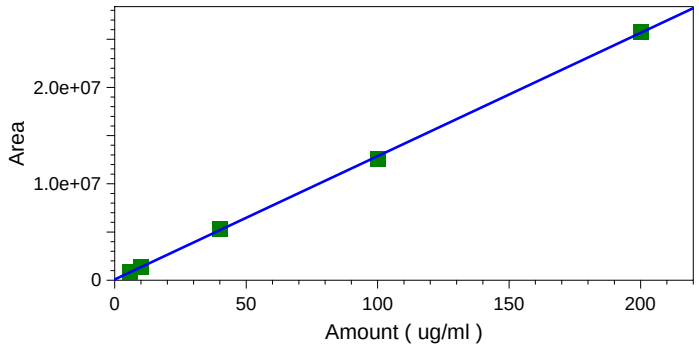
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	2792128	4518704	16055998	36415012	71795453
RF	465354.666666667	451870.4	401399.95	364150.12	358977.265
Last Area Residual	0.527474	-0.299813	-2.55662	0.522166	1.60295
Rep StDev					
Rep %RSD					
Rep 1 Area	2792128	4518704	16055998	36415012	71795453
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:23:59
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMXPCB (back detector)
Average RF: 132633. RF StDev: 5073.91 RF %RSD: 3.82552
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 127940.x + 76236.6
Goodness of fit (r^2): 0.999720

Peak: SURRTCMXPCB -- ESTD -- back detector



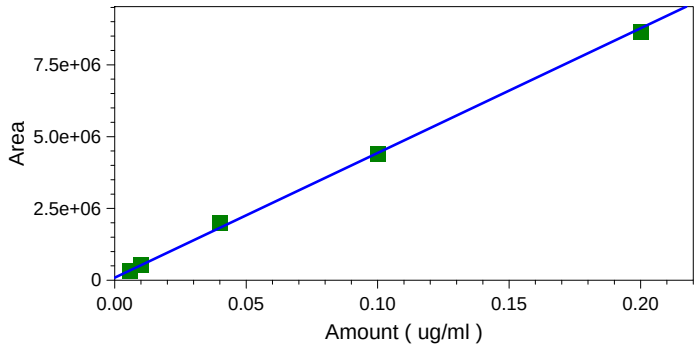
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	826718	1368163	5344083	12591736	25808759
RF	137786.3333 33333	136816.3	133602.075	125917.36	129043.795
Last Area Residual	0.134111	-0.0979143	-1.17438	2.17675	-1.12974
Rep StDev					
Rep %RSD					
Rep 1 Area	826718	1368163	5344083	12591736	25808759
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:01
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #1 (back detector)
Average RF: 4.87278e+007 RF StDev: 4.81539e+006 RF %RSD: 9.88224
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.34341e+007x + 86864.6
Goodness of fit (r^2): 0.999085

Peak: Aroclor 1016 #1 -- ESTD -- back detector



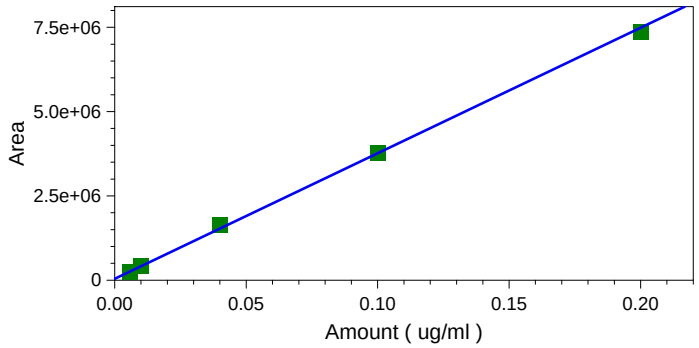
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	323861	523065	1998260	4409649	8660500
RF	53976833.33 33333	52306500	49956500	44096490	43302500
Last Area Residual	0.000543546	-4.2801e-005	-0.00400676	0.000474951	0.00260605
Rep StDev					
Rep %RSD					
Rep 1 Area	323861	523065	1998260	4409649	8660500
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:02
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #2 (back detector)
Average RF: 3.98038e+007 RF StDev: 2.26147e+006 RF %RSD: 5.68155
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.72448e+007x + 41669.4
Goodness of fit (r^2): 0.999221

Peak: Aroclor 1016 #2 -- ESTD -- back detector

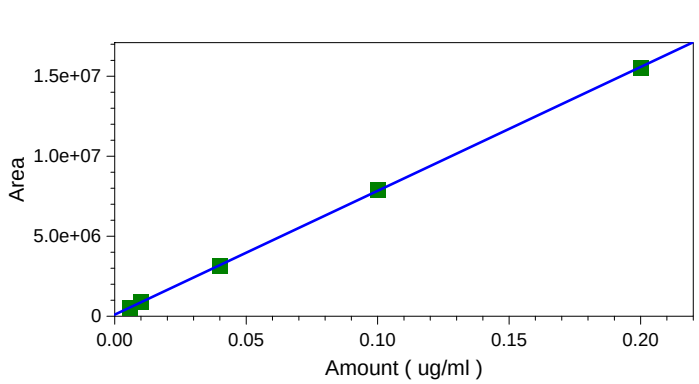


	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	251479	410580	1651562	3786557	7378630
RF	41913166.6666667	41058000	41289050	37865570	36893150
Last Area Residual	0.000366741	9.49753e-005	-0.00322464	-0.000547961	0.00300706
Rep StDev					
Rep %RSD					
Rep 1 Area	251479	410580	1651562	3786557	7378630
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:04
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #3 (back detector)
Average RF: 8.32771e+007 RF StDev: 6.66684e+006 RF %RSD: 8.00561
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 7.74551e+007x + 94552.6
Goodness of fit (r^2): 0.999927



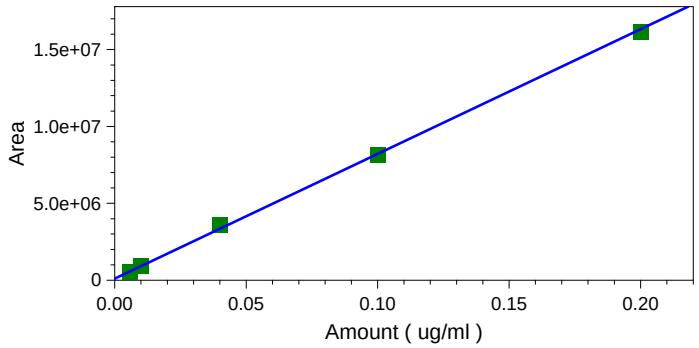
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	546415	900280	3134361	7916877	15552145
RF	91069166.6666667	90028000	78359025	79168770	77760725
Last Area					
Residual	0.00016614	-0.000402505	0.000753945	-0.000991685	0.000431659
Rep StDev					
Rep %RSD					
Rep 1 Area	546415	900280	3134361	7916877	15552145
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:05
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #4 (back detector)
Average RF: 8.75637e+007 RF StDev: 5.89876e+006 RF %RSD: 6.73653
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 8.11146e+007x + 104889.
Goodness of fit (r^2): 0.999445

Peak: Aroclor 1016 #4 -- ESTD -- back detector



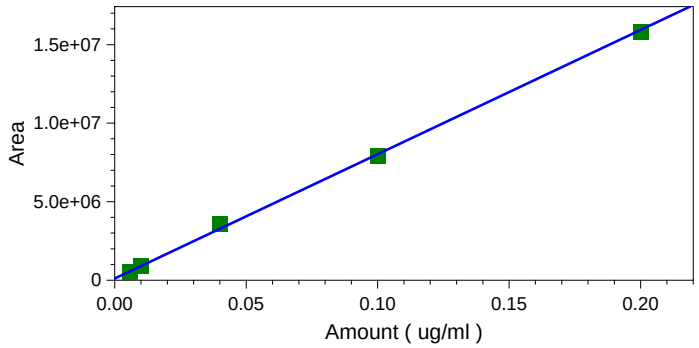
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	551445	933074	3606226	8155783	16178062
RF	91907500	93307400	90155650	81557830	80890310
Last Area					
Residual	0.000494755	-0.000210058	-0.00316531	0.00074667	0.00184611
Rep StDev					
Rep %RSD					
Rep 1 Area	551445	933074	3606226	8155783	16178062
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:06
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1016 #5 (back detector)
Average RF: 8.57893e+007 RF StDev: 6.19431e+006 RF %RSD: 7.22037
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 7.91683e+007x + 107506.
Goodness of fit (r^2): 0.999256

Peak: Aroclor 1016 #5 -- ESTD -- back detector



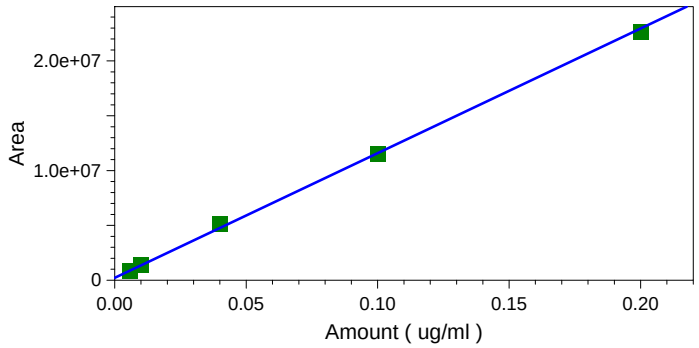
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	546674	904012	3574158	7888638	15838520
RF	91112333.3333	90401200	89353950	78886380	79192600
Last Area Residual	0.000452733	-6.09144e-005	-0.00378836	0.0017141	0.00129666
Rep StDev					
Rep %RSD					
Rep 1 Area	546674	904012	3574158	7888638	15838520
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:08
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #1 (back detector)
Average RF: 1.27152e+008 RF StDev: 1.23774e+007 RF %RSD: 9.73431
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.13700e+008x + 221060.
Goodness of fit (r^2): 0.999262

Peak: Aroclor 1260 #1 -- ESTD -- back detector



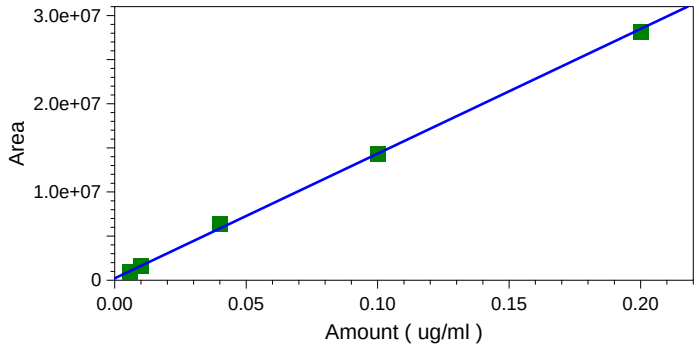
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	849656	1358346	5174558	11552039	22686599
RF	141609333.333333	135834600	129363950	115520390	113432995
Last Area Residual	0.000471462	-2.49484e-006	-0.00356629	0.000343409	0.00241433
Rep StDev					
Rep %RSD					
Rep 1 Area	849656	1358346	5174558	11552039	22686599
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:09
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #2 (back detector)
Average RF: 1.54368e+008 RF StDev: 1.18096e+007 RF %RSD: 7.65029
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.41365e+008x + 212123.
Goodness of fit (r^2): 0.999359

Peak: Aroclor 1260 #2 -- ESTD -- back detector



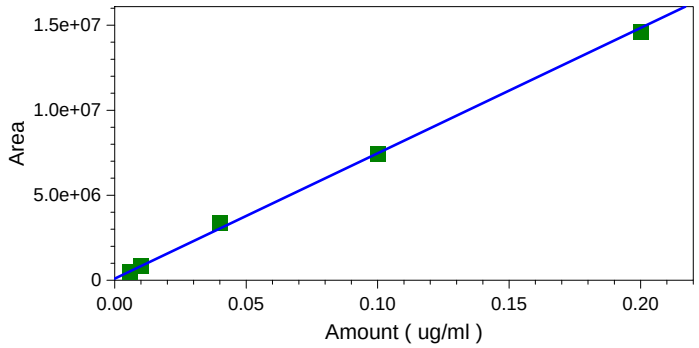
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	986584	1652760	6345034	14253545	28194166
RF	164430666.666667	165276000	158625850	142535450	140970830
Last Area Residual	0.000521539	-0.000190924	-0.00338361	0.000672353	0.00205776
Rep StDev					
Rep %RSD					
Rep 1 Area	986584	1652760	6345034	14253545	28194166
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:10
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #3 (back detector)
Average RF: 7.93678e+007 RF StDev: 5.11631e+006 RF %RSD: 6.44633
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 7.37732e+007x + 90318.7
Goodness of fit (r^2): 0.999010

Peak: Aroclor 1260 #3 -- ESTD -- back detector



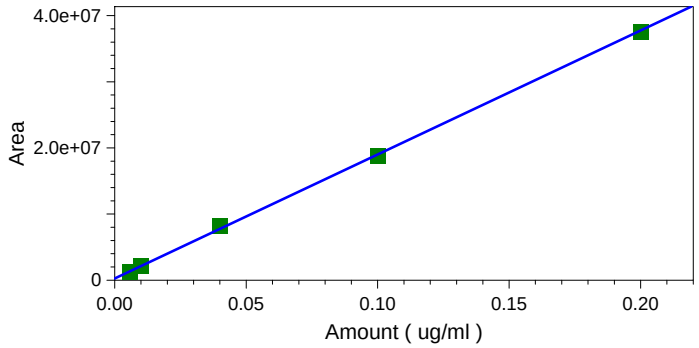
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	493791	833737	3341883	7445208	14633563
RF	82298500	83373700	83547075	74452080	73167815
Last Area					
Residual	0.000530913	-7.70721e-005	-0.00407511	0.000304115	0.00286561
Rep StDev					
Rep %RSD					
Rep 1 Area	493791	833737	3341883	7445208	14633563
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:12
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #4 (back detector)
Average RF: 2.02774e+008 RF StDev: 1.43527e+007 RF %RSD: 7.07820
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.87570e+008x + 248616.
Goodness of fit (r^2): 0.999645

Peak: Aroclor 1260 #4 -- ESTD -- back detector



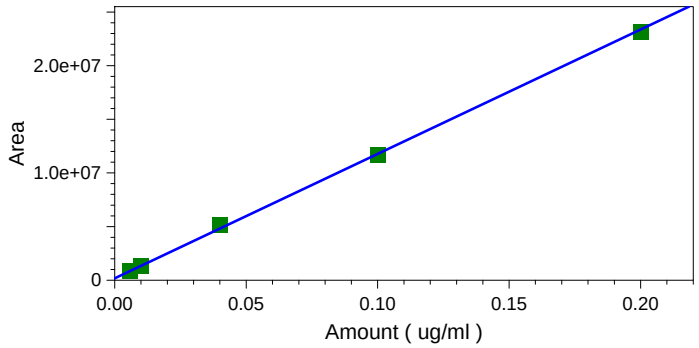
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1308767	2142116	8235979	18758721	37608368
RF	218127833.333333	214211600	205899475	187587210	188041840
Last Area Residual	0.000347984	-9.48746e-005	-0.00258327	0.00131651	0.000822817
Rep StDev					
Rep %RSD					
Rep 1 Area	1308767	2142116	8235979	18758721	37608368
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:13
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1260 #5 (back detector)
Average RF: 1.26740e+008 RF StDev: 9.90069e+006 RF %RSD: 7.81182
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.15980e+008x + 175806.
Goodness of fit (r^2): 0.999446

Peak: Aroclor 1260 #5 -- ESTD -- back detector



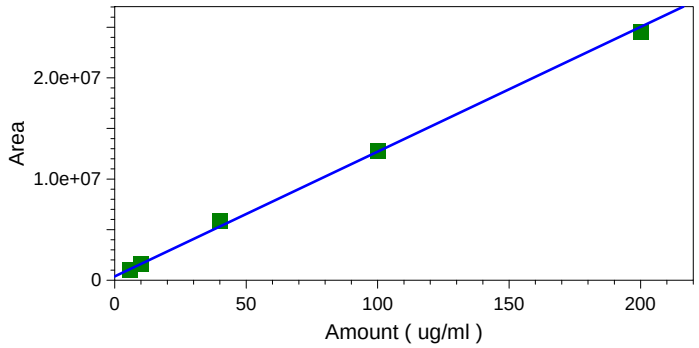
	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	817361	1352448	5189952	11653833	23188039
RF	136226833.333333	135244800	129748800	116538330	115940195
Last Area Residual	0.000468417	-0.000145184	-0.00323272	0.00103472	0.00158506
Rep StDev					
Rep %RSD					
Rep 1 Area	817361	1352448	5189952	11653833	23188039
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
Print Time: May 07,2013 10:24:15
User: JJY
Instrument: Semi 7 (Offline)

SURRDCBPCB (back detector)
Average RF: 146389. RF StDev: 21306.8 RF %RSD: 14.5549
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 123306.x + 381865.
Goodness of fit (r^2): 0.998617

Peak: SURRDCBPCB -- ESTD -- back detector

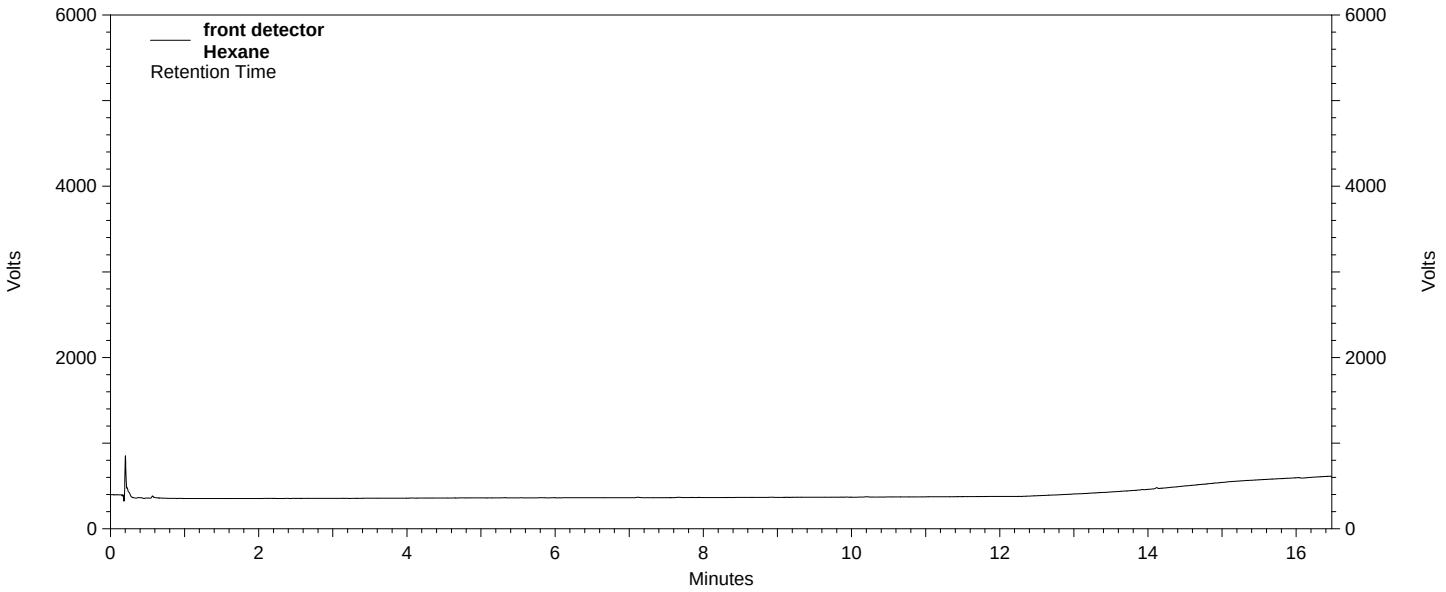


	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1029346	1630634	5872742	12757669	24585968
RF	171557.666666667	163063.4	146818.55	127576.69	122929.84
Last Area Residual	0.748975	-0.127429	-4.53063	-0.366916	3.70639
Rep StDev					
Rep %RSD					
Rep 1 Area	1029346	1630634	5872742	12757669	24585968
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\003.dat	C:\Instarch\Semi7\Data\050713pcbic\004.dat	C:\Instarch\Semi7\Data\050713pcbic\005.dat	C:\Instarch\Semi7\Data\050713pcbic\006.dat	C:\Instarch\Semi7\Data\050713pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3871	PCB ICAL 2 PP 3872	PCB ICAL 3 PP 3873	PCB ICAL 4 PP 3874	PCB ICAL 5 PP 3875
Rep 1 Calib. Time	May 07,2013 10:06:38	May 07,2013 10:06:46	May 07,2013 10:06:54	May 07,2013 10:07:02	May 07,2013 10:19:42

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\002.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: Hexane
Acquired: May 07,2013 08:23:32
Printed: May 07,2013 10:22:29

Data Summary: {Data Description}



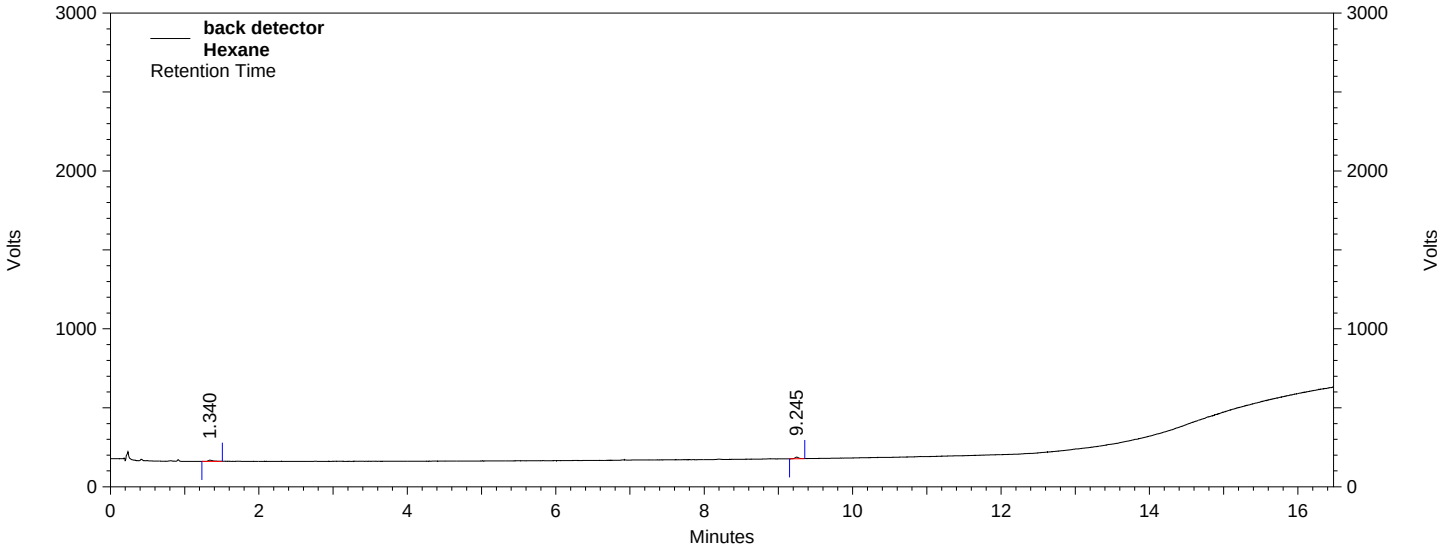
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB			0.000 BDL
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB			0.000 BDL
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\002.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: Hexane
Acquired: May 07,2013 08:23:32
Printed: May 07,2013 10:22:29

Data Summary: {Data Description}



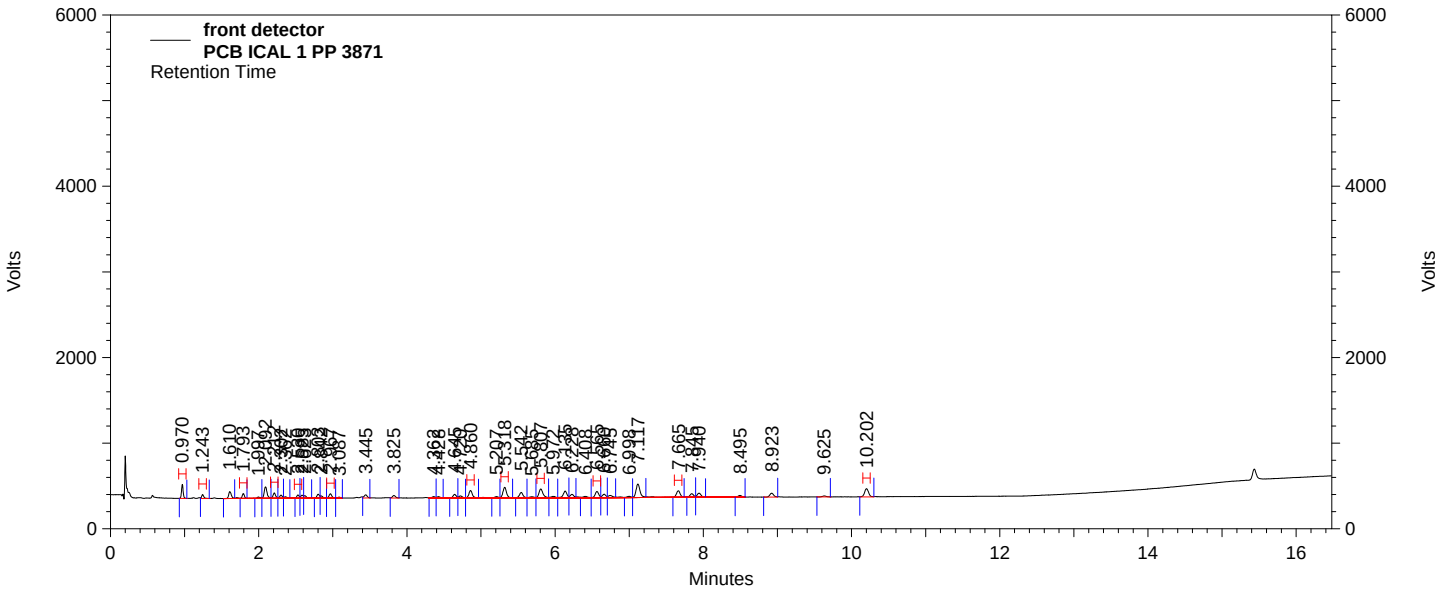
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB			0.000 BDL
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB			0.000 BDL
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\003.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 1 PP 3871
Acquired: May 07,2013 08:43:10
Printed: May 07,2013 10:22:31

Data Summary: {Data Description}



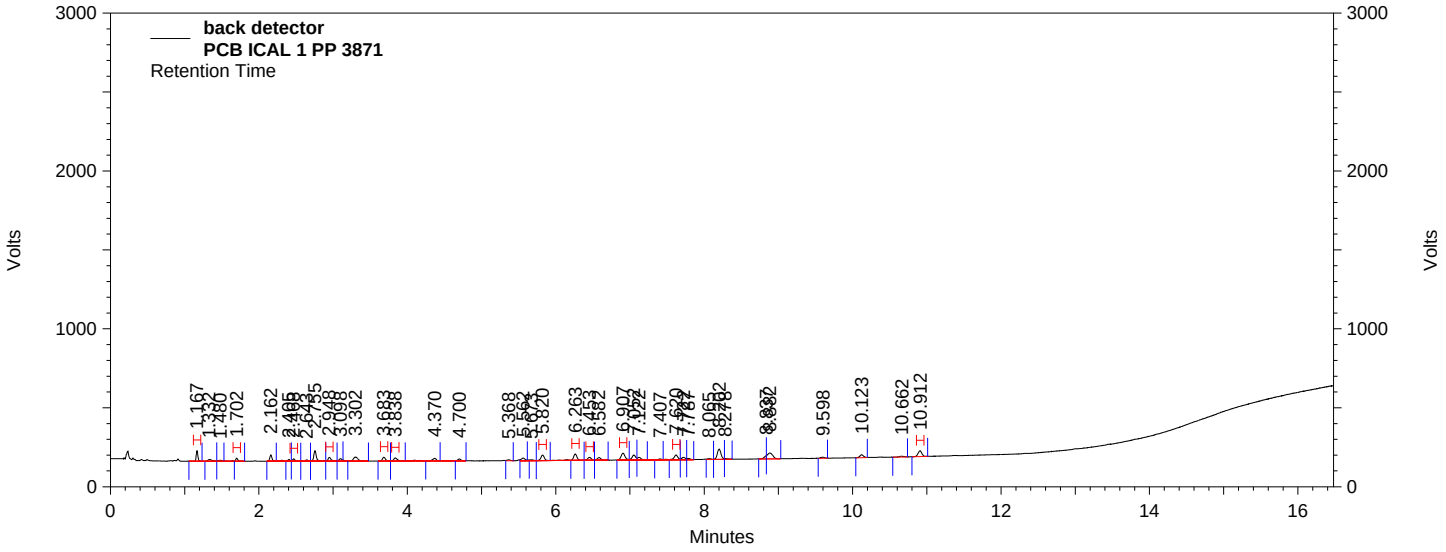
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.970	1966910	6.000 CAL
Aroclor 1016 #1	1.243	701130	0.006 CAL
Aroclor 1016 #2	1.793	887288	0.006 CAL
Aroclor 1016 #3	2.212	1229111	0.006 CAL
Aroclor 1016 #4	2.530	676102	0.006 CAL
Aroclor 1016 #5	2.967	1096552	0.006 CAL
Aroclor 1260 #1	4.860	2208079	0.006 CAL
Aroclor 1260 #2	5.318	3196953	0.006 CAL
Aroclor 1260 #3	5.807	2954197	0.006 CAL
Aroclor 1260 #4	6.565	1810600	0.006 CAL
Aroclor 1260 #5	7.665	2138326	0.006 CAL
SURRDCBPCB	10.202	2792128	6.000 CAL
Aroclor 1016		4590183	0.030 CAL
Aroclor 1260		12308155	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\003.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 1 PP 3871
Acquired: May 07,2013 08:43:10
Printed: May 07,2013 10:22:31

Data Summary: {Data Description}



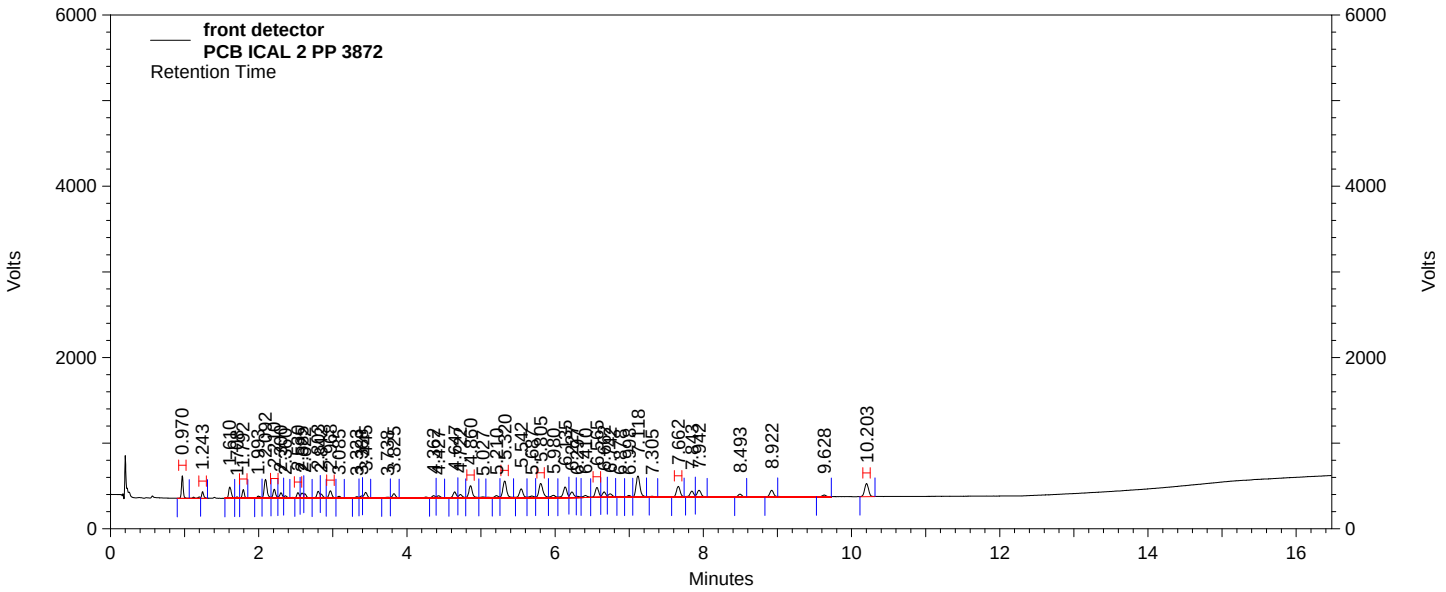
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.167	826718	6.000 CAL
Aroclor 1016 #1	1.702	323861	0.006 CAL
Aroclor 1016 #2	2.468	251479	0.006 CAL
Aroclor 1016 #3	2.948	546415	0.006 CAL
Aroclor 1016 #4	3.683	551445	0.006 CAL
Aroclor 1016 #5	3.838	546674	0.006 CAL
Aroclor 1260 #1	5.820	849656	0.006 CAL
Aroclor 1260 #2	6.263	986584	0.006 CAL
Aroclor 1260 #3	6.453	493791	0.006 CAL
Aroclor 1260 #4	6.907	1308767	0.006 CAL
Aroclor 1260 #5	7.620	817361	0.006 CAL
SURRDCBPCB	10.912	1029346	6.000 CAL
Aroclor 1016		2219874	0.030 CAL
Aroclor 1260		4456159	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\004.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 2 PP 3872
Acquired: May 07,2013 09:02:45
Printed: May 07,2013 10:22:33

Data Summary: {Data Description}



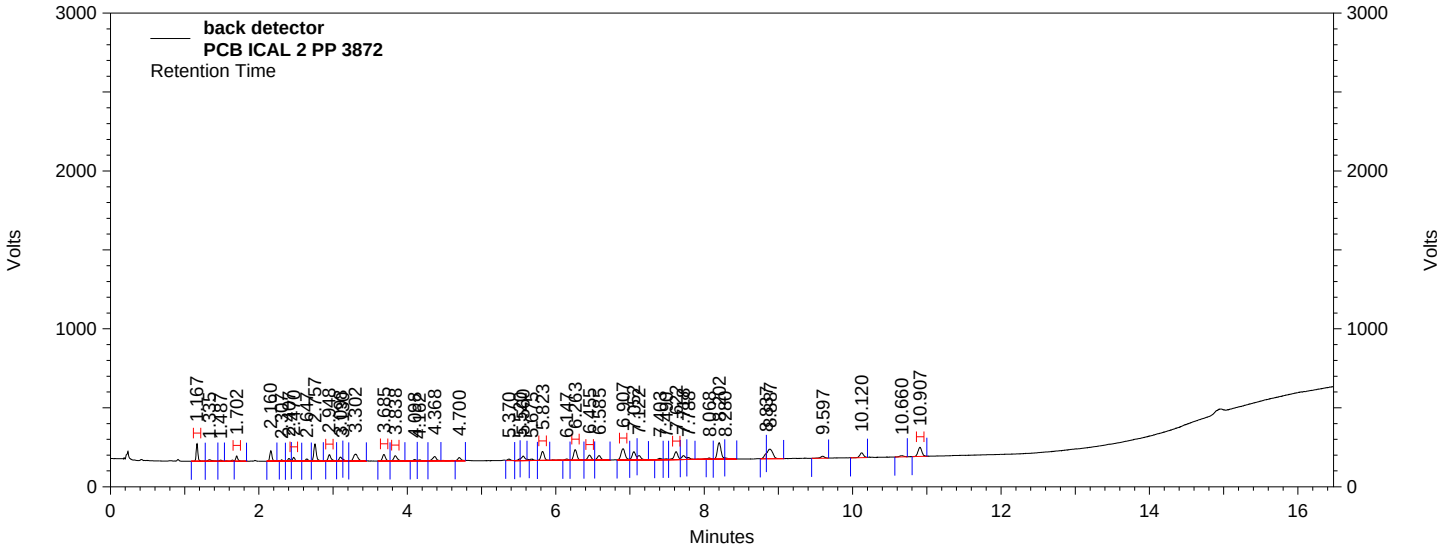
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.970	3246066	10.000 CAL
Aroclor 1016 #1	1.243	1115421	0.010 CAL
Aroclor 1016 #2	1.792	1568846	0.010 CAL
Aroclor 1016 #3	2.210	2044791	0.010 CAL
Aroclor 1016 #4	2.530	1169435	0.010 CAL
Aroclor 1016 #5	2.968	1911570	0.010 CAL
Aroclor 1260 #1	4.860	3613313	0.010 CAL
Aroclor 1260 #2	5.320	5275908	0.010 CAL
Aroclor 1260 #3	5.805	4842547	0.010 CAL
Aroclor 1260 #4	6.565	2997060	0.010 CAL
Aroclor 1260 #5	7.662	3569046	0.010 CAL
SURRDCBPCB	10.203	4518704	10.000 CAL
Aroclor 1016		7810063	0.050 CAL
Aroclor 1260		20297874	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\004.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 2 PP 3872
Acquired: May 07,2013 09:02:45
Printed: May 07,2013 10:22:33

Data Summary: {Data Description}



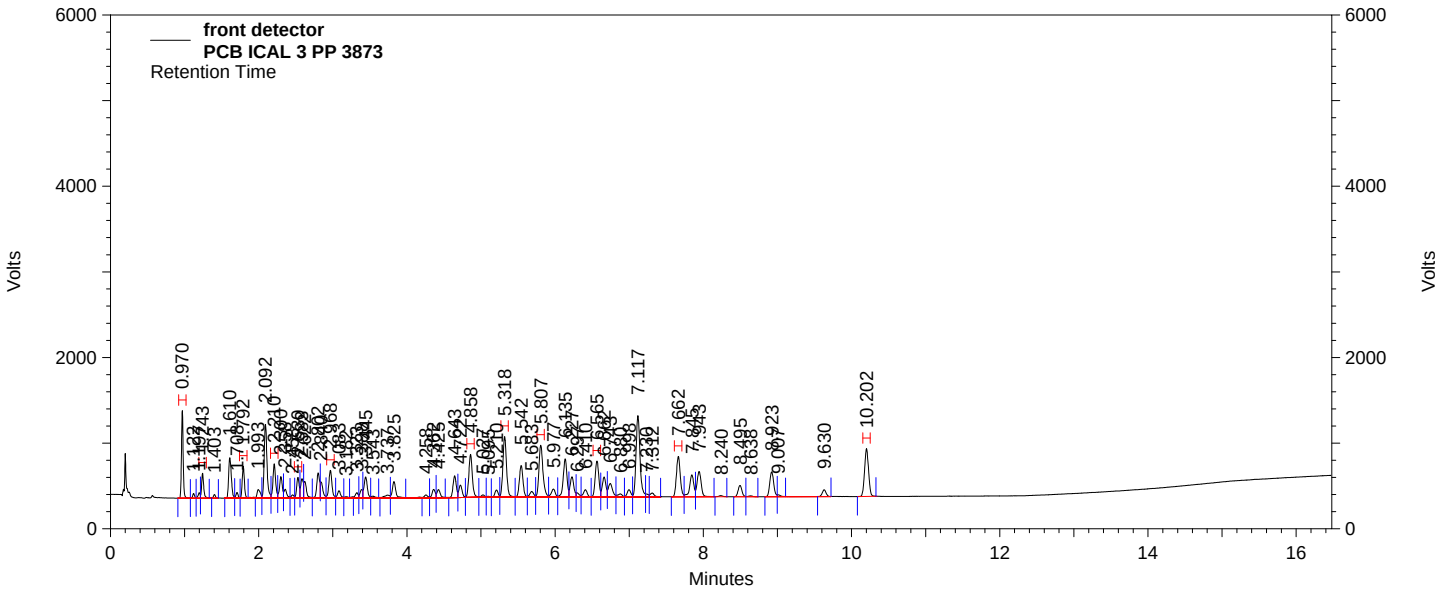
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.167	1368163	10.000 CAL
Aroclor 1016 #1	1.702	523065	0.010 CAL
Aroclor 1016 #2	2.470	410580	0.010 CAL
Aroclor 1016 #3	2.948	900280	0.010 CAL
Aroclor 1016 #4	3.685	933074	0.010 CAL
Aroclor 1016 #5	3.838	904012	0.010 CAL
Aroclor 1260 #1	5.823	1358346	0.010 CAL
Aroclor 1260 #2	6.263	1652760	0.010 CAL
Aroclor 1260 #3	6.455	833737	0.010 CAL
Aroclor 1260 #4	6.907	2142116	0.010 CAL
Aroclor 1260 #5	7.622	1352448	0.010 CAL
SURRDCBPCB	10.907	1630634	10.000 CAL
Aroclor 1016		3671011	0.050 CAL
Aroclor 1260		7339407	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\005.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 3 PP 3873
Acquired: May 07,2013 09:22:23
Printed: May 07,2013 10:22:35

Data Summary: {Data Description}



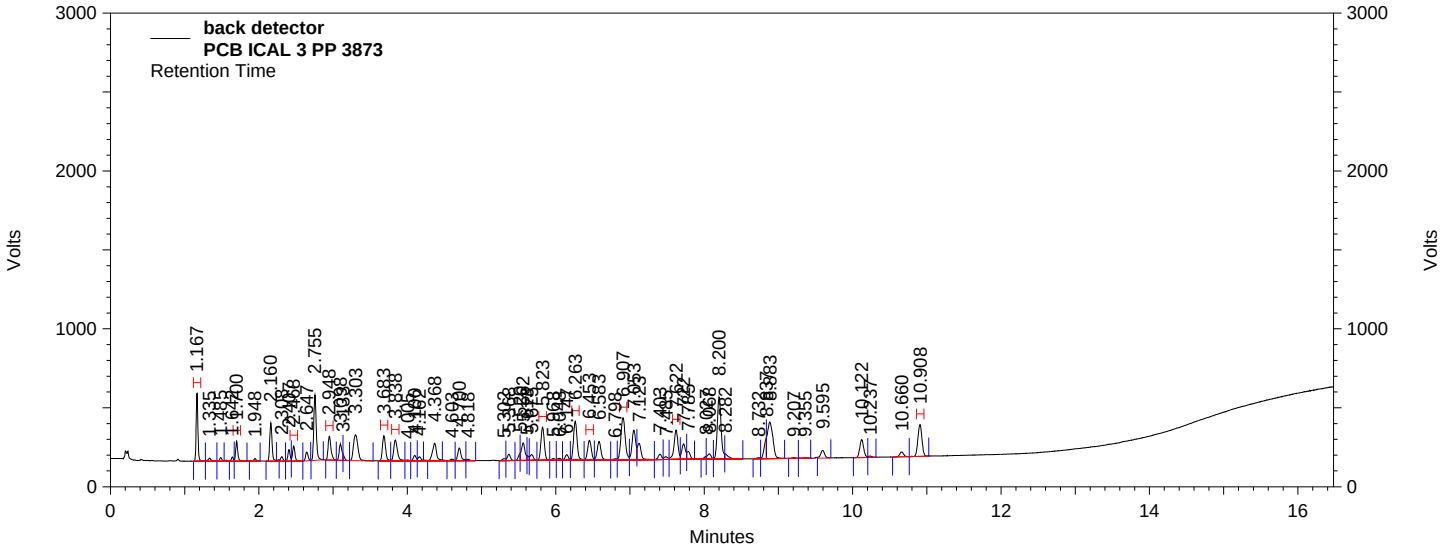
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.970	12600995	40.000 CAL
Aroclor 1016 #1	1.243	4387618	0.040 CAL
Aroclor 1016 #2	1.792	5870004	0.040 CAL
Aroclor 1016 #3	2.210	7702385	0.040 CAL
Aroclor 1016 #4	2.530	4362613	0.040 CAL
Aroclor 1016 #5	2.968	7234148	0.040 CAL
Aroclor 1260 #1	4.858	12767127	0.040 CAL
Aroclor 1260 #2	5.318	18934783	0.040 CAL
Aroclor 1260 #3	5.807	17767455	0.040 CAL
Aroclor 1260 #4	6.565	10992520	0.040 CAL
Aroclor 1260 #5	7.662	13155358	0.040 CAL
SURRDCBPCB	10.202	16055998	40.000 CAL
Aroclor 1016		29556768	0.200 CAL
Aroclor 1260		73617243	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\005.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 3 PP 3873
Acquired: May 07,2013 09:22:23
Printed: May 07,2013 10:22:35

Data Summary: {Data Description}



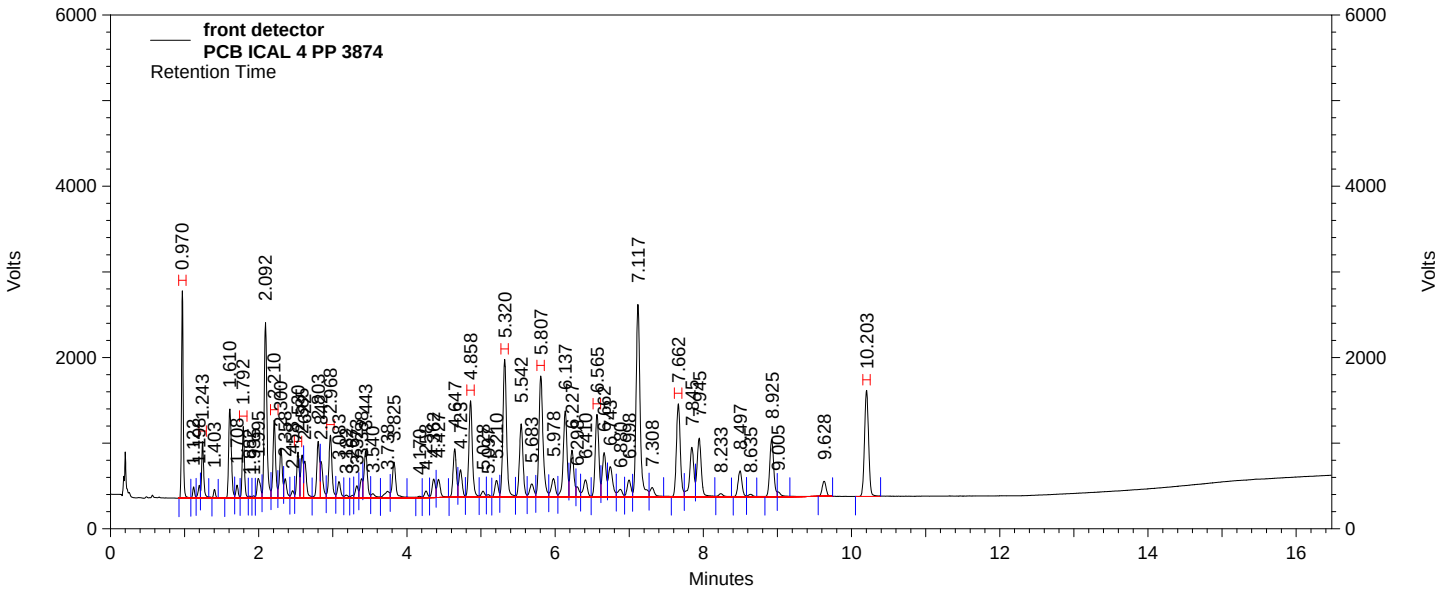
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.167	5344083	40.000 CAL
Aroclor 1016 #1	1.700	1998260	0.040 CAL
Aroclor 1016 #2	2.468	1651562	0.040 CAL
Aroclor 1016 #3	2.948	3134361	0.040 CAL
Aroclor 1016 #4	3.683	3606226	0.040 CAL
Aroclor 1016 #5	3.838	3574158	0.040 CAL
Aroclor 1260 #1	5.823	5174558	0.040 CAL
Aroclor 1260 #2	6.263	6345034	0.040 CAL
Aroclor 1260 #3	6.453	3341883	0.040 CAL
Aroclor 1260 #4	6.907	8235979	0.040 CAL
Aroclor 1260 #5	7.622	5189952	0.040 CAL
SURRDCBPCB	10.908	5872742	40.000 CAL
Aroclor 1016		13964567	0.200 CAL
Aroclor 1260		28287406	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\006.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 4 PP 3874
Acquired: May 07,2013 09:42:02
Printed: May 07,2013 10:22:37

Data Summary: {Data Description}



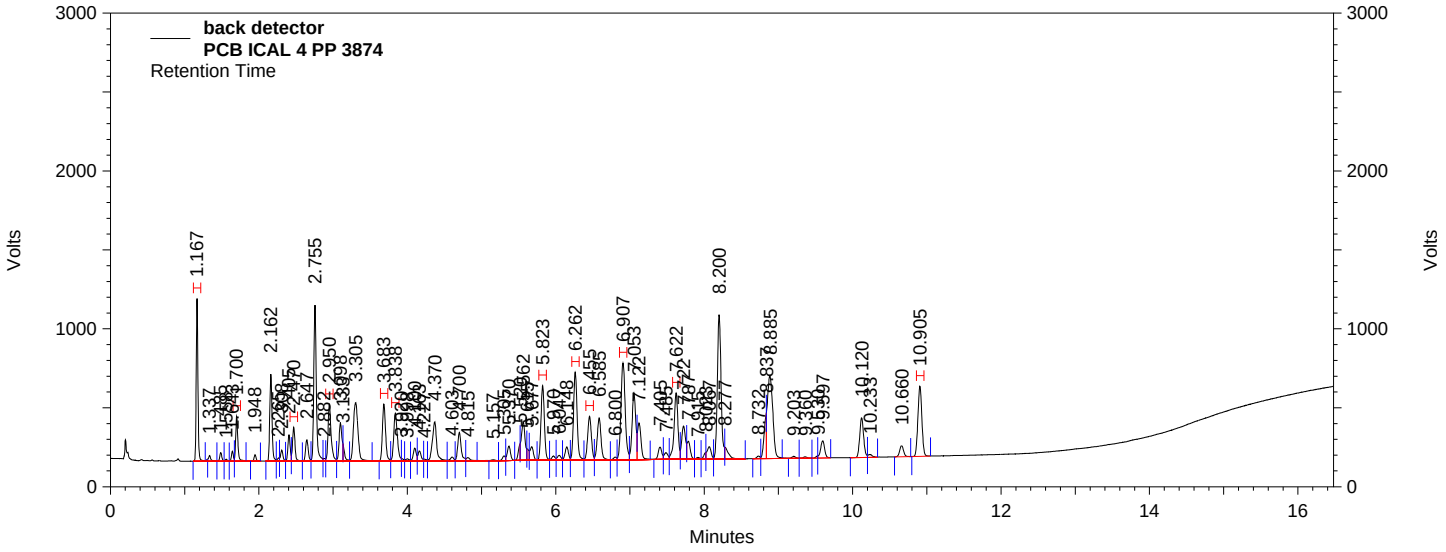
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.970	29474906	100.000 CAL
Aroclor 1016 #1	1.243	9797451	0.100 CAL
Aroclor 1016 #2	1.792	13182783	0.100 CAL
Aroclor 1016 #3	2.210	17356987	0.100 CAL
Aroclor 1016 #4	2.530	9631531	0.100 CAL
Aroclor 1016 #5	2.968	16445759	0.100 CAL
Aroclor 1260 #1	4.858	28667592	0.100 CAL
Aroclor 1260 #2	5.320	42922927	0.100 CAL
Aroclor 1260 #3	5.807	41055370	0.100 CAL
Aroclor 1260 #4	6.565	25209443	0.100 CAL
Aroclor 1260 #5	7.662	30758077	0.100 CAL
SURRDCBPCB	10.203	36415012	100.000 CAL
Aroclor 1016		66414511	0.500 CAL
Aroclor 1260		168613409	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\006.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 4 PP 3874
Acquired: May 07,2013 09:42:02
Printed: May 07,2013 10:22:37

Data Summary: {Data Description}



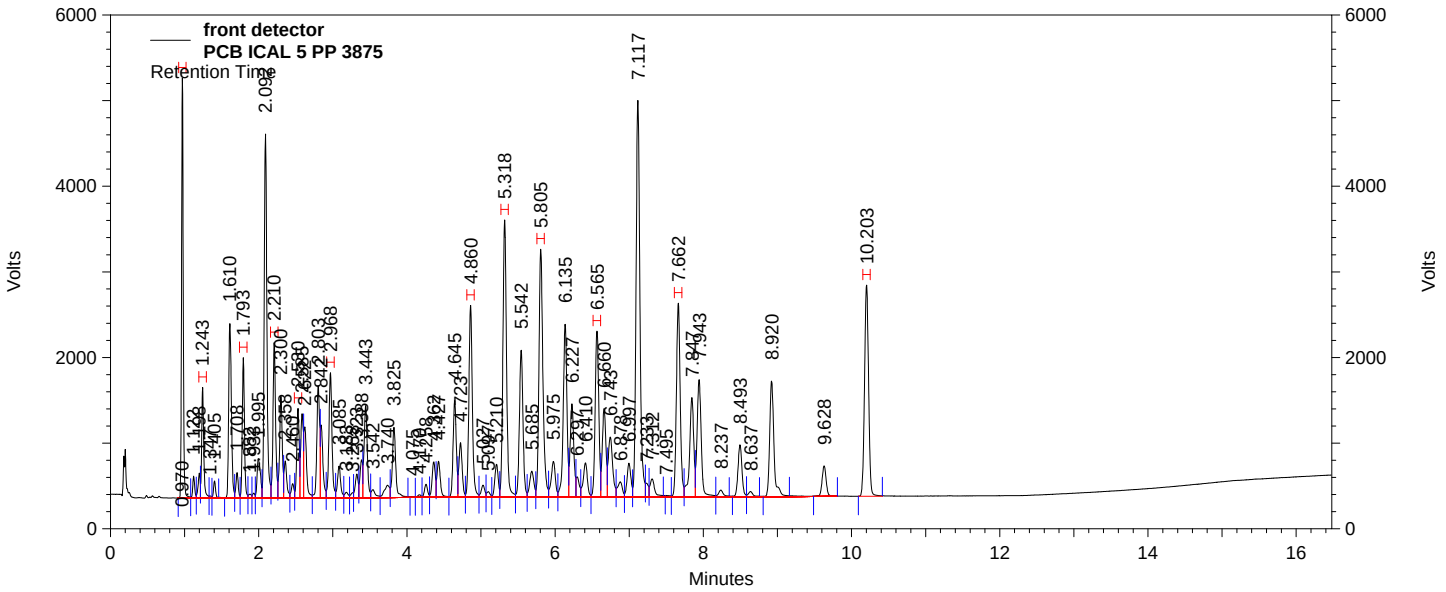
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.167	12591736	100.000 CAL
Aroclor 1016 #1	1.700	4409649	0.100 CAL
Aroclor 1016 #2	2.470	3786557	0.100 CAL
Aroclor 1016 #3	2.950	7916877	0.100 CAL
Aroclor 1016 #4	3.683	8155783	0.100 CAL
Aroclor 1016 #5	3.838	7888638	0.100 CAL
Aroclor 1260 #1	5.823	11552039	0.100 CAL
Aroclor 1260 #2	6.262	14253545	0.100 CAL
Aroclor 1260 #3	6.455	7445208	0.100 CAL
Aroclor 1260 #4	6.907	18758721	0.100 CAL
Aroclor 1260 #5	7.622	11653833	0.100 CAL
SURRDCBPCB	10.905	12757669	100.000 CAL
Aroclor 1016		32157504	0.500 CAL
Aroclor 1260		63663346	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\007.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 5 PP 3875
Acquired: May 07,2013 10:01:40
Printed: May 07,2013 10:22:38

Data Summary: {Data Description}



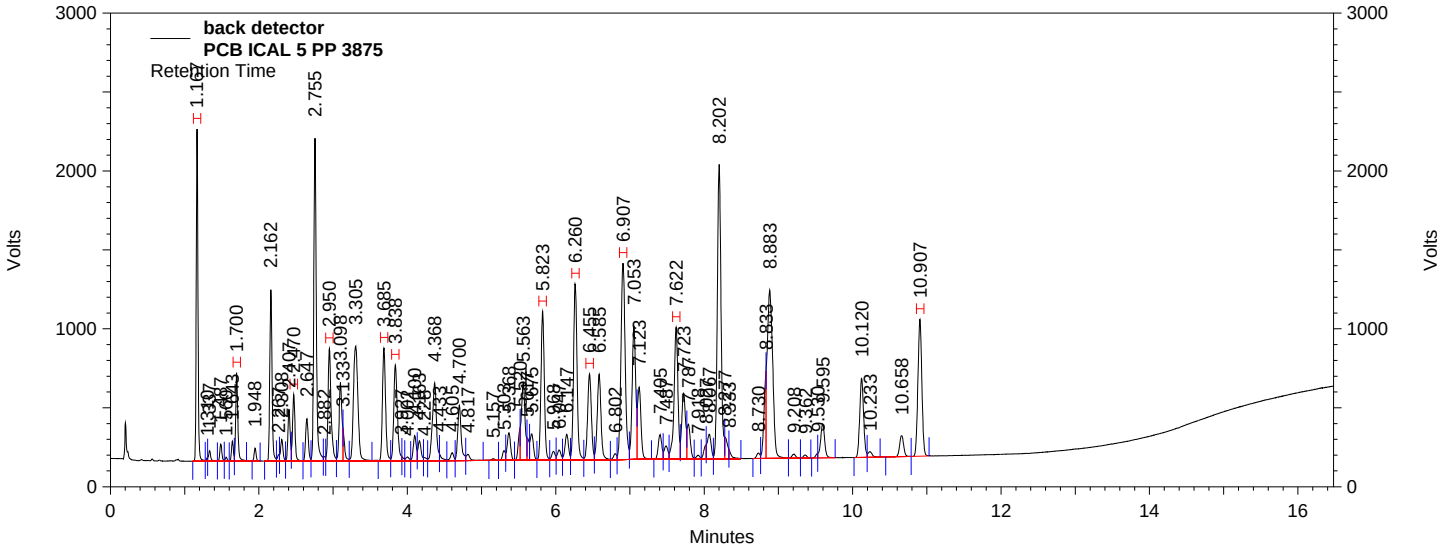
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.970	59594453	200.000 CAL
Aroclor 1016 #1	1.243	19134226	0.200 CAL
Aroclor 1016 #2	1.793	25740050	0.200 CAL
Aroclor 1016 #3	2.210	33983737	0.200 CAL
Aroclor 1016 #4	2.530	18654008	0.200 CAL
Aroclor 1016 #5	2.968	32324087	0.200 CAL
Aroclor 1260 #1	4.860	56439463	0.200 CAL
Aroclor 1260 #2	5.318	85052275	0.200 CAL
Aroclor 1260 #3	5.805	82438340	0.200 CAL
Aroclor 1260 #4	6.565	50225672	0.200 CAL
Aroclor 1260 #5	7.662	62143010	0.200 CAL
SURRDCBPCB	10.203	71795453	200.000 CAL
Aroclor 1016		129836108	1.000 CAL
Aroclor 1260		336298760	1.000 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\007.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICAL 5 PP 3875
Acquired: May 07,2013 10:01:40
Printed: May 07,2013 10:22:38

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.167	25808759	200.000 CAL
Aroclor 1016 #1	1.700	8660500	0.200 CAL
Aroclor 1016 #2	2.470	7378630	0.200 CAL
Aroclor 1016 #3	2.950	15552145	0.200 CAL
Aroclor 1016 #4	3.685	16178062	0.200 CAL
Aroclor 1016 #5	3.838	15838520	0.200 CAL
Aroclor 1260 #1	5.823	22686599	0.200 CAL
Aroclor 1260 #2	6.260	28194166	0.200 CAL
Aroclor 1260 #3	6.455	14633563	0.200 CAL
Aroclor 1260 #4	6.907	37608368	0.200 CAL
Aroclor 1260 #5	7.622	23188039	0.200 CAL
SURRDCBPCB	10.907	24585968	200.000 CAL
Aroclor 1016		63607857	1.000 CAL
Aroclor 1260		126310735	1.000 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 07,2013 10:38:06

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\008.dat	PCB ICV PP 3778	May 07,2013 10:38:05

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	102.812	2.812	20.000	Passed
Aroclor 1016 #1	0.100	0.102	2.081	20.000	Passed
Aroclor 1016 #2	0.100	0.102	1.729	20.000	Passed
Aroclor 1016 #3	0.100	0.101	1.093	20.000	Passed
Aroclor 1016 #4	0.100	0.103	3.191	20.000	Passed
Aroclor 1016 #5	0.100	0.100	0.406	20.000	Passed
Aroclor 1260 #1	0.100	0.101	1.441	20.000	Passed
Aroclor 1260 #2	0.100	0.101	1.371	20.000	Passed
Aroclor 1260 #3	0.100	0.107	6.653	20.000	Passed
Aroclor 1260 #4	0.100	0.089	10.792	20.000	Passed
Aroclor 1260 #5	0.100	0.098	2.423	20.000	Passed
SURRDCBPCB	100.000	105.337	5.337	20.000	Passed
Aroclor 1016	0.500	0.509	1.700	20.000	Passed
Aroclor 1260	0.500	0.496	0.750	20.000	Passed

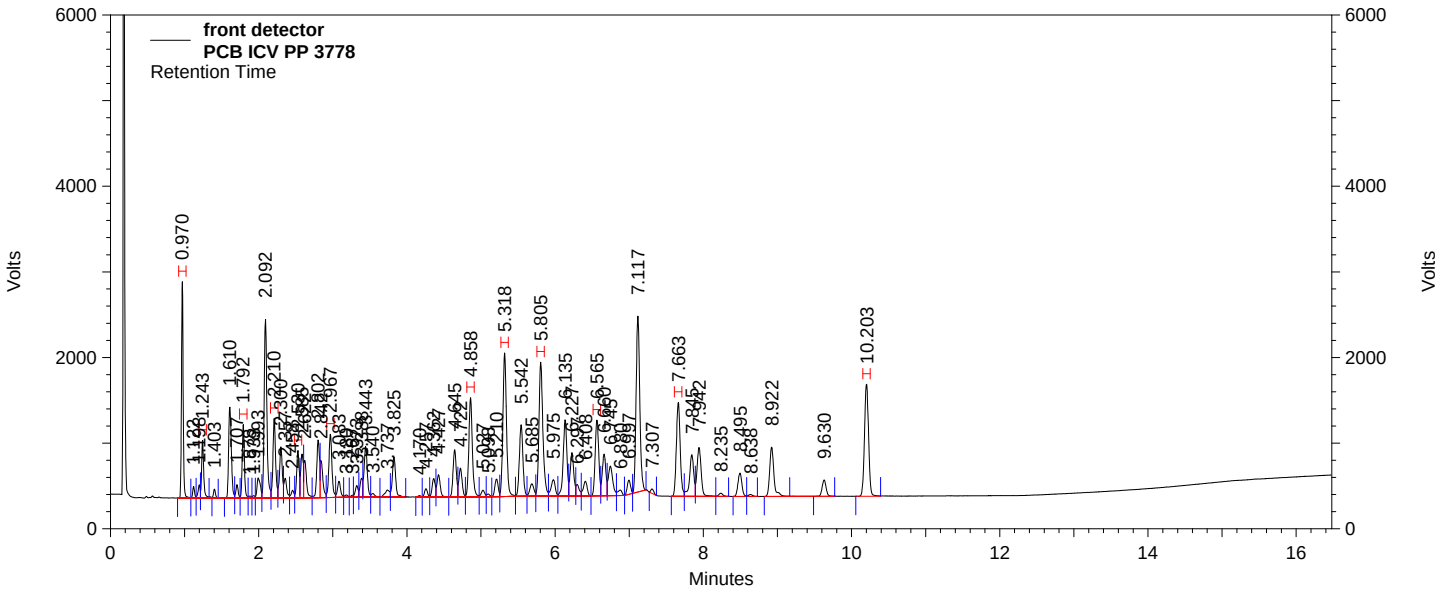
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	102.523	2.523	20.000	Passed
Aroclor 1016 #1	0.100	0.102	2.464	20.000	Passed
Aroclor 1016 #2	0.100	0.103	2.531	20.000	Passed
Aroclor 1016 #3	0.100	0.103	3.335	20.000	Passed
Aroclor 1016 #4	0.100	0.102	2.226	20.000	Passed
Aroclor 1016 #5	0.100	0.104	3.930	20.000	Passed
Aroclor 1260 #1	0.100	0.102	2.174	20.000	Passed
Aroclor 1260 #2	0.100	0.102	1.661	20.000	Passed
Aroclor 1260 #3	0.100	0.101	1.354	20.000	Passed
Aroclor 1260 #4	0.100	0.107	7.150	20.000	Passed
Aroclor 1260 #5	0.100	0.095	5.168	20.000	Passed
SURRDCBPCB	100.000	106.777	6.777	20.000	Passed
Aroclor 1016	0.500	0.514	2.897	20.000	Passed
Aroclor 1260	0.500	0.507	1.434	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\008.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICV PP 3778
Acquired: May 07,2013 10:21:19
Printed: May 07,2013 10:38:03

Data Summary: {Data Description}



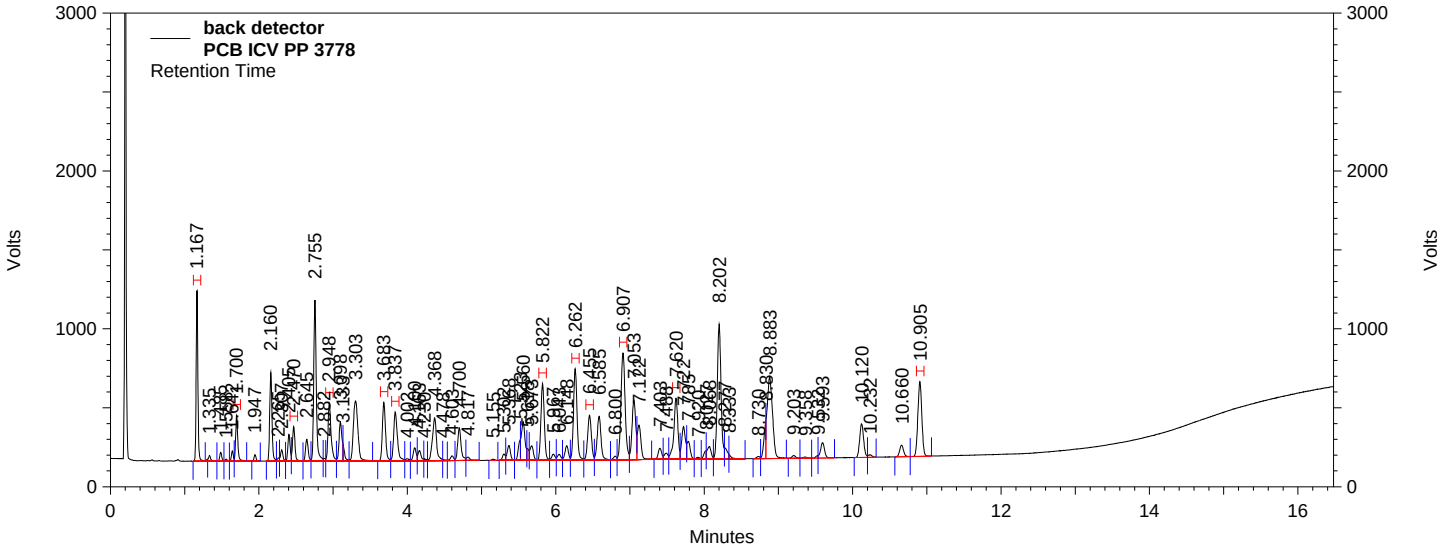
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.970	30748223	102.812
Aroclor 1016 #1	1.243	9992395	0.102
Aroclor 1016 #2	1.792	13396756	0.102
Aroclor 1016 #3	2.210	17553224	0.101
Aroclor 1016 #4	2.530	9897760	0.103
Aroclor 1016 #5	2.967	16538200	0.100
Aroclor 1260 #1	4.858	29231431	0.101
Aroclor 1260 #2	5.318	43843986	0.101
Aroclor 1260 #3	5.805	44321839	0.107
Aroclor 1260 #4	6.565	22745552	0.089
Aroclor 1260 #5	7.663	30482559	0.098
SURRDCBPCB	10.203	38510759	105.337
Aroclor 1016		67378335	0.509
Aroclor 1260		170625367	0.496

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\008.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: PCB ICV PP 3778
Acquired: May 07,2013 10:21:19
Printed: May 07,2013 10:38:03

Data Summary: {Data Description}



back detector Results

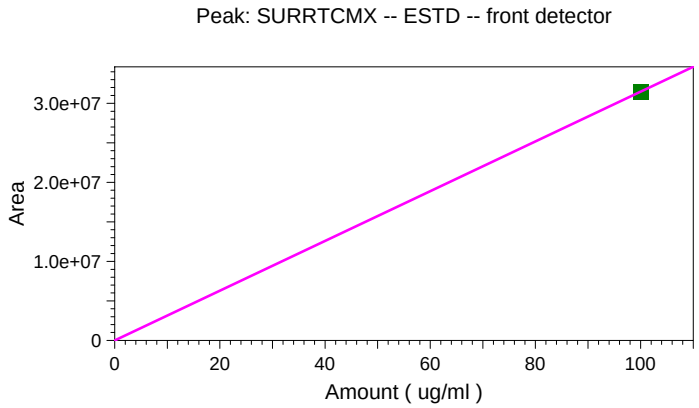
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.167	13192988	102.523
Aroclor 1016 #1	1.700	4537290	0.102
Aroclor 1016 #2	2.470	3860419	0.103
Aroclor 1016 #3	2.948	8098344	0.103
Aroclor 1016 #4	3.683	8396877	0.102
Aroclor 1016 #5	3.837	8335433	0.104
Aroclor 1260 #1	5.822	11838215	0.102
Aroclor 1260 #2	6.262	14583363	0.102
Aroclor 1260 #3	6.455	7567510	0.101
Aroclor 1260 #4	6.907	20346734	0.107
Aroclor 1260 #5	7.620	11174423	0.095
SURRDCBPCB	10.905	13548083	106.777
Aroclor 1016		33228363	0.514
Aroclor 1260		65510245	0.507

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:22
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (front detector)
Average RF: 314786.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 314786.



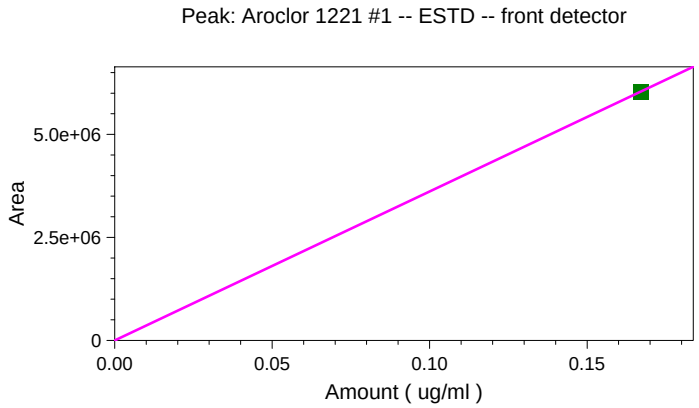
	Level 1
Amount	100
Area	31478582
RF	314785.82
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	31478582
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:26
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1221 #1 (front detector)
Average RF: 3.61479e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.61479e+007



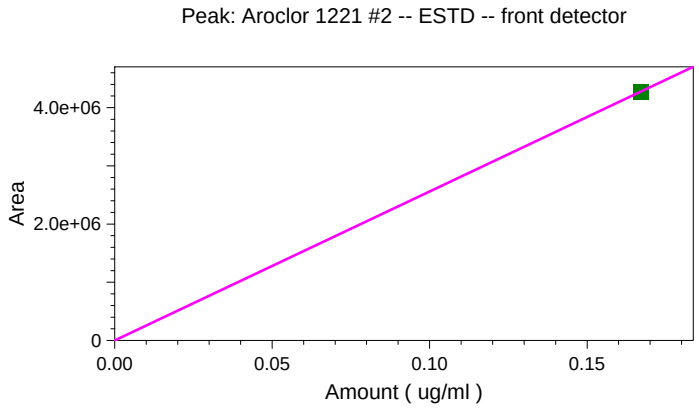
	Level 1
Amount	0.167
Area	6036700
RF	36147904.19
	16168
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	6036700
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:28
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1221 #2 (front detector)
Average RF: 2.55950e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.55950e+007



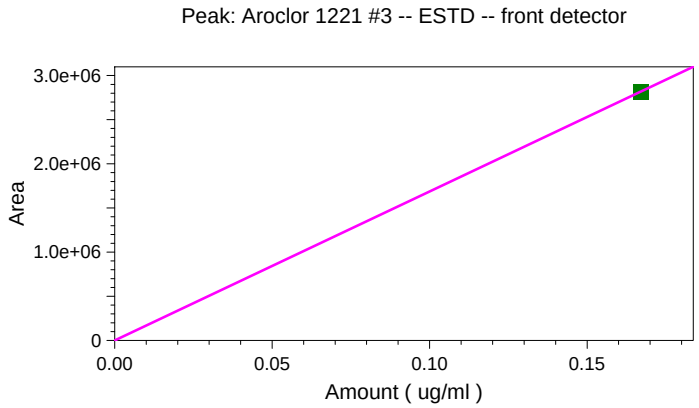
	Level 1
Amount	0.167
Area	4274362
RF	25594982.03
	59281
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	4274362
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:29
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1221 #3 (front detector)
Average RF: 1.68709e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.68709e+007



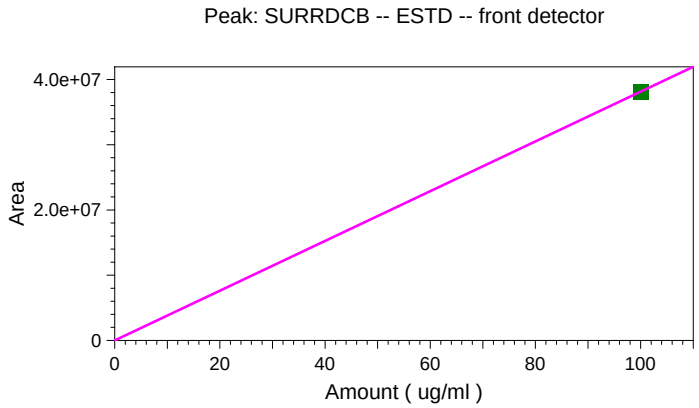
	Level 1
Amount	0.167
Area	2817432
RF	16870850.29
	94012
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	2817432
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:30
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (front detector)
Average RF: 381342.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 381342.



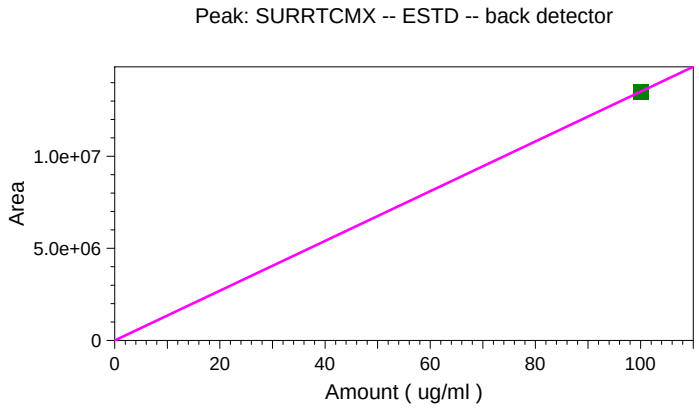
	Level 1
Amount	100
Area	38134229
RF	381342.29
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	38134229
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:36
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (back detector)
Average RF: 135095.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 135095.



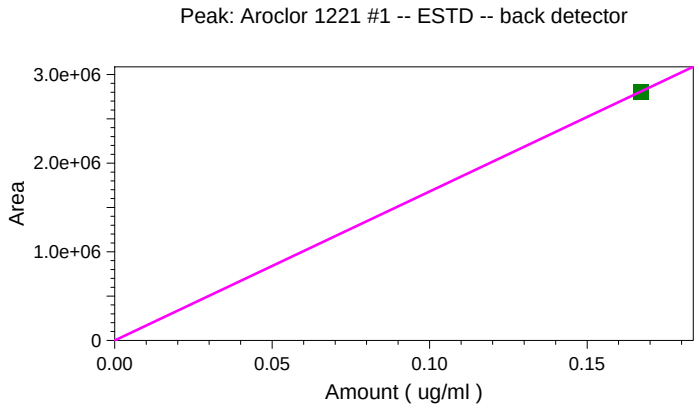
	Level 1
Amount	100
Area	13509458
RF	135094.58
Last Area	
Residual	-1.42109e-014
Rep StDev	
Rep %RSD	
Rep 1 Area	13509458
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:38
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1221 #1 (back detector)
Average RF: 1.68061e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.68061e+007



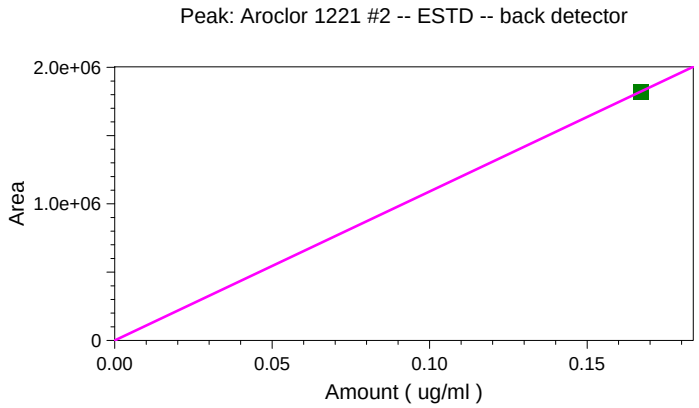
	Level 1
Amount	0.167
Area	2806626
RF	16806143.71
	25749
Last Area	
Residual	2.77556e-017
Rep StDev	
Rep %RSD	
Rep 1 Area	2806626
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:39
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1221 #2 (back detector)
Average RF: 1.09099e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.09099e+007



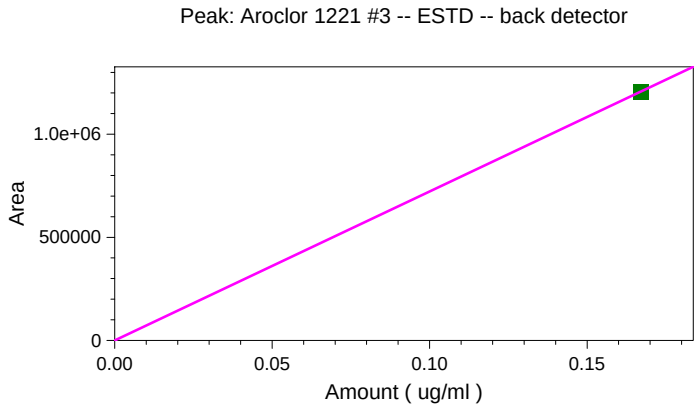
	Level 1
Amount	0.167
Area	1821955
RF	10909910.17
	96407
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	1821955
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:40
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1221 #3 (back detector)
Average RF: 7.22453e+006
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.22453e+006



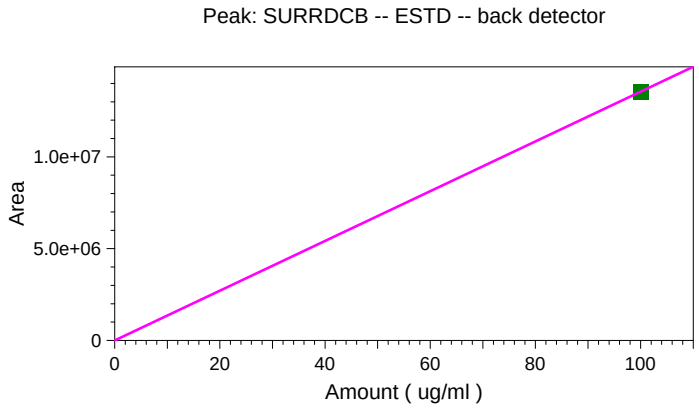
	Level 1
Amount	0.167
Area	1206496
RF	7224526.946
	10778
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	1206496
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
Print Time: May 07,2013 11:20:41
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (back detector)
Average RF: 135526.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 135526.



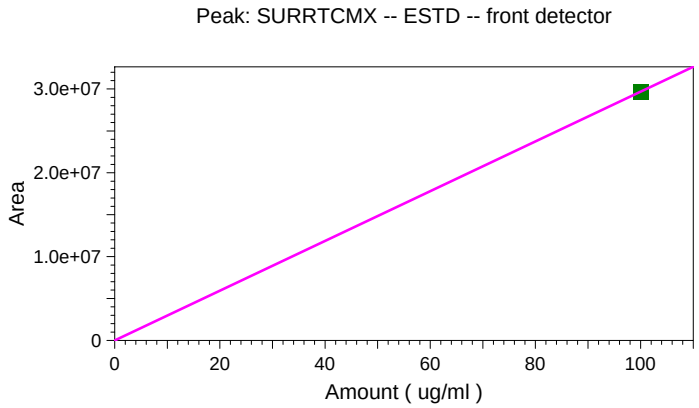
	Level 1
Amount	100
Area	13552646
RF	135526.46
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	13552646
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\010.dat
Rep 1 Sample ID	PCB 1221 CF PP 3793
Rep 1 Calib. Time	May 07,2013 11:19:33

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:26
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (front detector)
Average RF: 296807.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 296807.



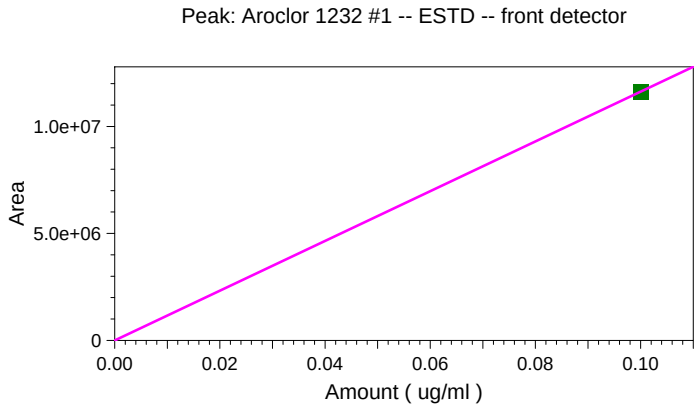
	Level 1
Amount	100
Area	29680700
RF	296807
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	29680700
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:39
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #1 (front detector)
Average RF: 1.16278e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16278e+008



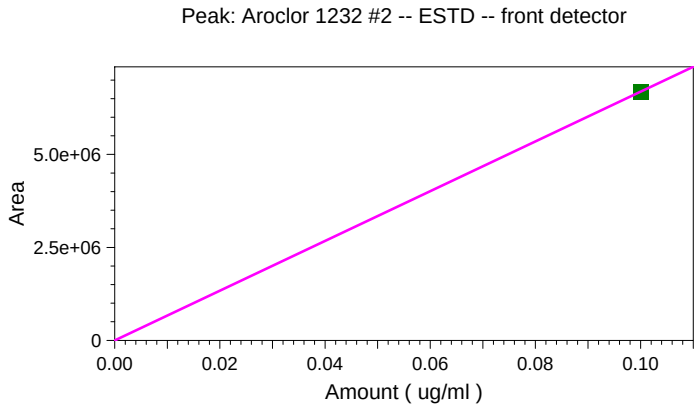
	Level 1
Amount	0.1
Area	11627754
RF	116277540
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	11627754
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:41
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #2 (front detector)
Average RF: 6.68874e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.68874e+007



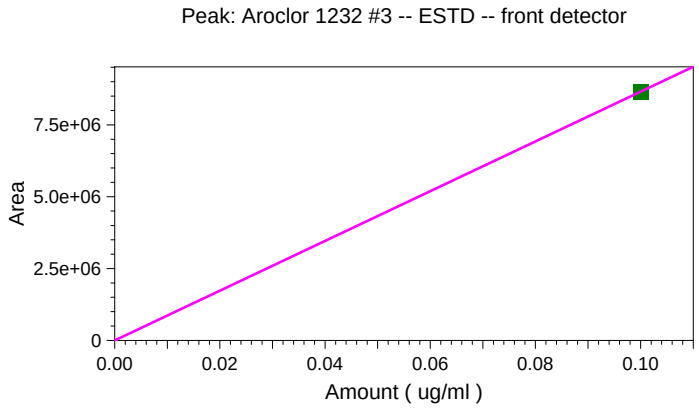
	Level 1
Amount	0.1
Area	6688743
RF	66887430
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	6688743
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:42
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #3 (front detector)
Average RF: 8.65494e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.65494e+007



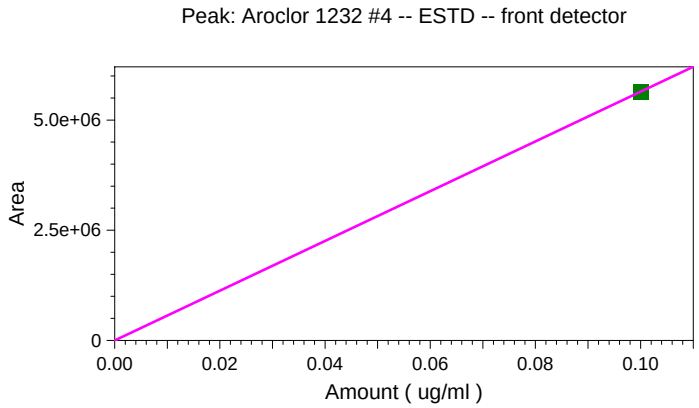
	Level 1
Amount	0.1
Area	8654942
RF	86549420
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	8654942
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:43
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #4 (front detector)
Average RF: 5.64359e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.64359e+007



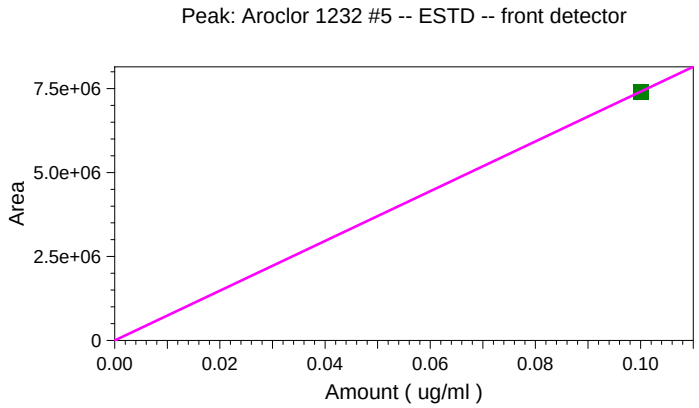
	Level 1
Amount	0.1
Area	5643586
RF	56435860
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5643586
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:44
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #5 (front detector)
Average RF: 7.40946e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.40946e+007



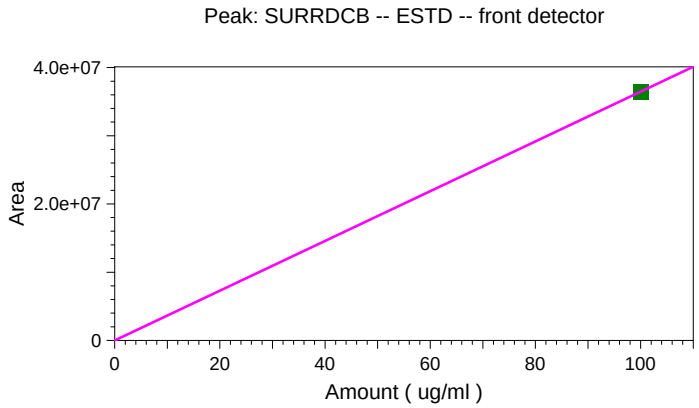
	Level 1
Amount	0.1
Area	7409460
RF	74094600
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	7409460
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:46
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (front detector)
Average RF: 364620.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 364620.



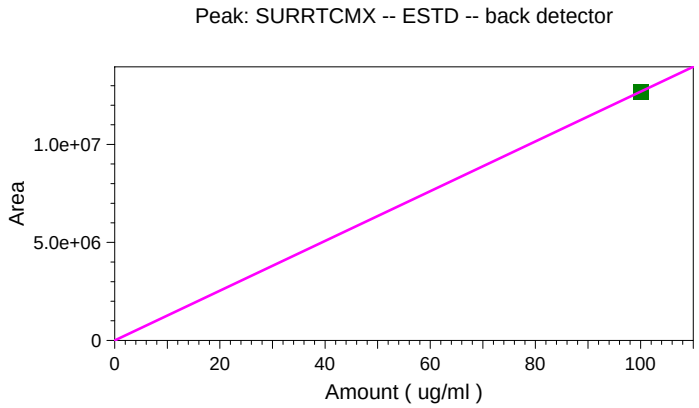
	Level 1
Amount	100
Area	36462018
RF	364620.18
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	36462018
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:54
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (back detector)
Average RF: 126924.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 126924.



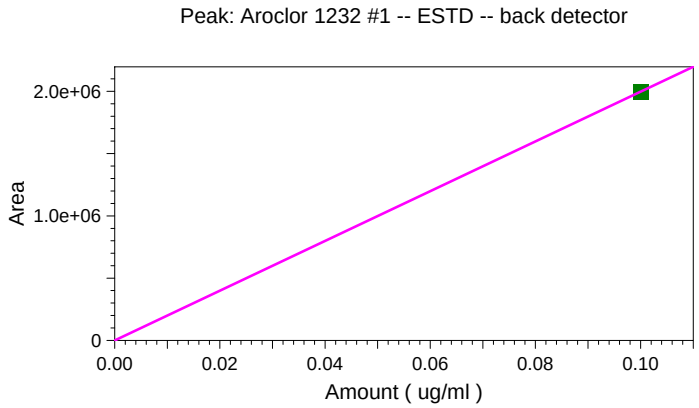
	Level 1
Amount	100
Area	12692412
RF	126924.12
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12692412
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:57
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #1 (back detector)
Average RF: 1.99727e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.99727e+007



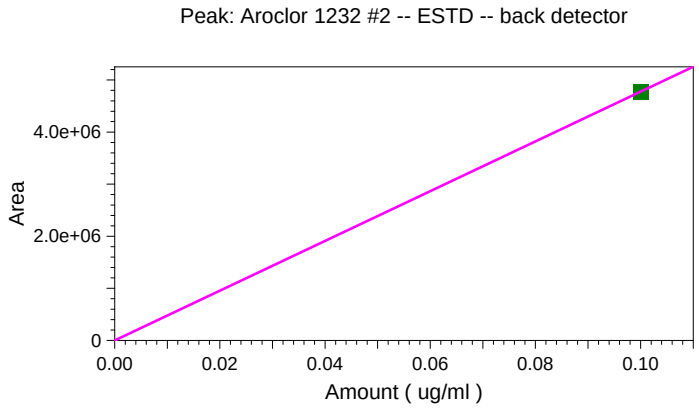
	Level 1
Amount	0.1
Area	1997272
RF	19972720
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	1997272
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:58
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #2 (back detector)
Average RF: 4.77583e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.77583e+007



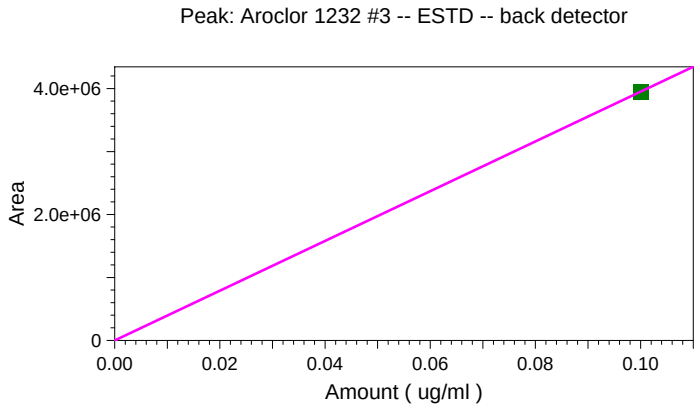
	Level 1
Amount	0.1
Area	4775829
RF	47758290
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	4775829
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:39:59
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #3 (back detector)
Average RF: 3.95080e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.95080e+007



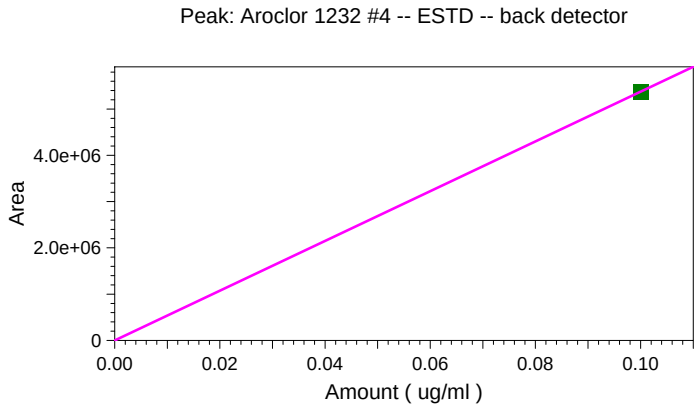
	Level 1
Amount	0.1
Area	3950799
RF	39507990
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	3950799
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:40:01
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #4 (back detector)
Average RF: 5.37526e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.37526e+007



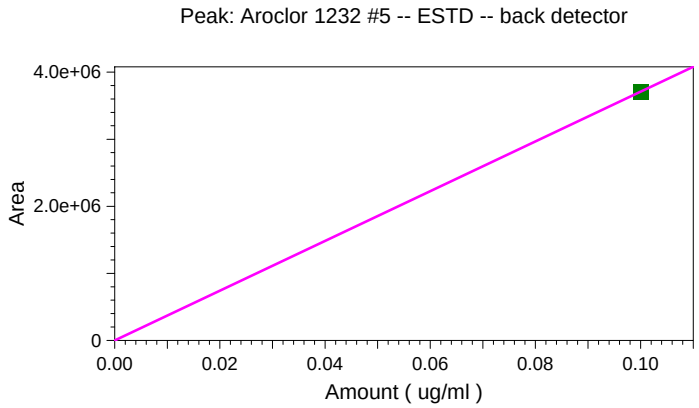
	Level 1
Amount	0.1
Area	5375256
RF	53752560
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5375256
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:40:02
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1232 #5 (back detector)
Average RF: 3.70888e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.70888e+007



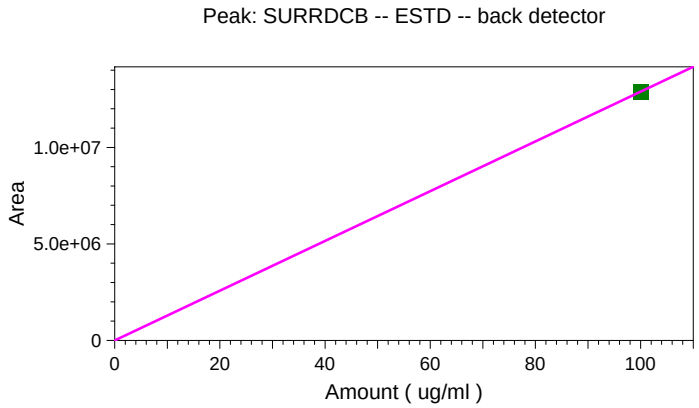
	Level 1
Amount	0.1
Area	3708884
RF	37088840
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	3708884
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
Print Time: May 07,2013 11:40:04
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (back detector)
Average RF: 128887.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 128887.



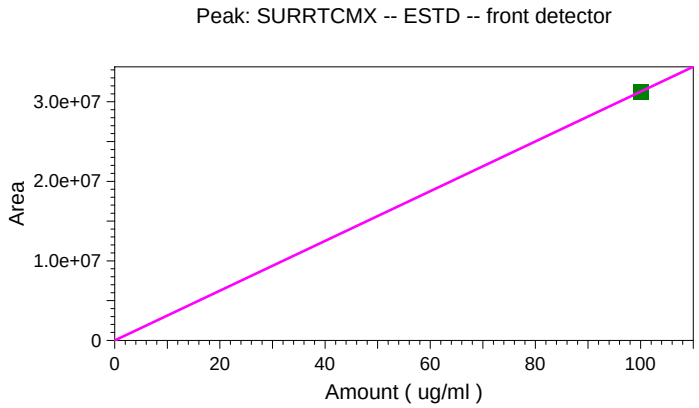
	Level 1
Amount	100
Area	12888656
RF	128886.56
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12888656
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\011.dat
Rep 1 Sample ID	PCB 1232 CF PP 3798
Rep 1 Calib. Time	May 07,2013 11:38:59

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:24
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (front detector)
Average RF: 312696.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 312696.



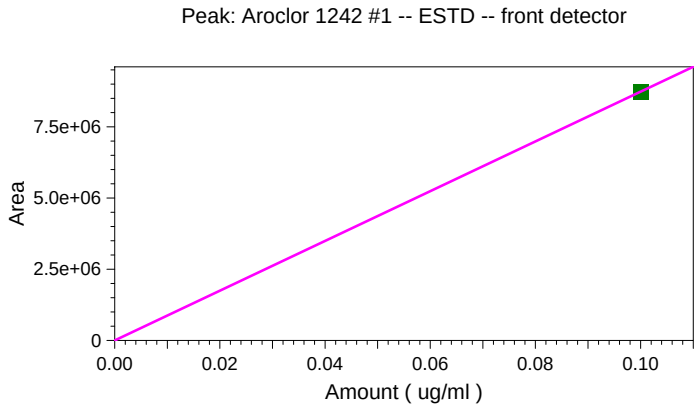
	Level 1
Amount	100
Area	31269626
RF	312696.26
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	31269626
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:27
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #1 (front detector)
Average RF: 8.73516e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.73516e+007



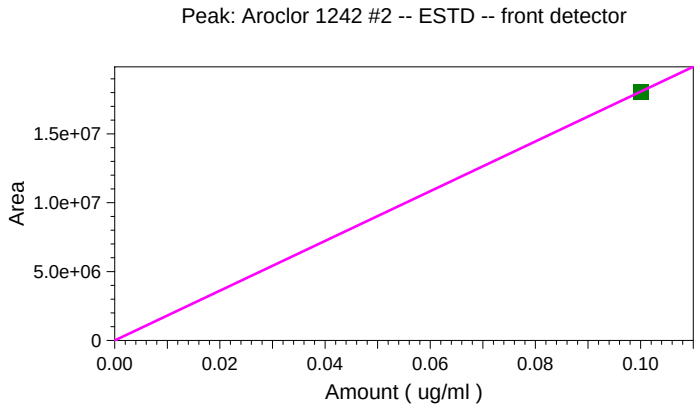
	Level 1
Amount	0.1
Area	8735157
RF	87351570
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	8735157
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:29
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #2 (front detector)
Average RF: 1.80623e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.80623e+008



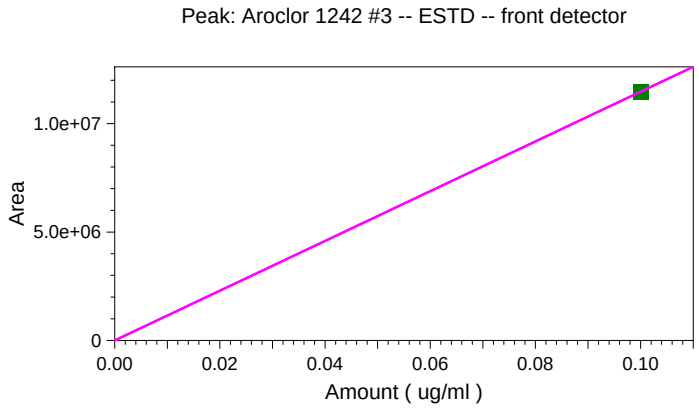
	Level 1
Amount	0.1
Area	18062287
RF	180622870
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	18062287
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:30
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #3 (front detector)
Average RF: 1.14754e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.14754e+008



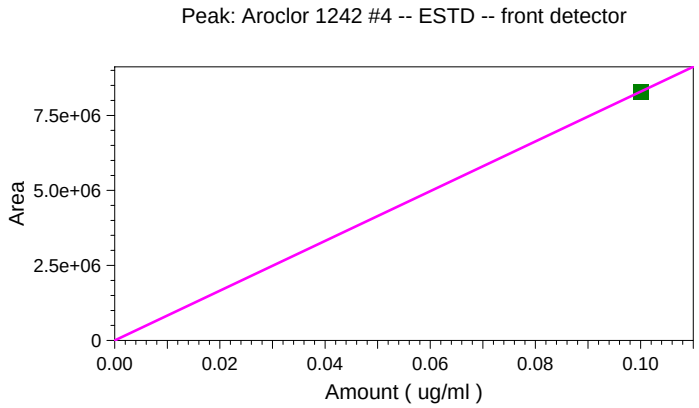
	Level 1
Amount	0.1
Area	11475366
RF	114753660
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	11475366
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:31
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #4 (front detector)
Average RF: 8.29140e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.29140e+007



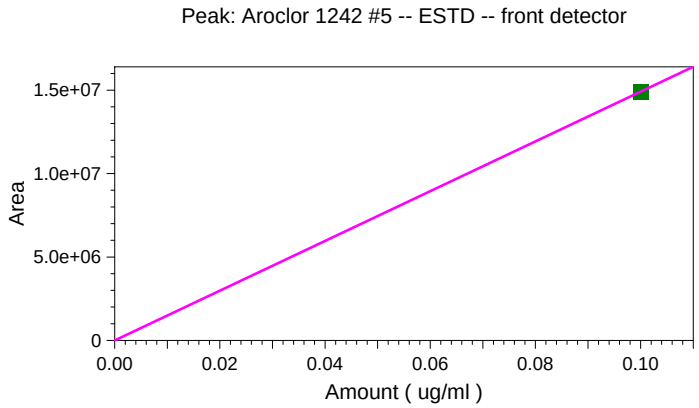
	Level 1
Amount	0.1
Area	8291403
RF	82914030
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	8291403
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:32
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #5 (front detector)
Average RF: 1.49098e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.49098e+008



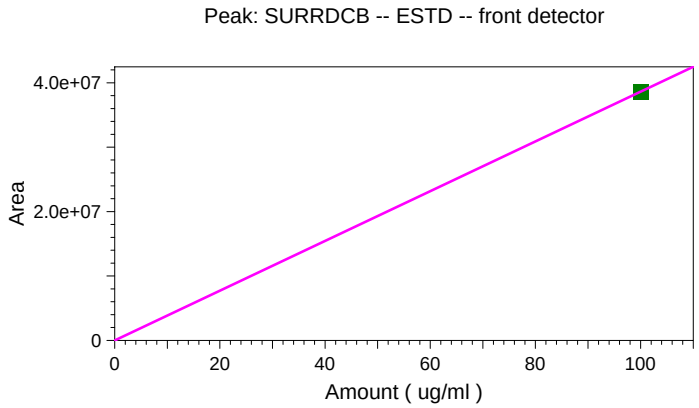
	Level 1
Amount	0.1
Area	14909847
RF	149098470
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	14909847
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:34
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (front detector)
Average RF: 386179.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 386179.



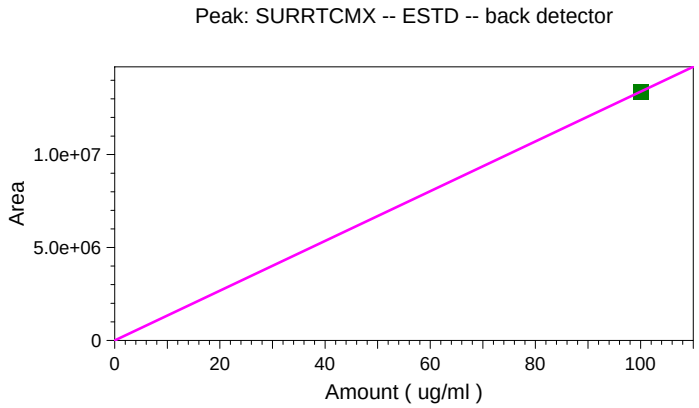
	Level 1
Amount	100
Area	38617870
RF	386178.7
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	38617870
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:38
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (back detector)
Average RF: 133879.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 133879.



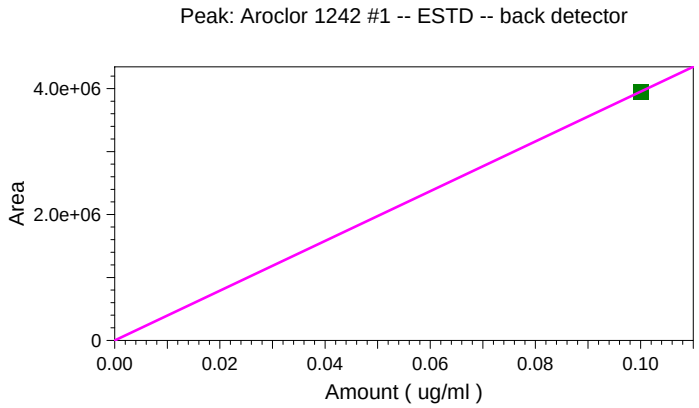
	Level 1
Amount	100
Area	13387928
RF	133879.28
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	13387928
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:41
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #1 (back detector)
Average RF: 3.95169e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.95169e+007



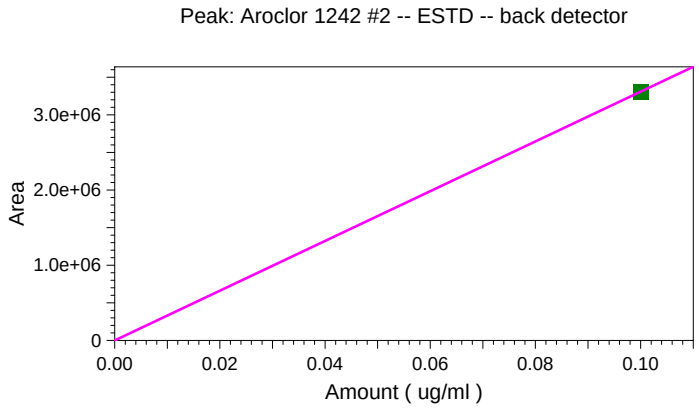
	Level 1
Amount	0.1
Area	3951691
RF	39516910
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	3951691
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:42
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #2 (back detector)
Average RF: 3.30865e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.30865e+007



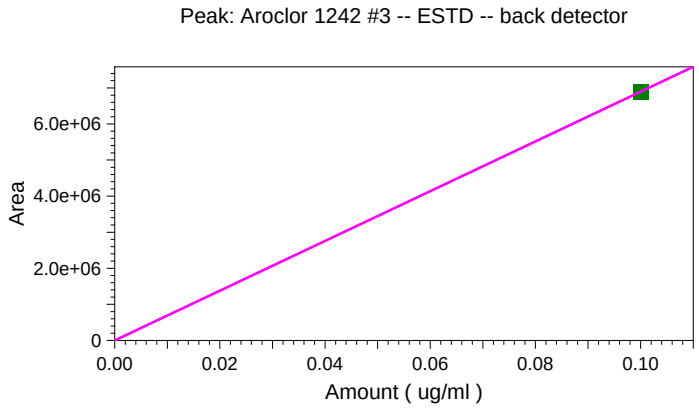
	Level 1
Amount	0.1
Area	3308651
RF	33086510
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	3308651
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:43
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #3 (back detector)
Average RF: 6.89530e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.89530e+007



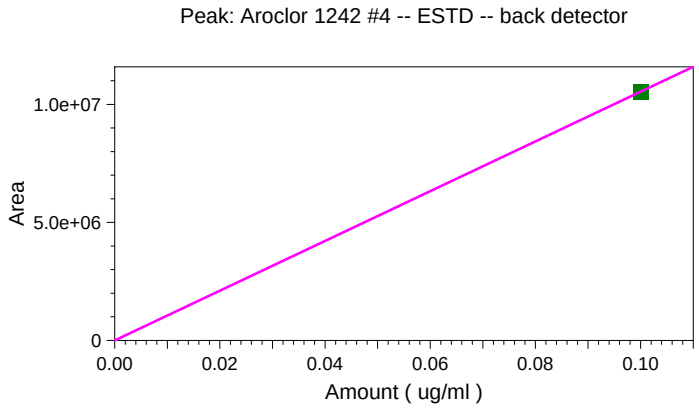
	Level 1
Amount	0.1
Area	6895303
RF	68953030
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	6895303
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:44
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #4 (back detector)
Average RF: 1.05393e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.05393e+008



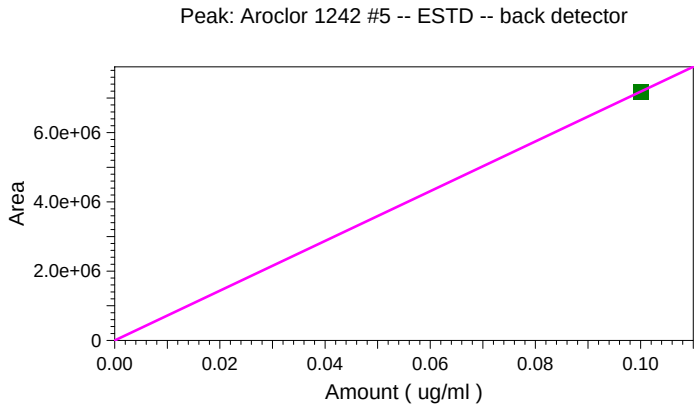
	Level 1
Amount	0.1
Area	10539263
RF	105392630
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10539263
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:45
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1242 #5 (back detector)
Average RF: 7.18301e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.18301e+007



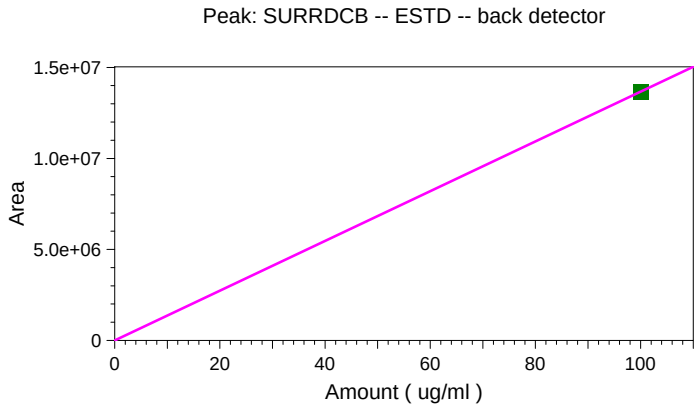
	Level 1
Amount	0.1
Area	7183010
RF	71830100
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	7183010
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
Print Time: May 07,2013 12:42:47
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (back detector)
Average RF: 136672.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 136672.



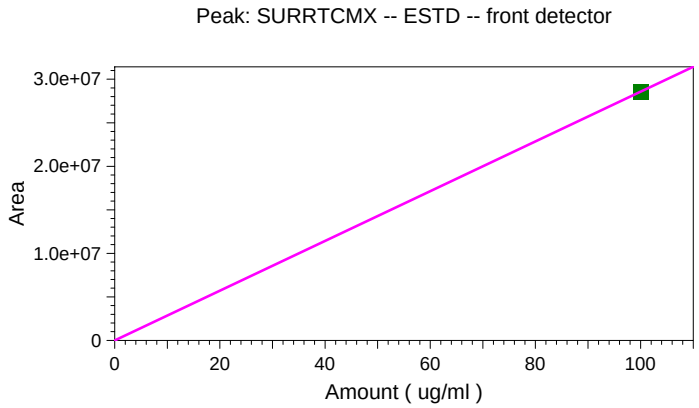
	Level 1
Amount	100
Area	13667159
RF	136671.59
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	13667159
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\012.dat
Rep 1 Sample ID	PCB 1242 CF PP 3803
Rep 1 Calib. Time	May 07,2013 12:38:00

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:29
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (front detector)
Average RF: 285681.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 285681.



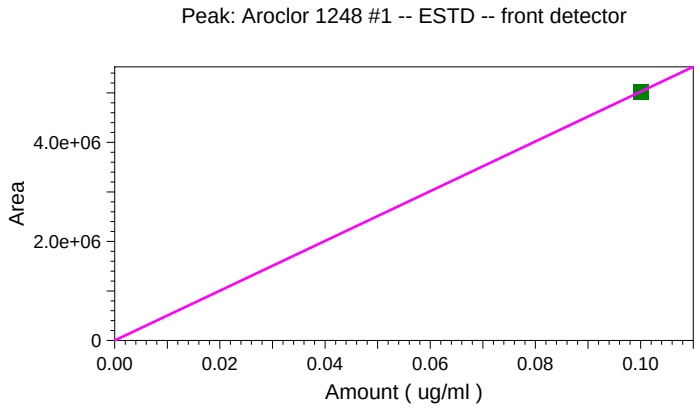
	Level 1
Amount	100
Area	28568056
RF	285680.56
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	28568056
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:32
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #1 (front detector)
Average RF: 5.02554e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.02554e+007



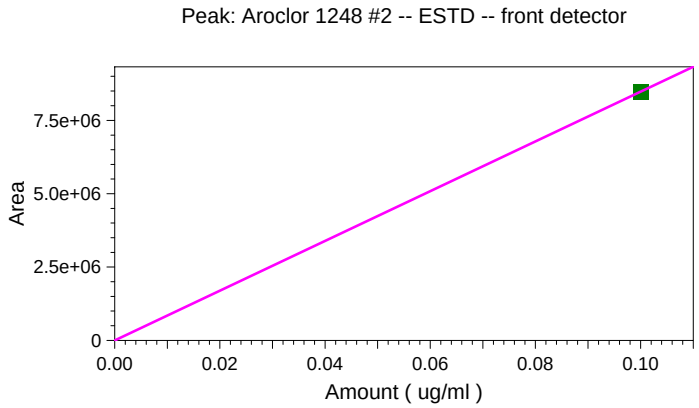
	Level 1
Amount	0.1
Area	5025539
RF	50255390
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5025539
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:34
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #2 (front detector)
Average RF: 8.47893e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.47893e+007



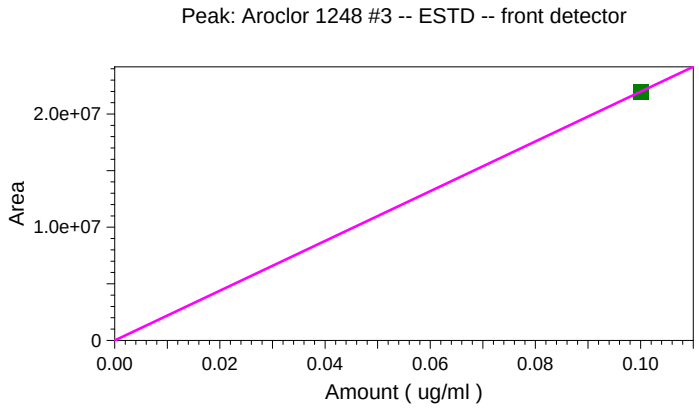
	Level 1
Amount	0.1
Area	8478928
RF	84789280
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	8478928
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:35
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #3 (front detector)
Average RF: 2.19784e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.19784e+008



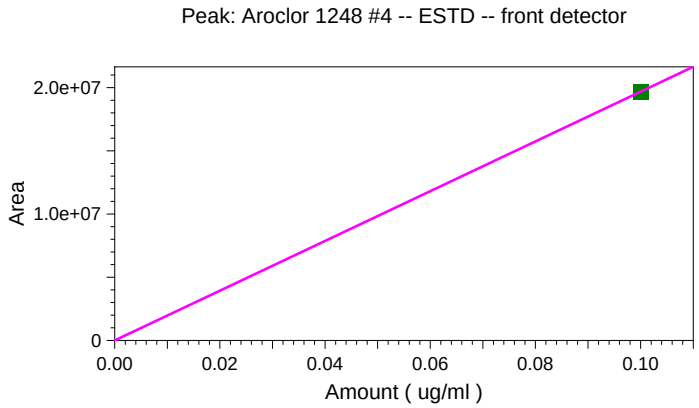
	Level 1
Amount	0.1
Area	21978383
RF	219783830
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	21978383
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:36
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #4 (front detector)
Average RF: 1.96827e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.96827e+008



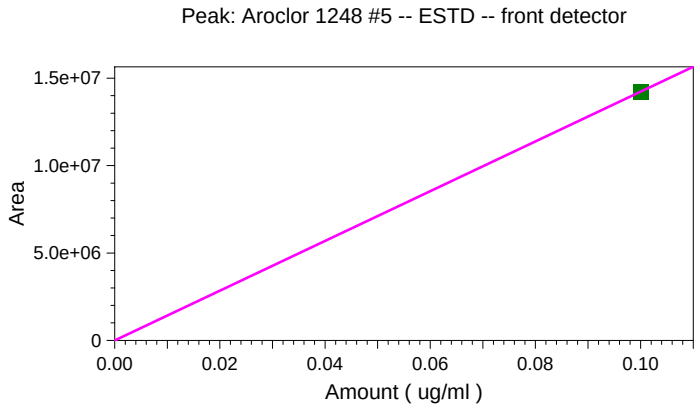
	Level 1
Amount	0.1
Area	19682711
RF	196827110
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	19682711
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:38
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #5 (front detector)
Average RF: 1.42315e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.42315e+008



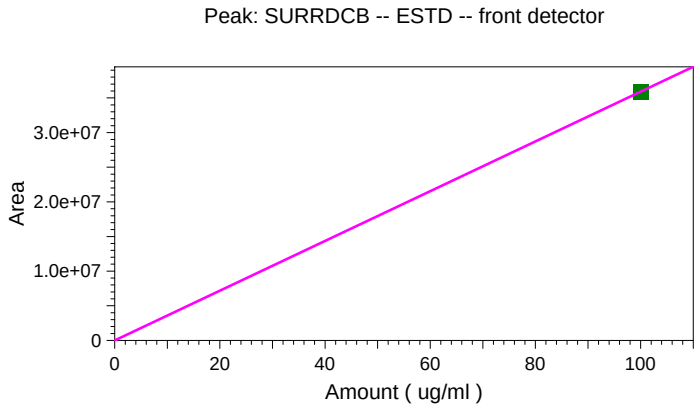
	Level 1
Amount	0.1
Area	14231454
RF	142314540
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	14231454
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:39
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (front detector)
Average RF: 359019.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 359019.



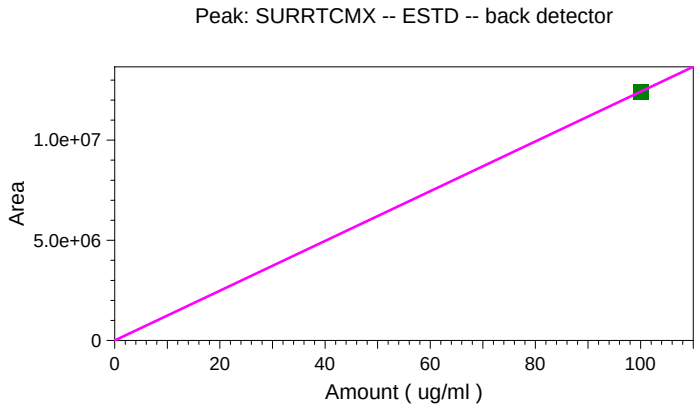
	Level 1
Amount	100
Area	35901885
RF	359018.85
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	35901885
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:43
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (back detector)
Average RF: 124229.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 124229.



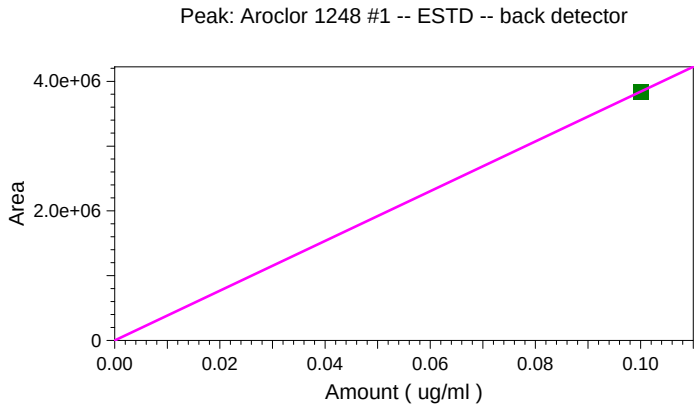
	Level 1
Amount	100
Area	12422941
RF	124229.41
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12422941
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:45
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #1 (back detector)
Average RF: 3.84018e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.84018e+007



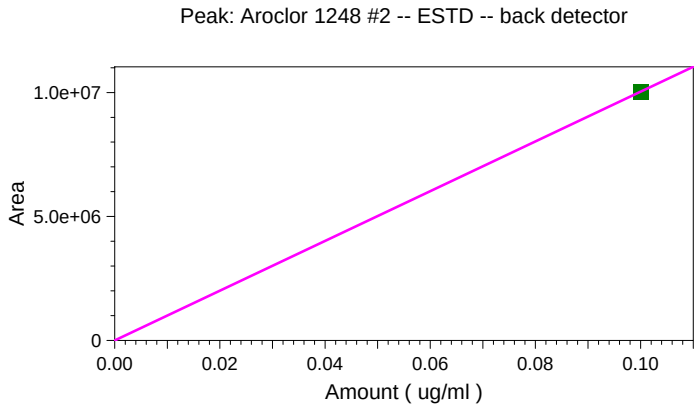
	Level 1
Amount	0.1
Area	3840180
RF	38401800
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	3840180
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:46
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #2 (back detector)
Average RF: 1.00361e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.00361e+008



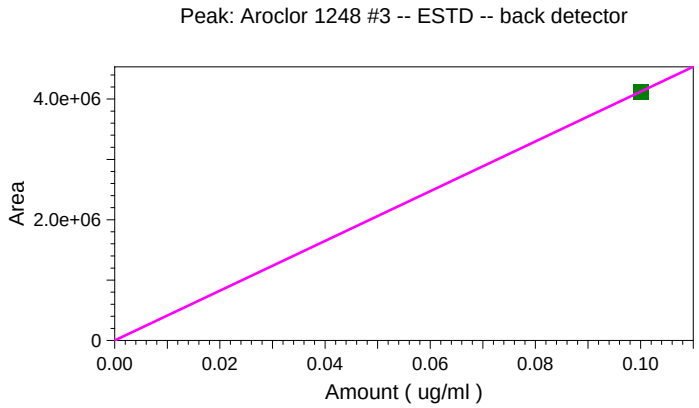
	Level 1
Amount	0.1
Area	10036079
RF	100360790
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10036079
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:47
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #3 (back detector)
Average RF: 4.12255e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.12255e+007



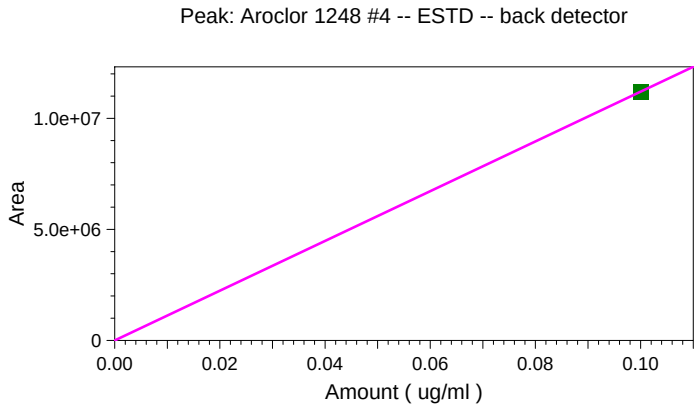
	Level 1
Amount	0.1
Area	4122551
RF	41225510
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	4122551
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:49
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #4 (back detector)
Average RF: 1.12016e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.12016e+008



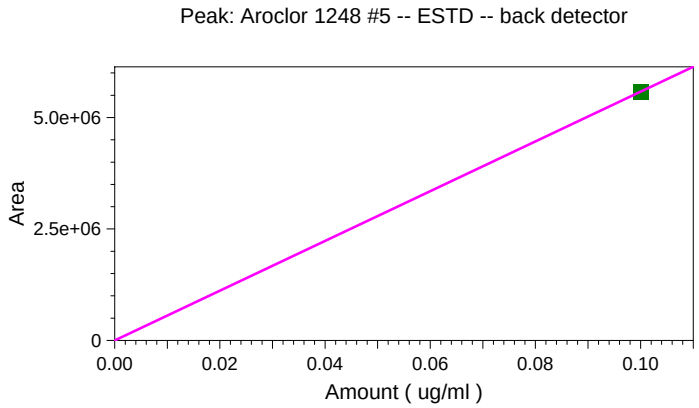
	Level 1
Amount	0.1
Area	11201634
RF	112016340
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	11201634
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:50
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1248 #5 (back detector)
Average RF: 5.58044e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.58044e+007



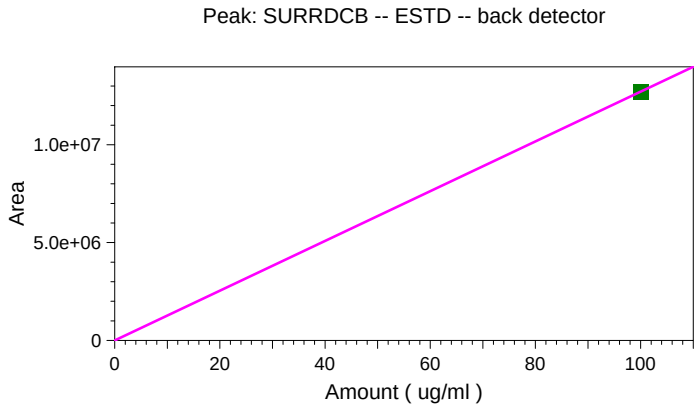
	Level 1
Amount	0.1
Area	5580444
RF	55804440
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5580444
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
Print Time: May 07,2013 12:44:51
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (back detector)
Average RF: 127113.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 127113.



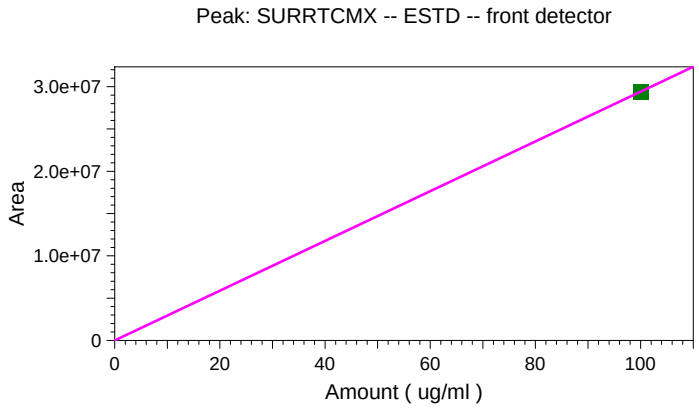
	Level 1
Amount	100
Area	12711271
RF	127112.71
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12711271
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\013.dat
Rep 1 Sample ID	PCB 1248 CF PP 3808
Rep 1 Calib. Time	May 07,2013 12:39:26

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:48:53
User: JJY
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 294134.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 294134.



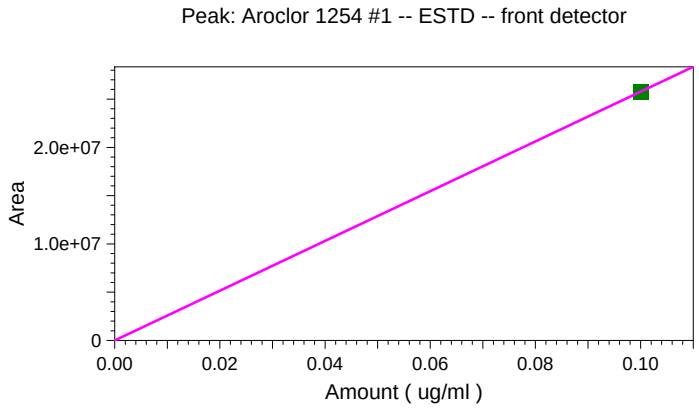
	Level 1
Amount	100
Area	29413395
RF	294133.95
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	29413395
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:04
User: JJY
Instrument: Semi 7

Aroclor 1254 #1 (front detector)
Average RF: 2.57709e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.57709e+008



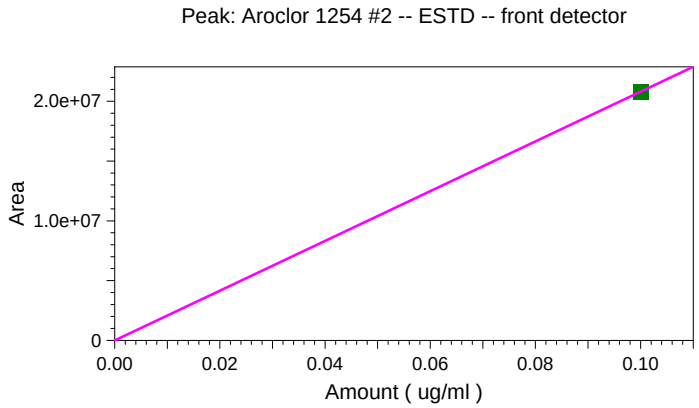
	Level 1
Amount	0.1
Area	25770935
RF	257709350
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	25770935
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:06
User: JJY
Instrument: Semi 7

Aroclor 1254 #2 (front detector)
Average RF: 2.08060e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.08060e+008



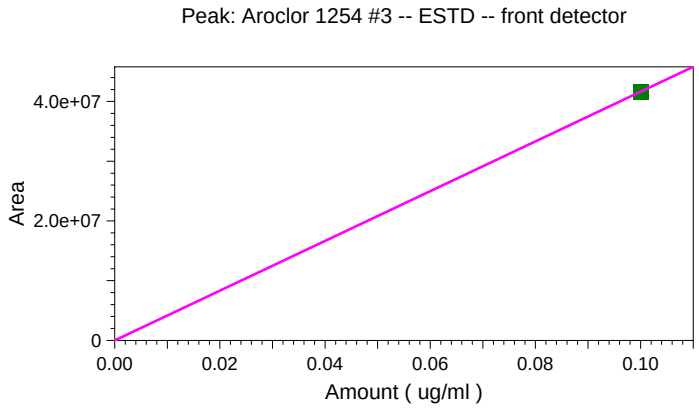
	Level 1
Amount	0.1
Area	20805971
RF	208059710
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20805971
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:08
User: JJY
Instrument: Semi 7

Aroclor 1254 #3 (front detector)
Average RF: 4.16428e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.16428e+008



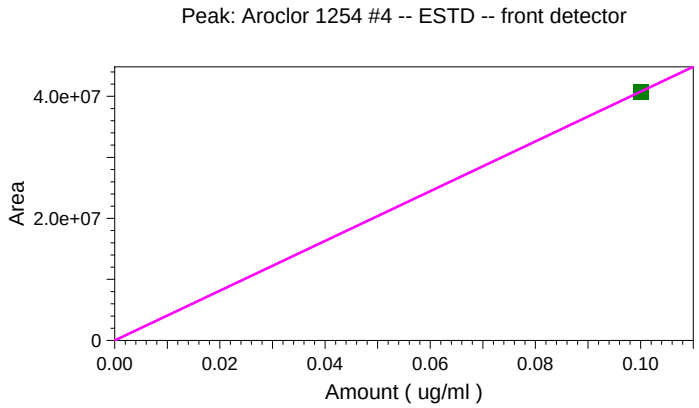
	Level 1
Amount	0.1
Area	41642766
RF	416427660
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	41642766
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:09
User: JJY
Instrument: Semi 7

Aroclor 1254 #4 (front detector)
Average RF: 4.07661e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.07661e+008



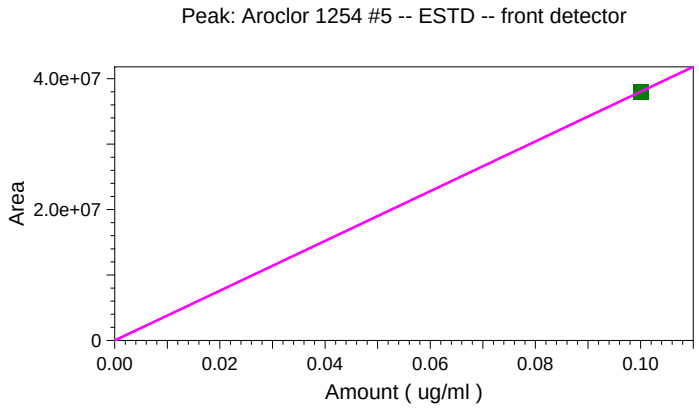
	Level 1
Amount	0.1
Area	40766059
RF	407660590
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	40766059
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:10
User: JJY
Instrument: Semi 7

Aroclor 1254 #5 (front detector)
Average RF: 3.80142e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.80142e+008



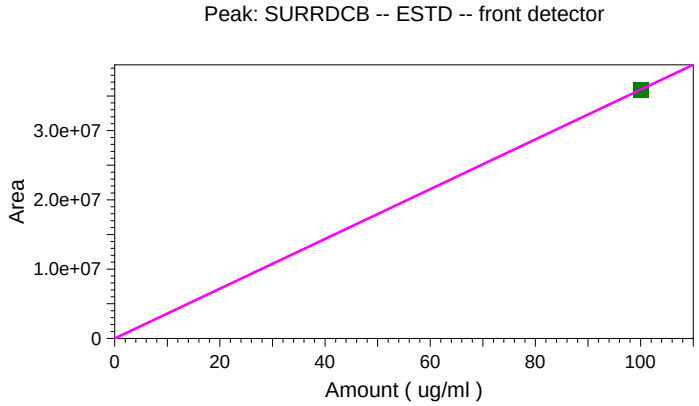
	Level 1
Amount	0.1
Area	38014198
RF	380141980
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	38014198
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:11
User: JJY
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 359062.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 359062.



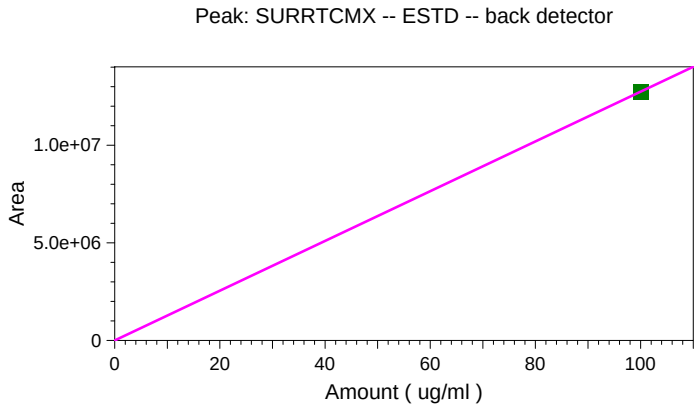
	Level 1
Amount	100
Area	35906181
RF	359061.81
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	35906181
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:17
User: JJY
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 127442.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 127442.



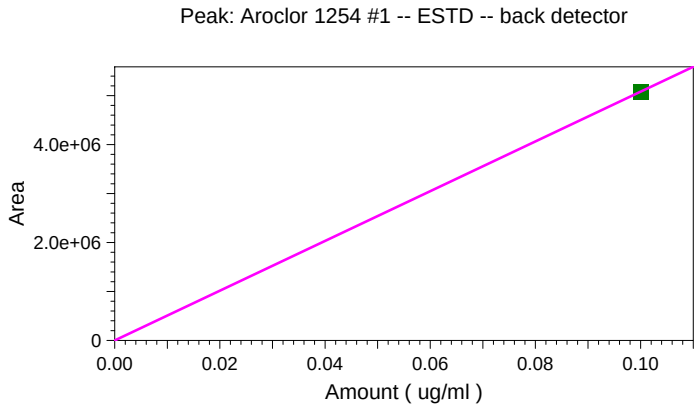
	Level 1
Amount	100
Area	12744212
RF	127442.12
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12744212
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:19
User: JJY
Instrument: Semi 7

Aroclor 1254 #1 (back detector)
Average RF: 5.08088e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.08088e+007



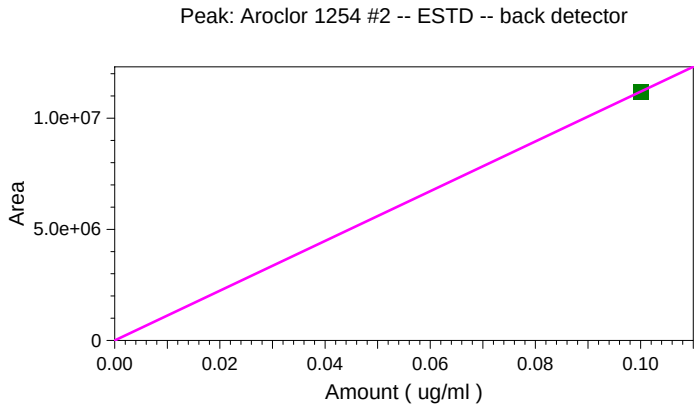
	Level 1
Amount	0.1
Area	5080876
RF	50808760
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5080876
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:21
User: JJY
Instrument: Semi 7

Aroclor 1254 #2 (back detector)
Average RF: 1.11961e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.11961e+008



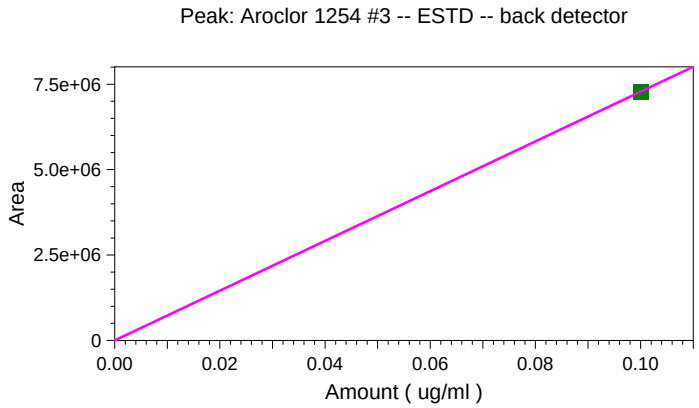
	Level 1
Amount	0.1
Area	11196071
RF	111960710
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	11196071
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:22
User: JJY
Instrument: Semi 7

Aroclor 1254 #3 (back detector)
Average RF: 7.28301e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.28301e+007



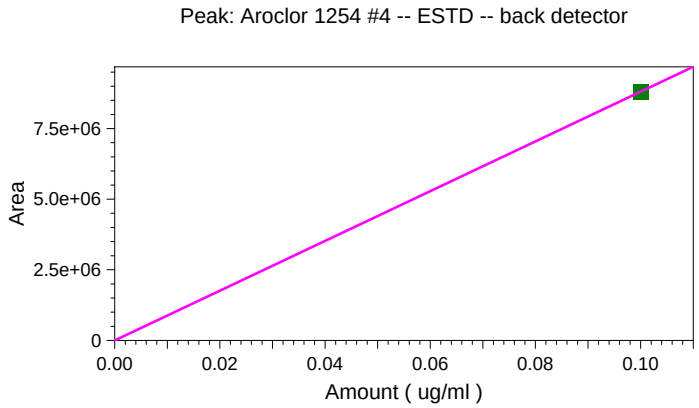
	Level 1
Amount	0.1
Area	7283009
RF	72830090
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	7283009
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:23
User: JJY
Instrument: Semi 7

Aroclor 1254 #4 (back detector)
Average RF: 8.80729e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.80729e+007



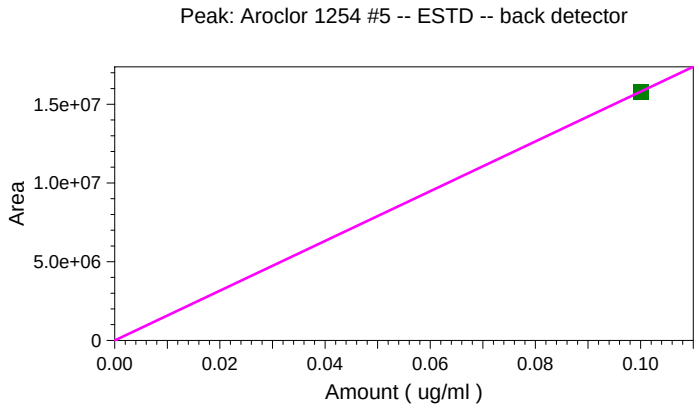
	Level 1
Amount	0.1
Area	8807286
RF	88072860
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	8807286
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:24
User: JJY
Instrument: Semi 7

Aroclor 1254 #5 (back detector)
Average RF: 1.57988e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.57988e+008



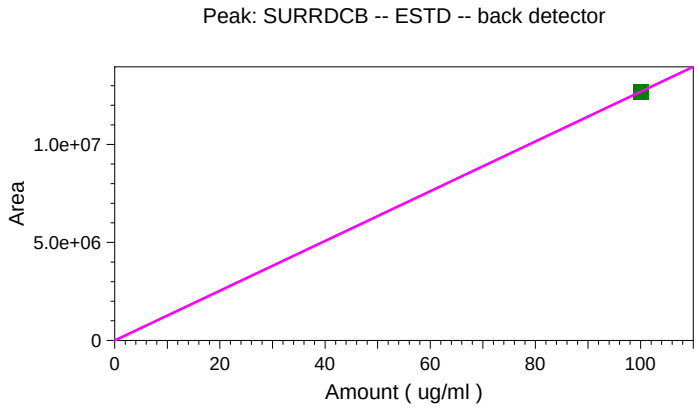
	Level 1
Amount	0.1
Area	15798816
RF	157988160
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	15798816
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
Print Time: May 09,2013 08:49:25
User: JJY
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 126942.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 126942.



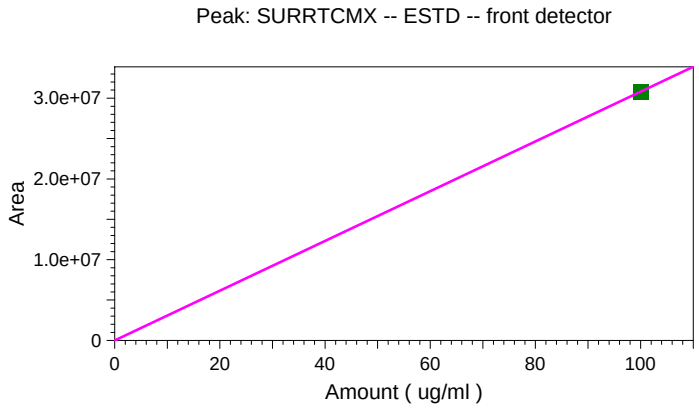
	Level 1
Amount	100
Area	12694214
RF	126942.14
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12694214
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\014.dat
Rep 1 Sample ID	PCB 1254 CF PP 3751
Rep 1 Calib. Time	May 09,2013 08:02:30

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:07
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (front detector)
Average RF: 308088.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 308088.



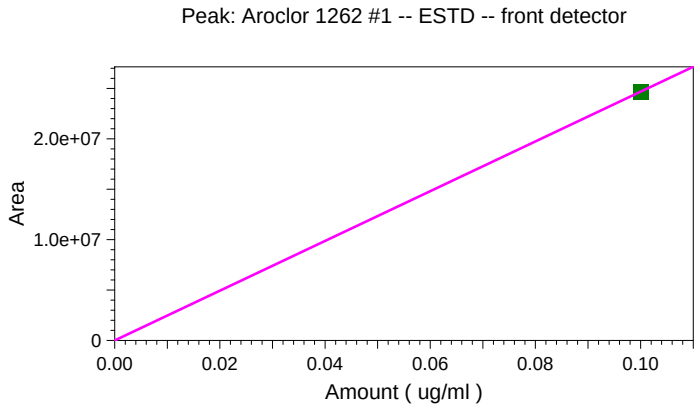
	Level 1
Amount	100
Area	30808797
RF	308087.97
Last Area	
Residual	-1.42109e-014
Rep StDev	
Rep %RSD	
Rep 1 Area	30808797
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:10
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #1 (front detector)
Average RF: 2.46833e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.46833e+008



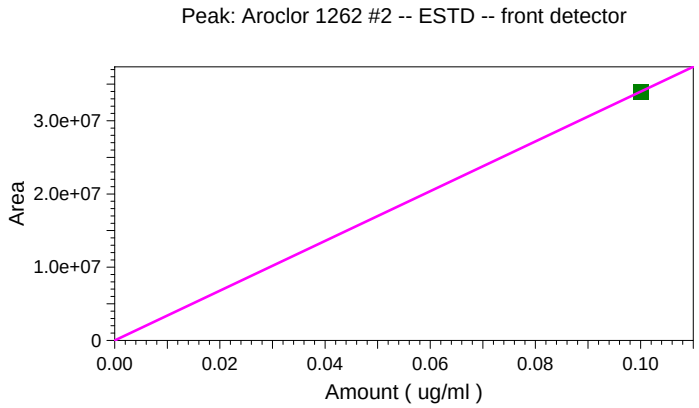
	Level 1
Amount	0.1
Area	24683257
RF	246832570
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	24683257
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:11
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #2 (front detector)
Average RF: 3.39714e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.39714e+008



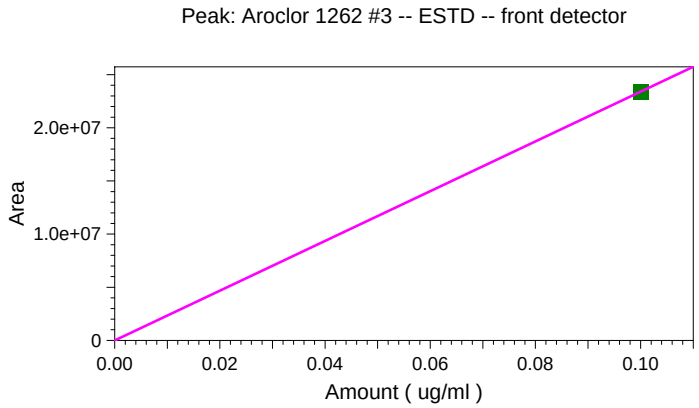
	Level 1
Amount	0.1
Area	33971380
RF	339713800
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	33971380
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:12
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #3 (front detector)
Average RF: 2.34007e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.34007e+008



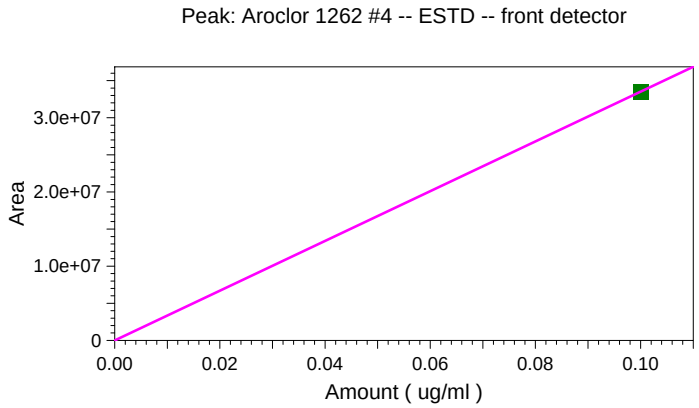
	Level 1
Amount	0.1
Area	23400695
RF	234006950
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	23400695
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:14
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #4 (front detector)
Average RF: 3.35147e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.35147e+008



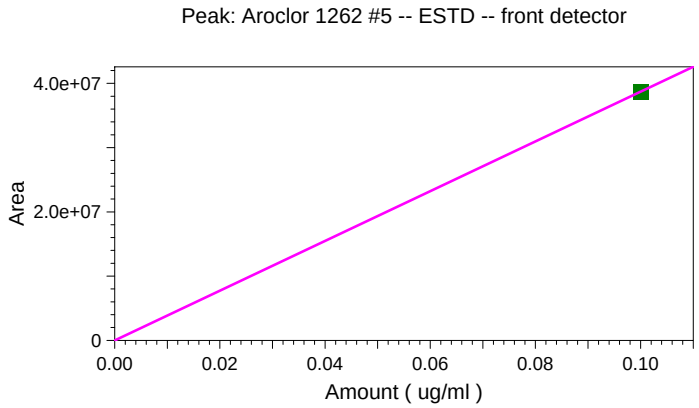
	Level 1
Amount	0.1
Area	33514650
RF	335146500
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	33514650
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:15
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #5 (front detector)
Average RF: 3.87110e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.87110e+008



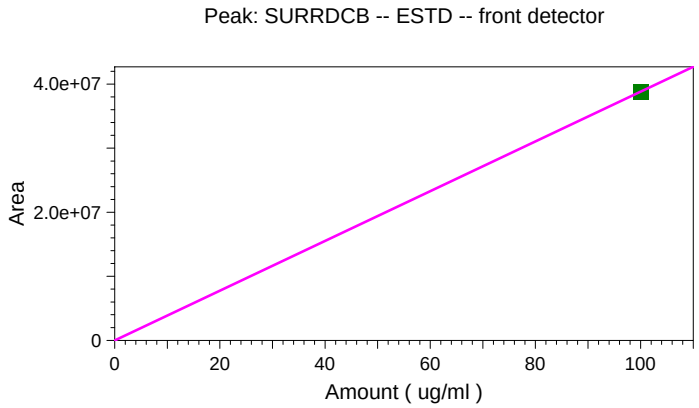
	Level 1
Amount	0.1
Area	38711030
RF	387110300
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	38711030
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:16
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (front detector)
Average RF: 388179.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 388179.



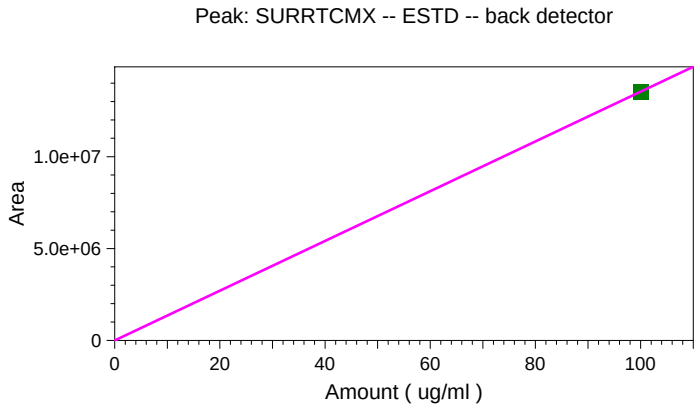
	Level 1
Amount	100
Area	38817876
RF	388178.76
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	38817876
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:22
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (back detector)
Average RF: 135376.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 135376.



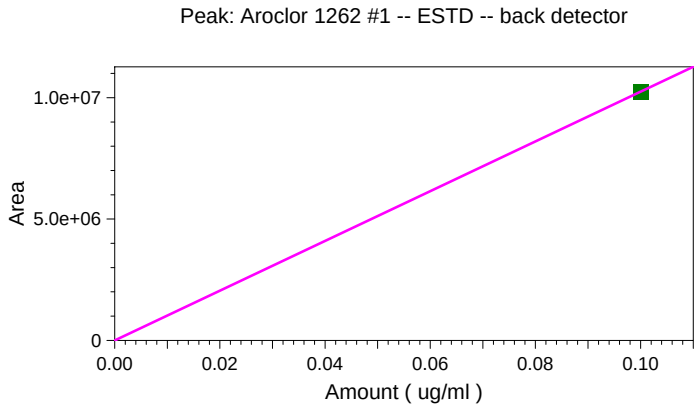
	Level 1
Amount	100
Area	13537639
RF	135376.39
Last Area	
Residual	1.42109e-014
Rep StDev	
Rep %RSD	
Rep 1 Area	13537639
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:24
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #1 (back detector)
Average RF: 1.02489e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.02489e+008



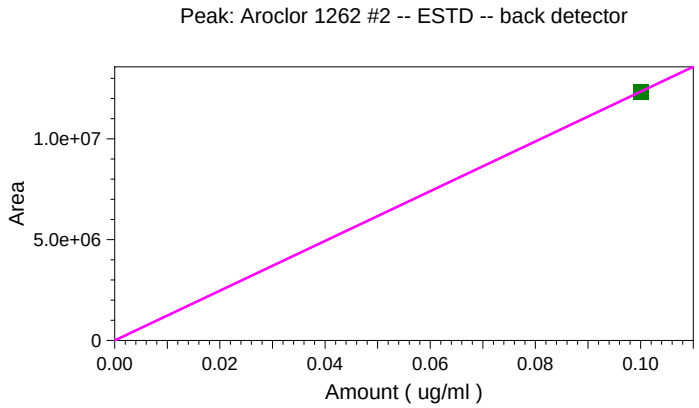
	Level 1
Amount	0.1
Area	10248922
RF	102489220
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10248922
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:25
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #2 (back detector)
Average RF: 1.23382e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.23382e+008



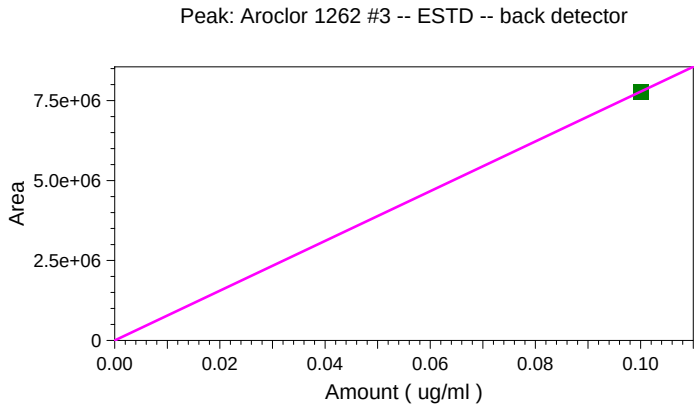
	Level 1
Amount	0.1
Area	12338170
RF	123381700
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12338170
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:27
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #3 (back detector)
Average RF: 7.78042e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.78042e+007



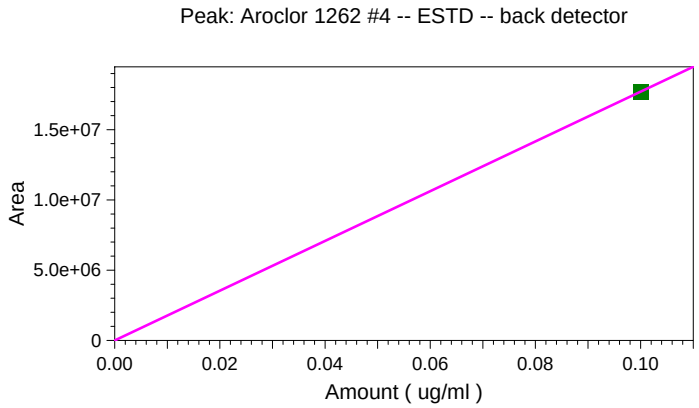
	Level 1
Amount	0.1
Area	7780416
RF	77804160
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	7780416
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:28
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #4 (back detector)
Average RF: 1.77062e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.77062e+008



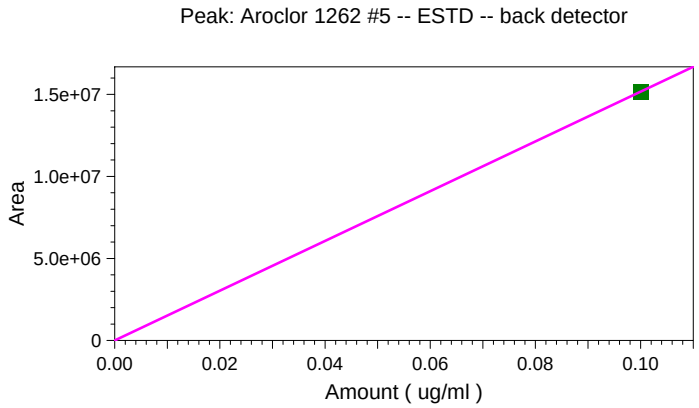
	Level 1
Amount	0.1
Area	17706184
RF	177061840
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	17706184
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:29
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1262 #5 (back detector)
Average RF: 1.51688e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.51688e+008



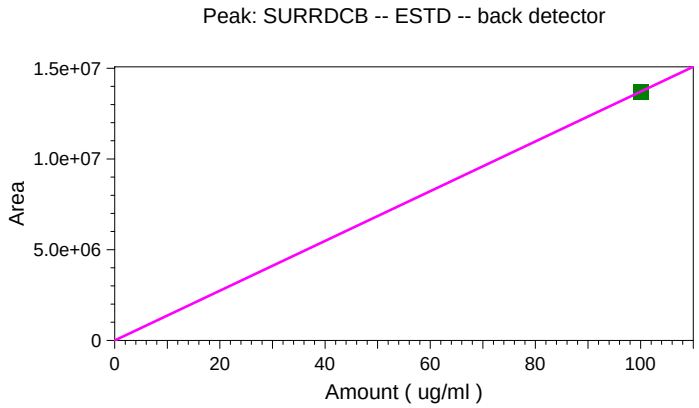
	Level 1
Amount	0.1
Area	15168819
RF	151688190
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	15168819
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
Print Time: May 07,2013 12:58:30
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (back detector)
Average RF: 137096.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 137096.



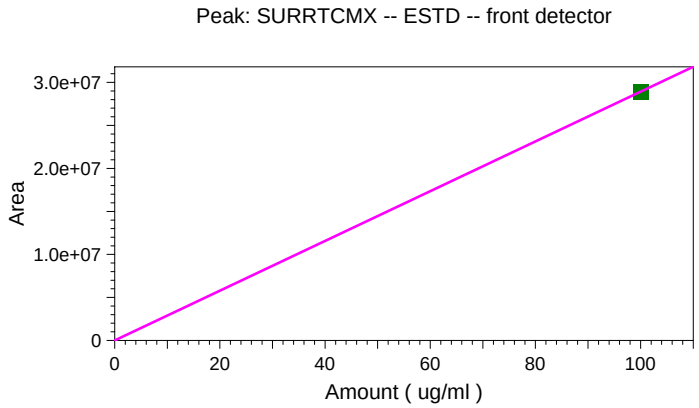
	Level 1
Amount	100
Area	13709602
RF	137096.02
Last Area	
Residual	-1.42109e-014
Rep StDev	
Rep %RSD	
Rep 1 Area	13709602
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\015.dat
Rep 1 Sample ID	PCB 1262 CF PP 3813
Rep 1 Calib. Time	May 07,2013 12:57:28

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:17:52
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (front detector)
Average RF: 289236.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 289236.



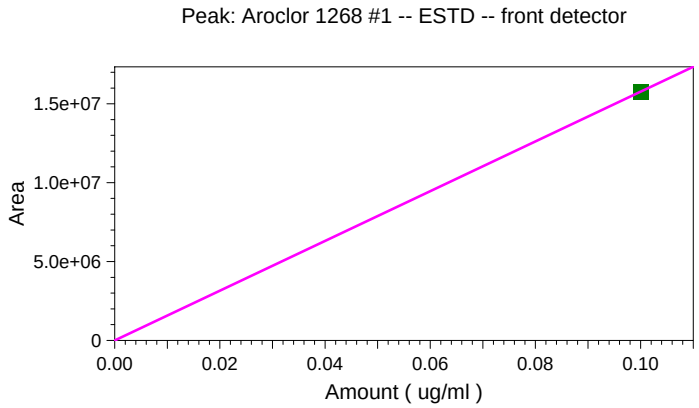
	Level 1
Amount	100
Area	28923643
RF	289236.43
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	28923643
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:17:55
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #1 (front detector)
Average RF: 1.57708e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.57708e+008



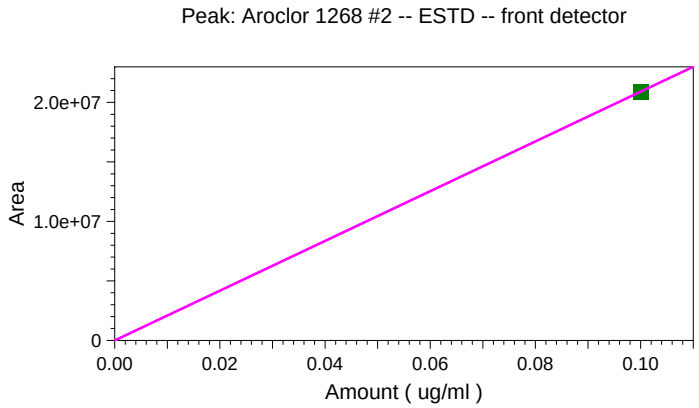
	Level 1
Amount	0.1
Area	15770772
RF	157707720
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	15770772
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:17:57
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #2 (front detector)
Average RF: 2.09045e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.09045e+008



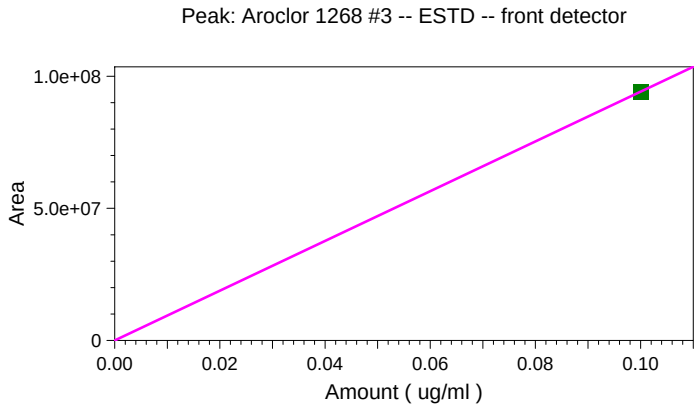
	Level 1
Amount	0.1
Area	20904490
RF	209044900
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20904490
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:17:58
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #3 (front detector)
Average RF: 9.41762e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.41762e+008



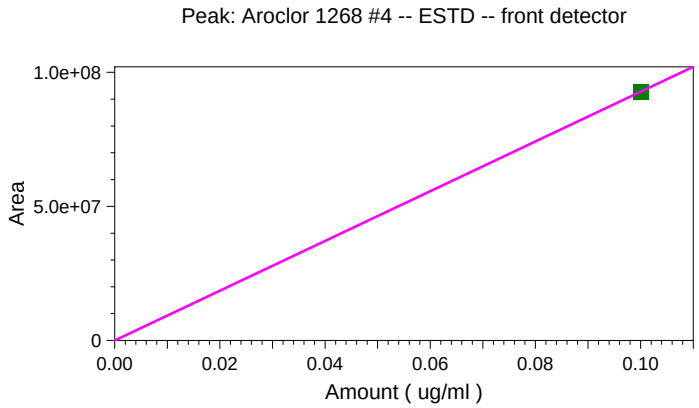
	Level 1
Amount	0.1
Area	94176150
RF	941761500
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	94176150
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:17:59
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #4 (front detector)
Average RF: 9.28045e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.28045e+008



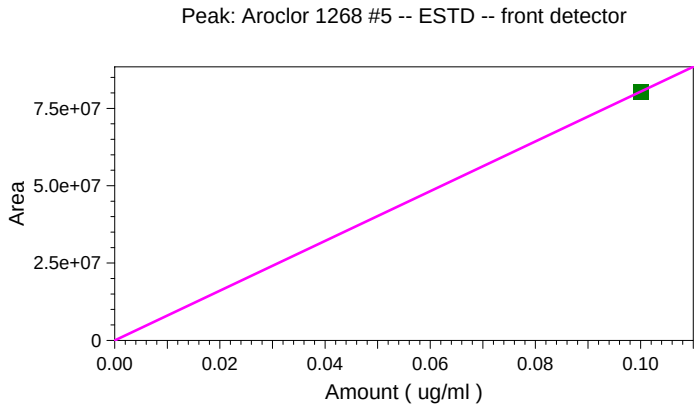
	Level 1
Amount	0.1
Area	92804476
RF	928044760
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	92804476
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:01
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #5 (front detector)
Average RF: 8.04033e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.04033e+008



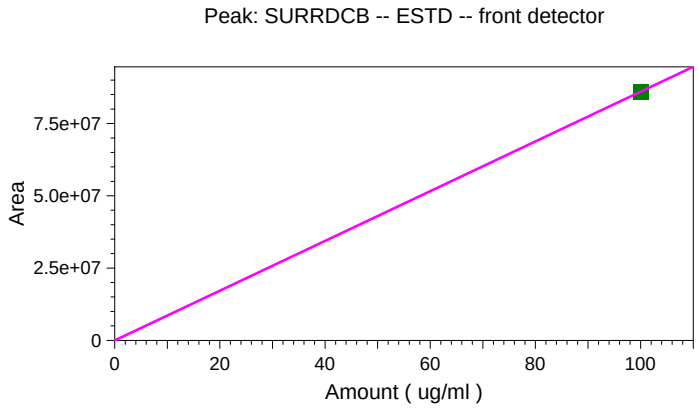
	Level 1
Amount	0.1
Area	80403301
RF	804033010
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	80403301
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:02
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (front detector)
Average RF: 859924.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 859924.



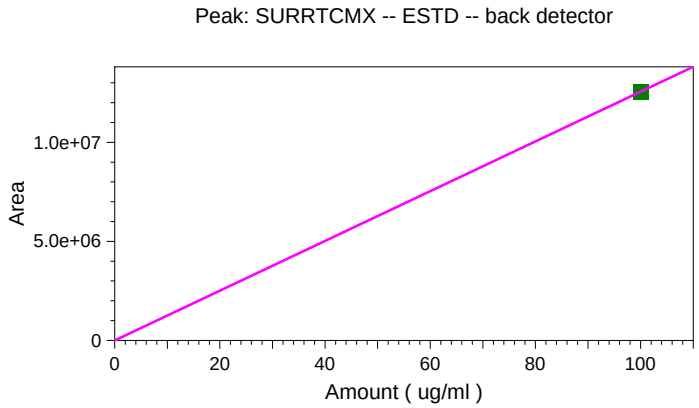
	Level 1
Amount	100
Area	85992437
RF	859924.37
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	85992437
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:08
User: JJY
Instrument: Semi 7 (Offline)

SURRTCMX (back detector)
Average RF: 125565.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 125565.



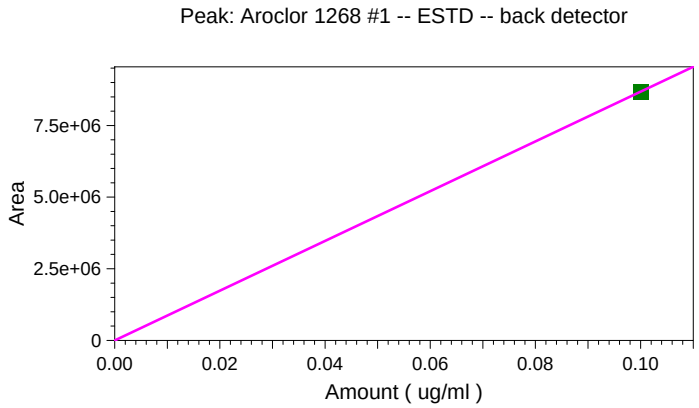
	Level 1
Amount	100
Area	12556511
RF	125565.11
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12556511
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:11
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #1 (back detector)
Average RF: 8.68181e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.68181e+007



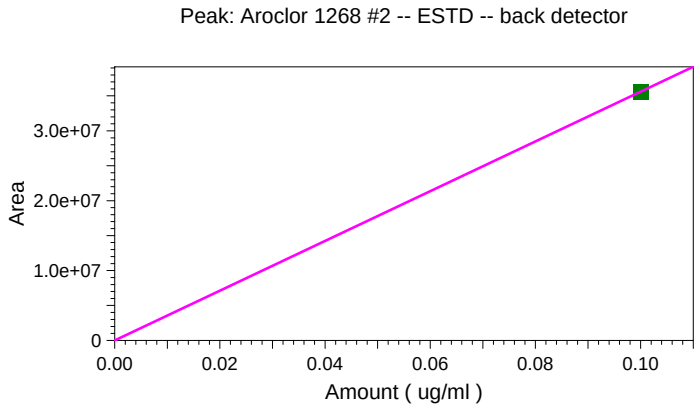
	Level 1
Amount	0.1
Area	8681809
RF	86818090
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	8681809
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:13
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #2 (back detector)
Average RF: 3.56039e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.56039e+008



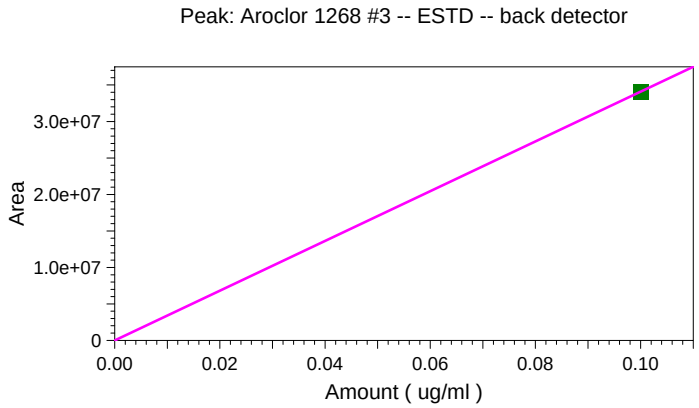
	Level 1
Amount	0.1
Area	35603933
RF	356039330
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	35603933
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:14
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #3 (back detector)
Average RF: 3.40871e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.40871e+008



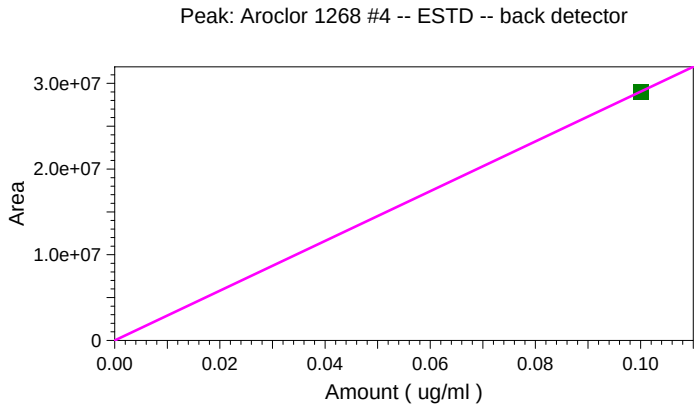
	Level 1
Amount	0.1
Area	34087057
RF	340870570
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	34087057
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:15
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #4 (back detector)
Average RF: 2.90301e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.90301e+008



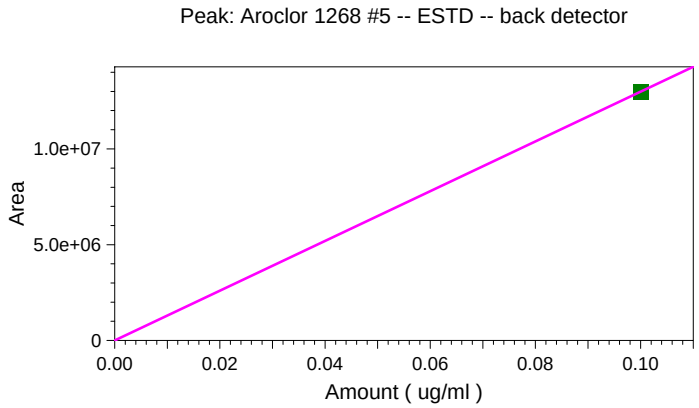
	Level 1
Amount	0.1
Area	29030051
RF	290300510
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	29030051
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:16
User: JJY
Instrument: Semi 7 (Offline)

Aroclor 1268 #5 (back detector)
Average RF: 1.29904e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.29904e+008



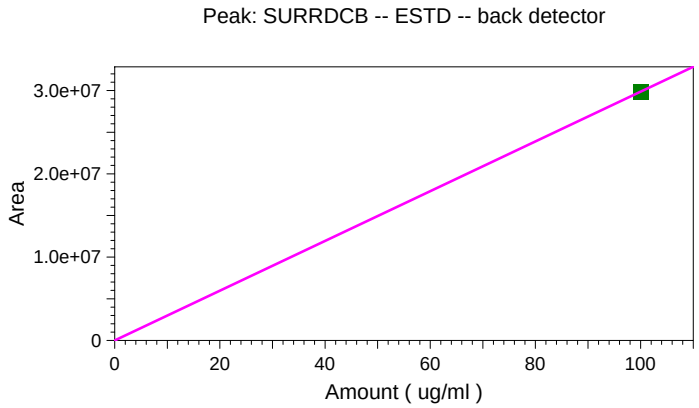
	Level 1
Amount	0.1
Area	12990421
RF	129904210
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	12990421
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

Calibration Report

Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
Print Time: May 07,2013 13:18:18
User: JJY
Instrument: Semi 7 (Offline)

SURRDCB (back detector)
Average RF: 298636.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 298636.

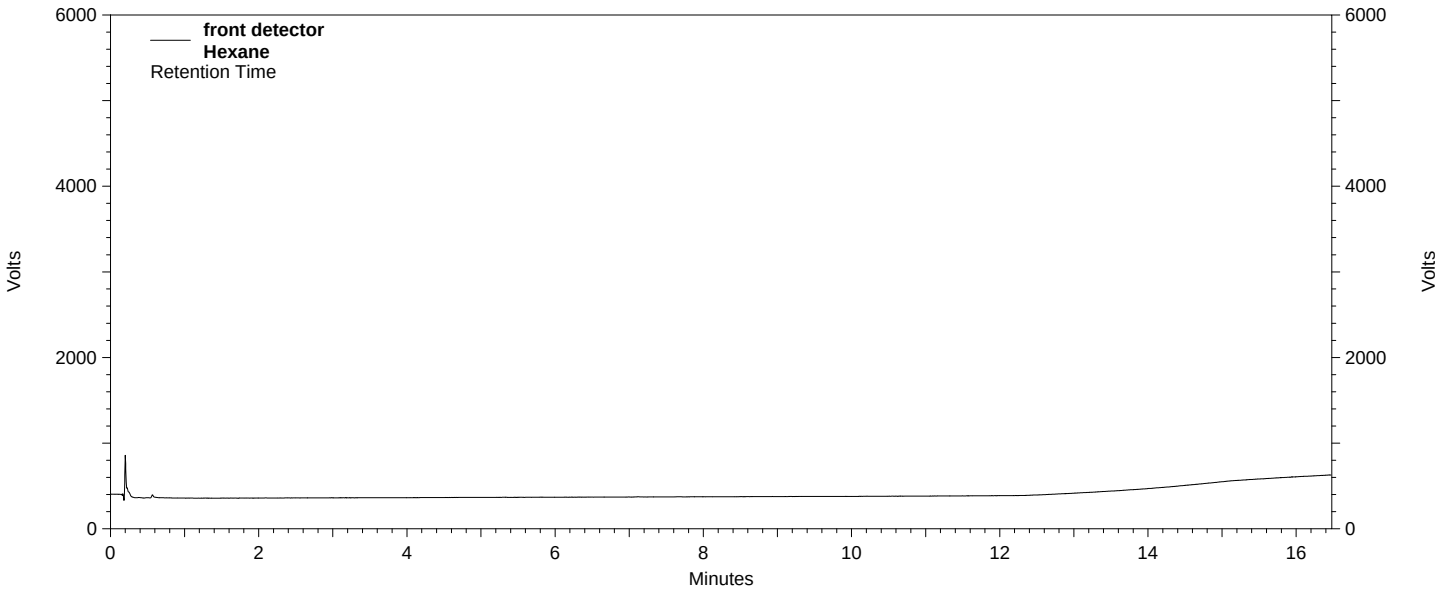


	Level 1
Amount	100
Area	29863576
RF	298635.76
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	29863576
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi7\Data\050713pcbic\016.dat
Rep 1 Sample ID	PCB 1268 CF PP 3762
Rep 1 Calib. Time	May 07,2013 13:17:17

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\009.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: Hexane
Acquired: May 07,2013 10:40:57
Printed: May 07,2013 11:18:33

Data Summary: {Data Description}



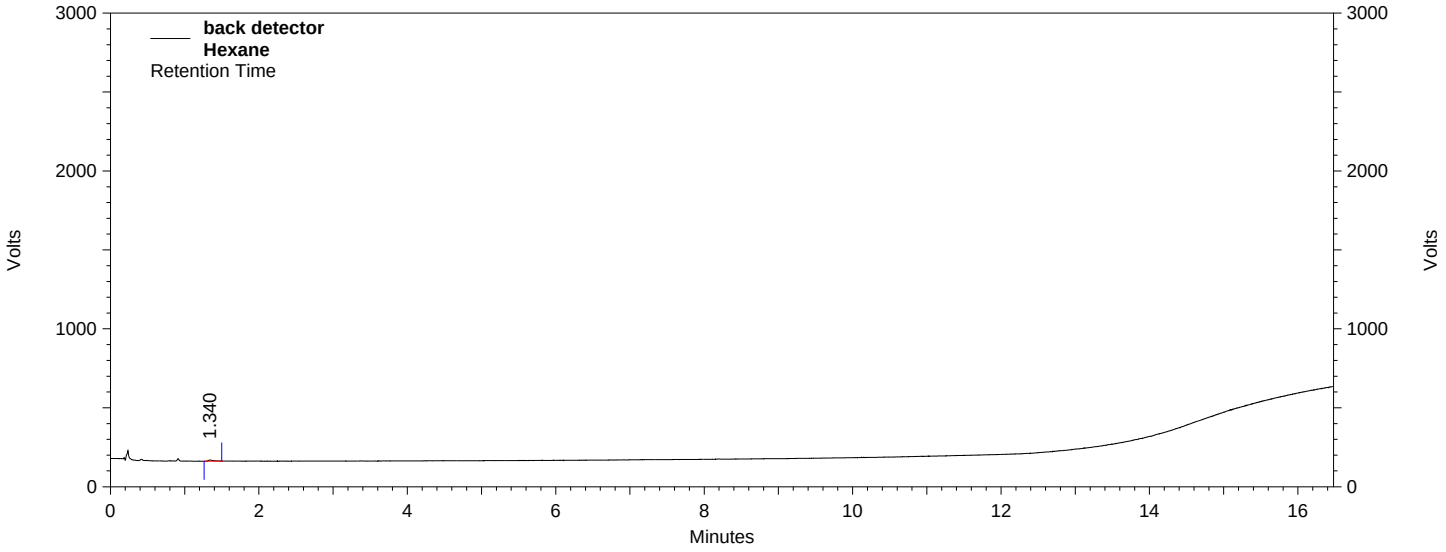
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB			0.000 BDL
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB			0.000 BDL
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\009.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: Hexane
Acquired: May 07,2013 10:40:57
Printed: May 07,2013 11:18:33

Data Summary: {Data Description}



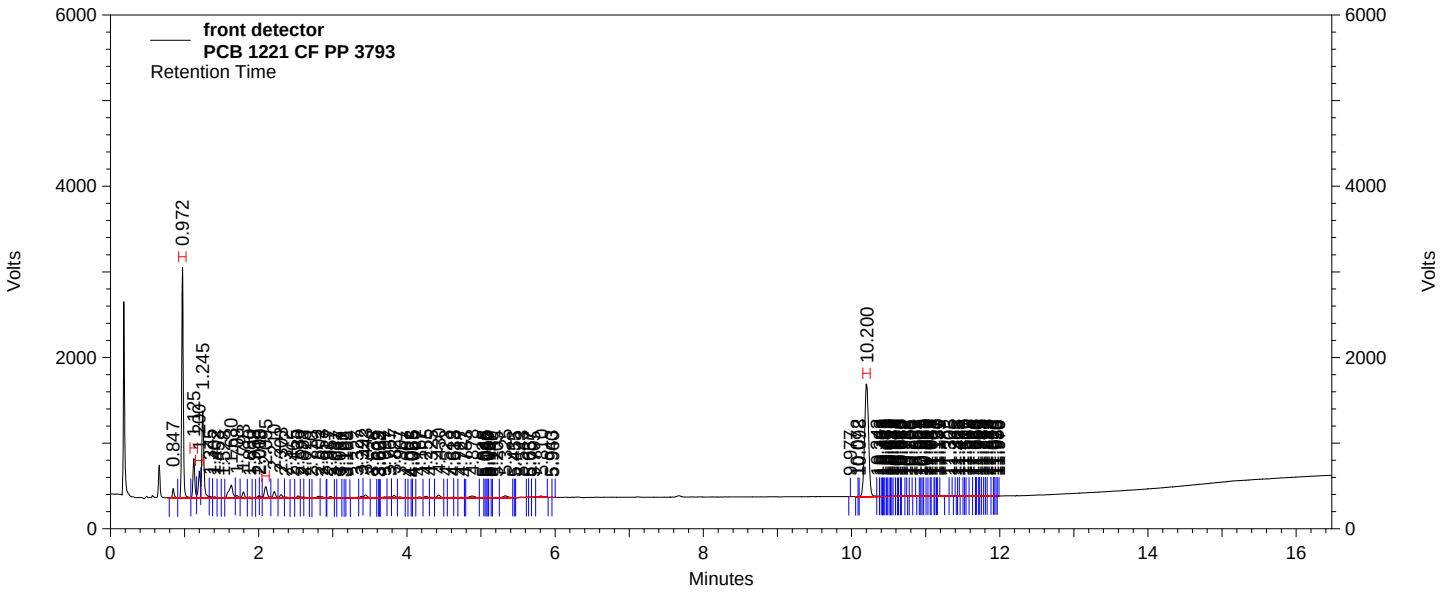
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB			0.000 BDL
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB			0.000 BDL
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\010.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
User: JJY
Sample ID: PCB 1221 CF PP 3793
Acquired: May 07,2013 11:00:39
Printed: May 07,2013 11:19:57

Data Summary: {Data Description}



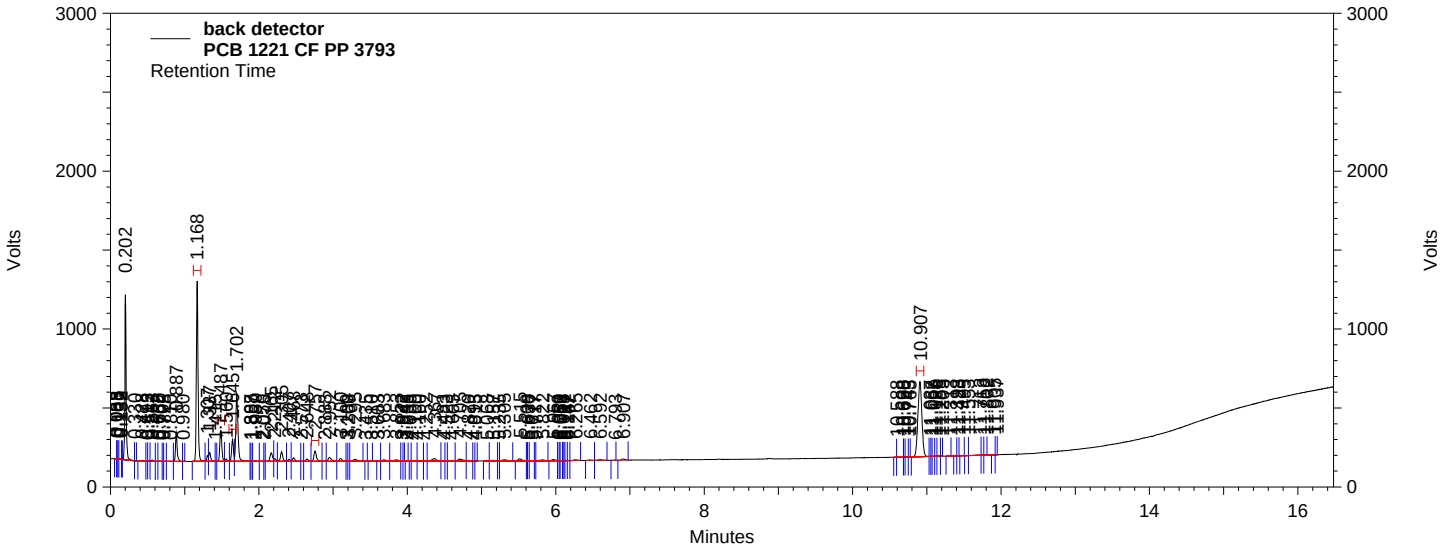
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.972	31478582	100.000 CAL
Aroclor 1221 #1	1.125	6036700	0.167 CAL
Aroclor 1221 #2	1.200	4274362	0.167 CAL
Aroclor 1221 #3	2.095	2817432	0.167 CAL
SURRDCB	10.200	38134229	100.000 CAL
Aroclor 1221		13128494	0.501 CAL

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\010.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
User: JJY
Sample ID: PCB 1221 CF PP 3793
Acquired: May 07,2013 11:00:39
Printed: May 07,2013 11:19:57

Data Summary: {Data Description}



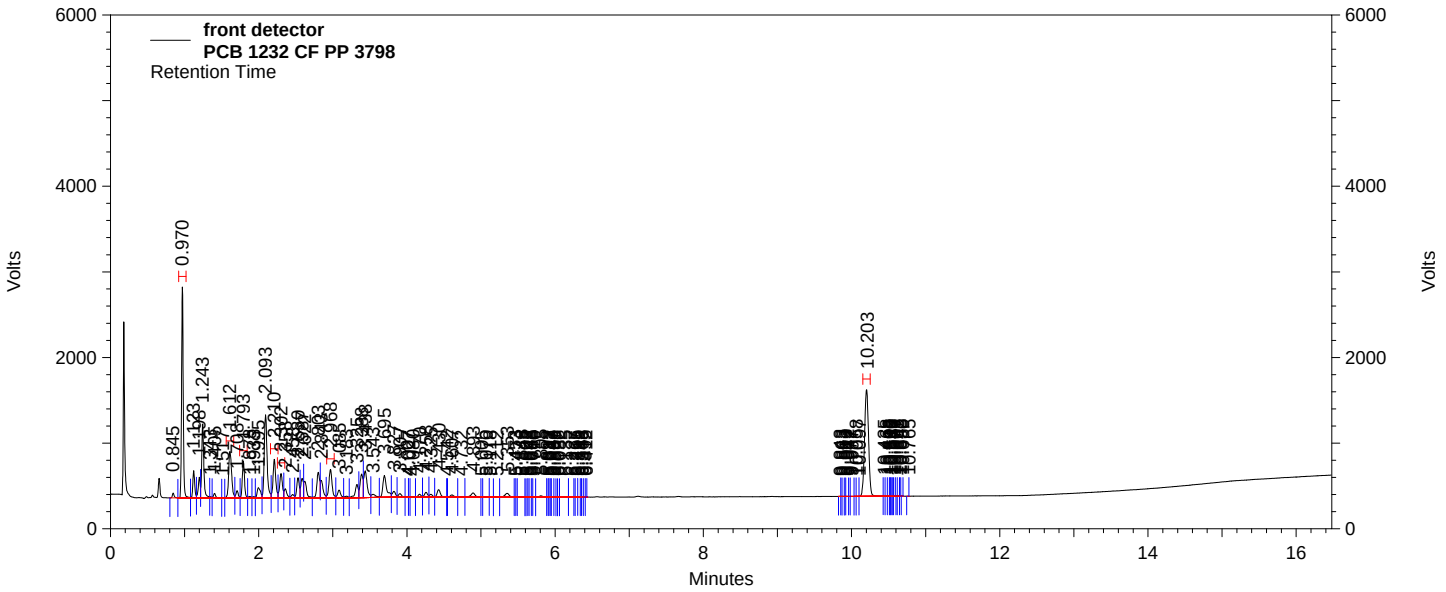
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.168	13509458	100.000 CAL
Aroclor 1221 #1	1.487	2806626	0.167 CAL
Aroclor 1221 #2	1.645	1821955	0.167 CAL
Aroclor 1221 #3	2.757	1206496	0.167 CAL
SURRDCB	10.907	13552646	100.000 CAL
Aroclor 1221		5835077	0.501 CAL

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\011.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
User: JJY
Sample ID: PCB 1232 CF PP 3798
Acquired: May 07,2013 11:20:21
Printed: May 07,2013 11:39:15

Data Summary: {Data Description}



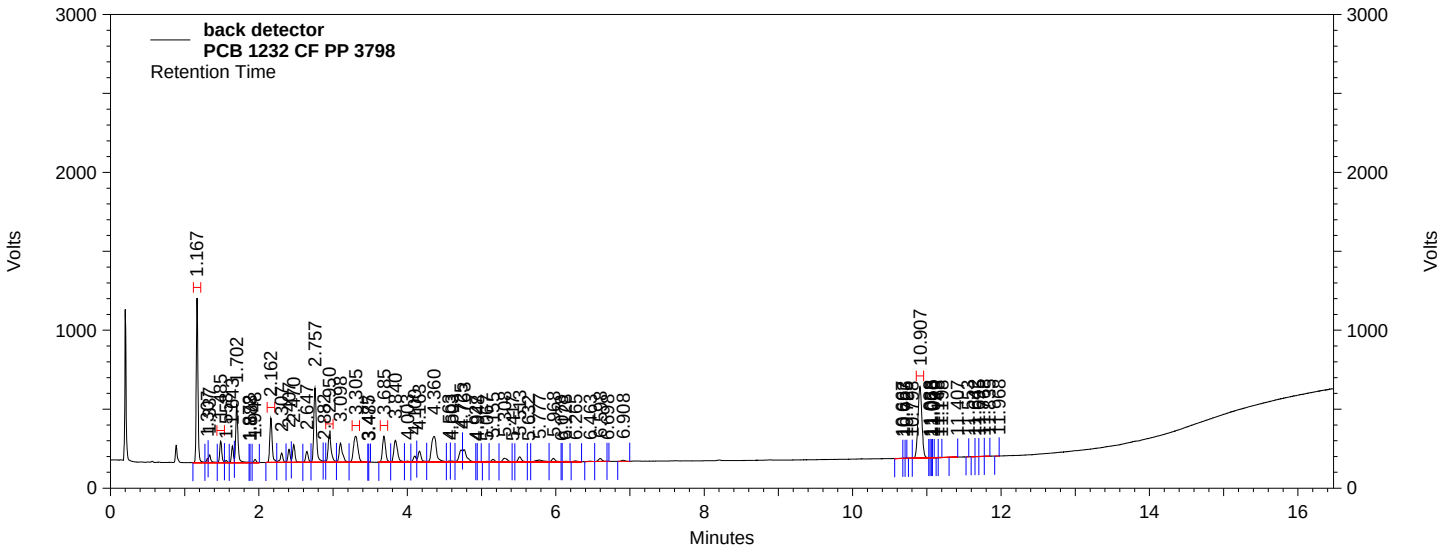
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	29680700	100.000 CAL
Aroclor 1232 #1	1.612	11627754	0.100 CAL
Aroclor 1232 #2	1.793	6688743	0.100 CAL
Aroclor 1232 #3	2.210	8654942	0.100 CAL
Aroclor 1232 #4	2.302	5643586	0.100 CAL
Aroclor 1232 #5	2.968	7409460	0.100 CAL
SURRDCB	10.203	36462018	100.000 CAL
Aroclor 1232		40024485	0.500 CAL

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\011.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
User: JJY
Sample ID: PCB 1232 CF PP 3798
Acquired: May 07,2013 11:20:21
Printed: May 07,2013 11:39:15

Data Summary: {Data Description}



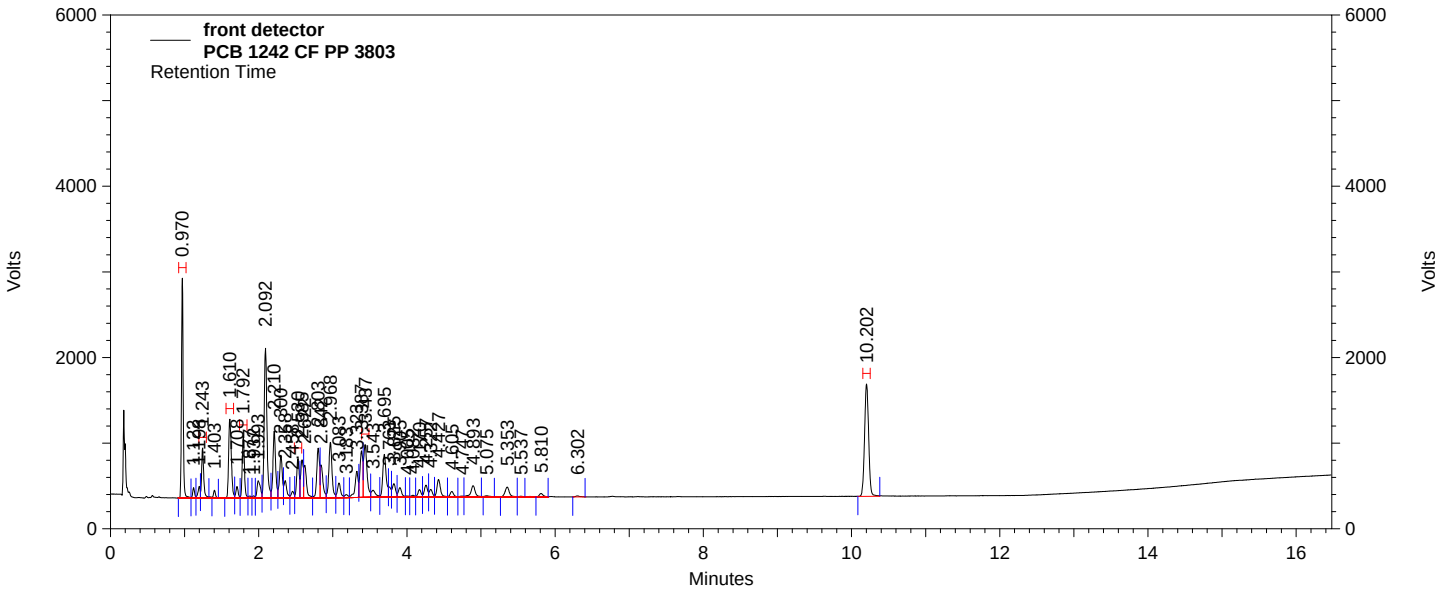
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	12692412	100.000 CAL
Aroclor 1232 #1	1.485	1997272	0.100 CAL
Aroclor 1232 #2	2.162	4775829	0.100 CAL
Aroclor 1232 #3	2.950	3950799	0.100 CAL
Aroclor 1232 #4	3.305	5375256	0.100 CAL
Aroclor 1232 #5	3.685	3708884	0.100 CAL
SURRDCB	10.907	12888656	100.000 CAL
Aroclor 1232		19808040	0.500 CAL

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\012.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
User: JJY
Sample ID: PCB 1242 CF PP 3803
Acquired: May 07,2013 11:40:01
Printed: May 07,2013 12:41:14

Data Summary: {Data Description}



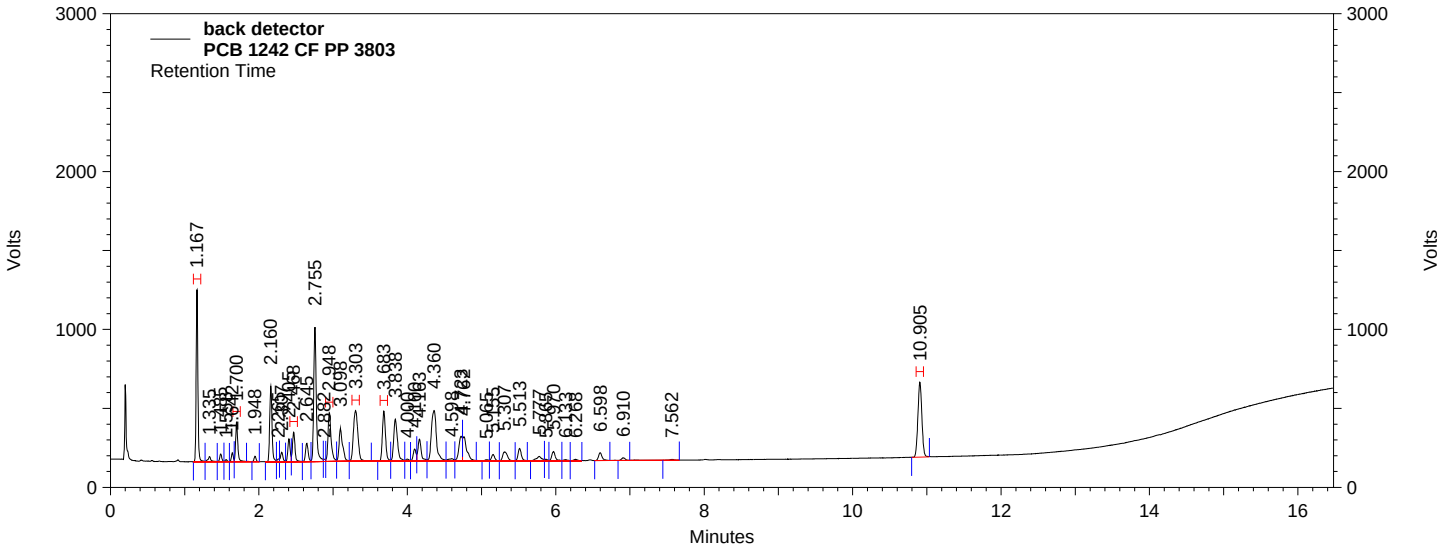
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	31269626	100.000 CAL
Aroclor 1242 #1	1.243	8735157	0.100 CAL
Aroclor 1242 #2	1.610	18062287	0.100 CAL
Aroclor 1242 #3	1.792	11475366	0.100 CAL
Aroclor 1242 #4	2.530	8291403	0.100 CAL
Aroclor 1242 #5	3.437	14909847	0.100 CAL
SURRDCB	10.202	38617870	100.000 CAL
Aroclor 1242		61474060	0.500 CAL

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\012.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
User: JJY
Sample ID: PCB 1242 CF PP 3803
Acquired: May 07,2013 11:40:01
Printed: May 07,2013 12:41:14

Data Summary: {Data Description}



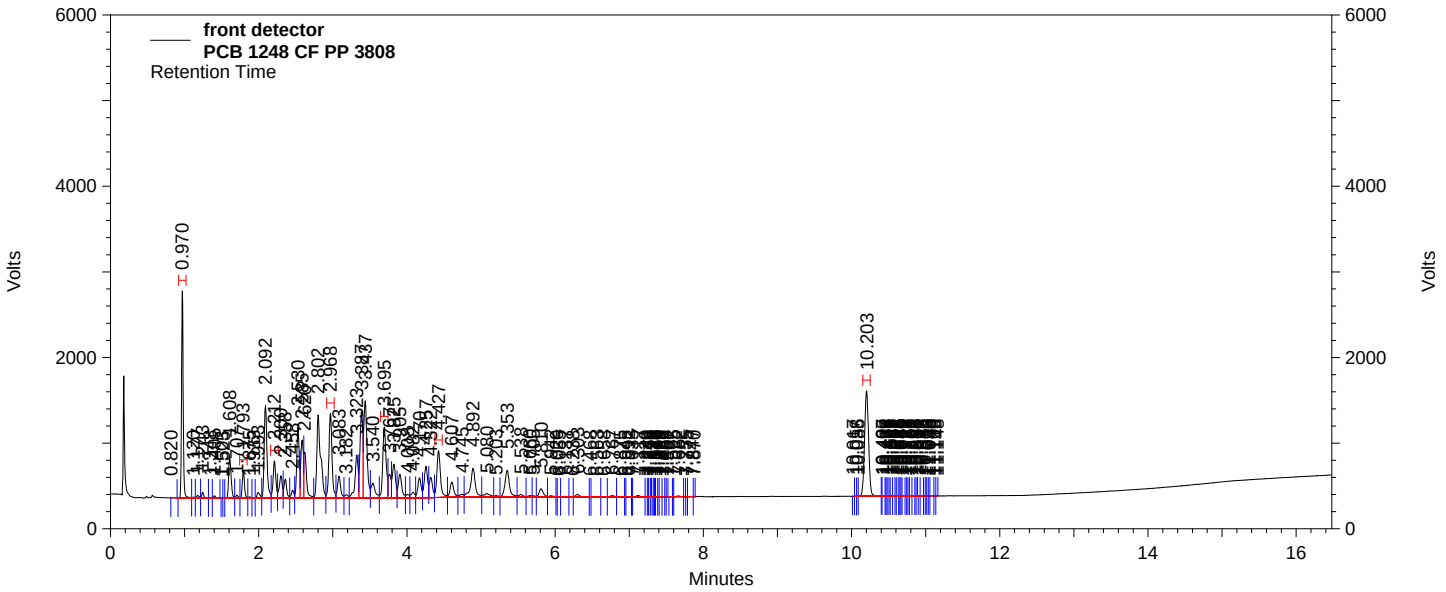
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	13387928	100.000 CAL
Aroclor 1242 #1	1.700	3951691	0.100 CAL
Aroclor 1242 #2	2.468	3308651	0.100 CAL
Aroclor 1242 #3	2.948	6895303	0.100 CAL
Aroclor 1242 #4	3.303	10539263	0.100 CAL
Aroclor 1242 #5	3.683	7183010	0.100 CAL
SURRDCB	10.905	13667159	100.000 CAL
Aroclor 1242		31877918	0.500 CAL

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\013.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
User: JJY
Sample ID: PCB 1248 CF PP 3808
Acquired: May 07,2013 11:59:40
Printed: May 07,2013 12:41:18

Data Summary: {Data Description}



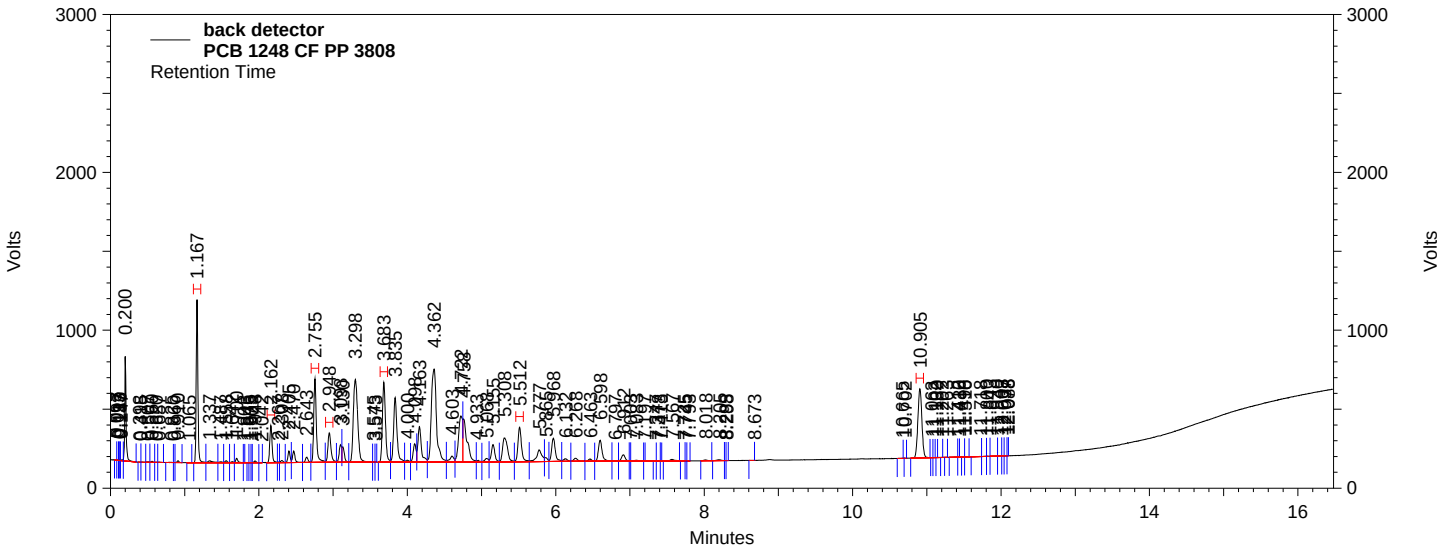
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	28568056	100.000 CAL
Aroclor 1248 #1	1.793	5025539	0.100 CAL
Aroclor 1248 #2	2.212	8478928	0.100 CAL
Aroclor 1248 #3	2.968	21978383	0.100 CAL
Aroclor 1248 #4	3.695	19682711	0.100 CAL
Aroclor 1248 #5	4.427	14231454	0.100 CAL
SURRDCB	10.203	35901885	100.000 CAL
Aroclor 1248		69397015	0.500 CAL

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\013.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
User: JJY
Sample ID: PCB 1248 CF PP 3808
Acquired: May 07,2013 11:59:40
Printed: May 07,2013 12:41:18

Data Summary: {Data Description}



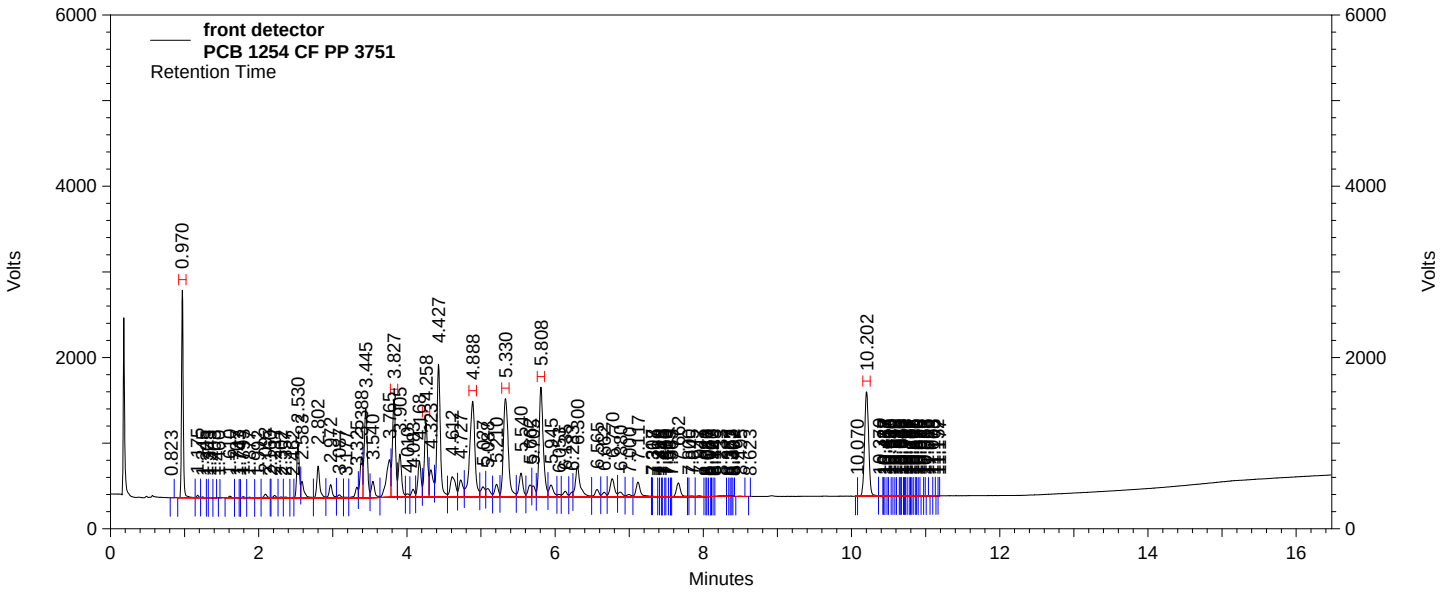
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	12422941	100.000 CAL
Aroclor 1248 #1	2.162	3840180	0.100 CAL
Aroclor 1248 #2	2.755	10036079	0.100 CAL
Aroclor 1248 #3	2.948	4122551	0.100 CAL
Aroclor 1248 #4	3.683	11201634	0.100 CAL
Aroclor 1248 #5	5.512	5580444	0.100 CAL
SURRDCB	10.905	12711271	100.000 CAL
Aroclor 1248		34780888	0.500 CAL

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\014.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
User: JJY
Sample ID: PCB 1254 CF PP 3751
Acquired: May 07,2013 12:19:21
Printed: May 09,2013 08:03:14

Data Summary: {Data Description}



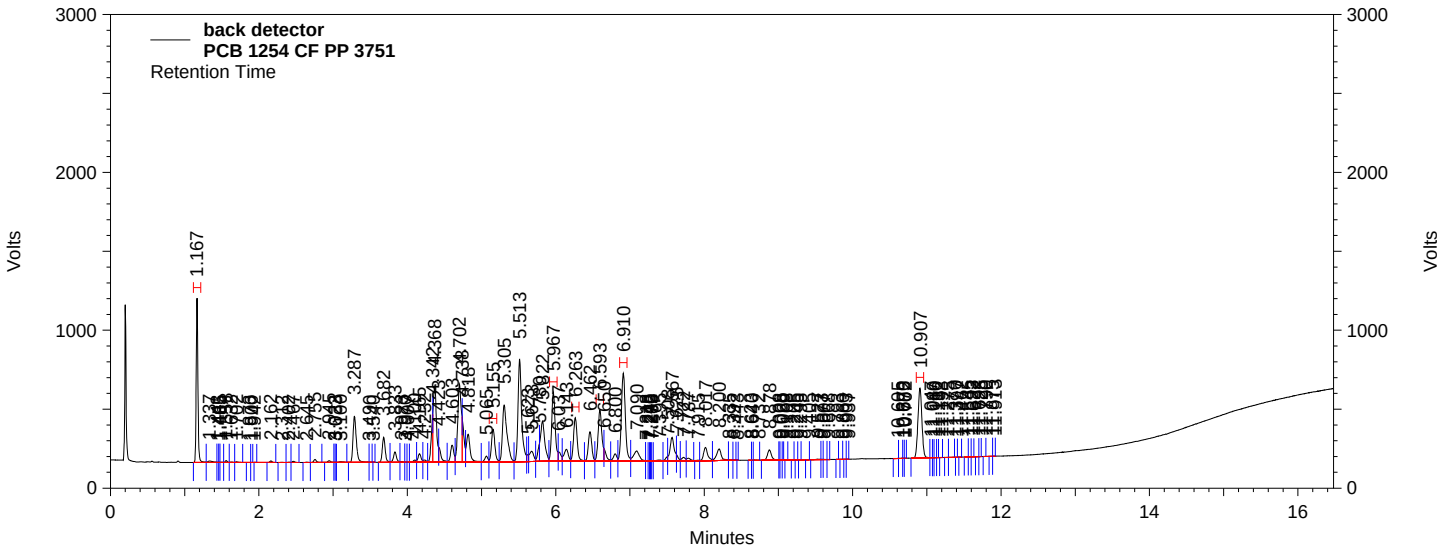
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	29413395	100.000 CAL
Aroclor 1254 #1	3.827	25770935	0.100 CAL
Aroclor 1254 #2	4.258	20805971	0.100 CAL
Aroclor 1254 #3	4.888	41642766	0.100 CAL
Aroclor 1254 #4	5.330	40766059	0.100 CAL
Aroclor 1254 #5	5.808	38014198	0.100 CAL
SURRDCB	10.202	35906181	100.000 CAL
Aroclor 1254		166999929	0.500 CAL

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\014.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
User: JJY
Sample ID: PCB 1254 CF PP 3751
Acquired: May 07,2013 12:19:21
Printed: May 09,2013 08:03:14

Data Summary: {Data Description}



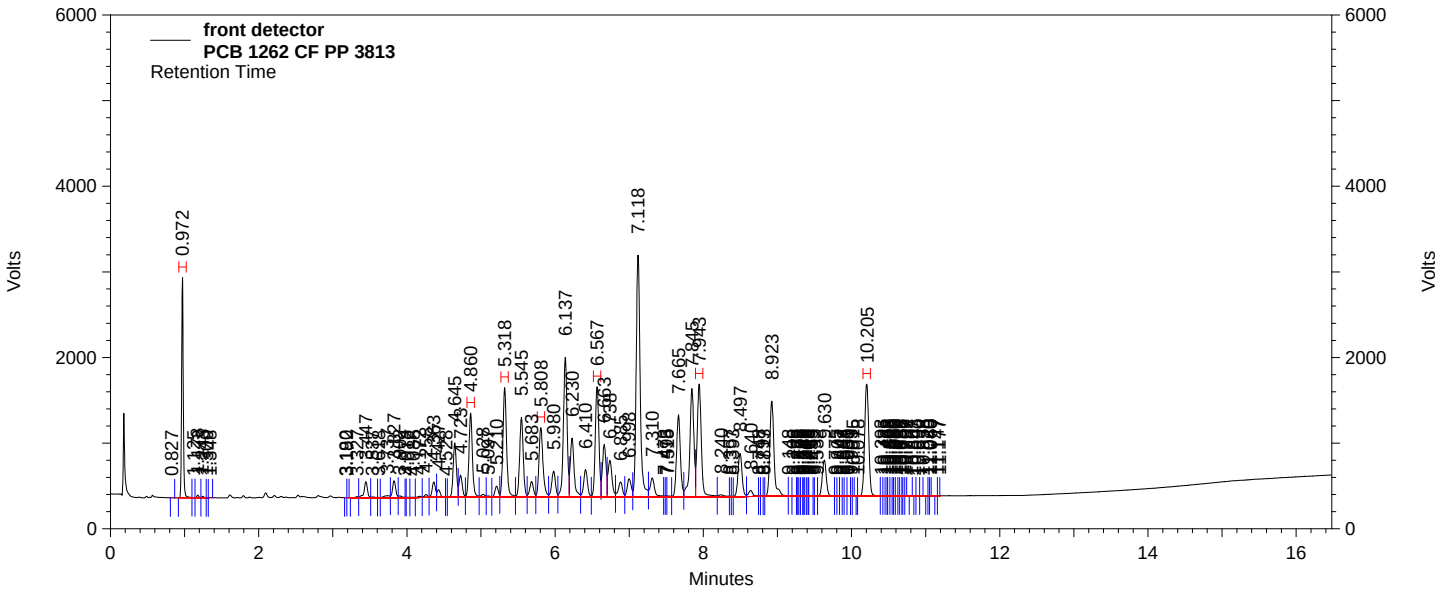
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	12744212	100.000 CAL
Aroclor 1254 #1	5.155	5080876	0.100 CAL
Aroclor 1254 #2	5.967	11196071	0.100 CAL
Aroclor 1254 #3	6.263	7283009	0.100 CAL
Aroclor 1254 #4	6.593	8807286	0.100 CAL
Aroclor 1254 #5	6.910	15798816	0.100 CAL
SURRDCB	10.907	12694214	100.000 CAL
Aroclor 1254		48166058	0.500 CAL

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\015.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
User: JJY
Sample ID: PCB 1262 CF PP 3813
Acquired: May 07,2013 12:39:05
Printed: May 07,2013 12:57:45

Data Summary: {Data Description}



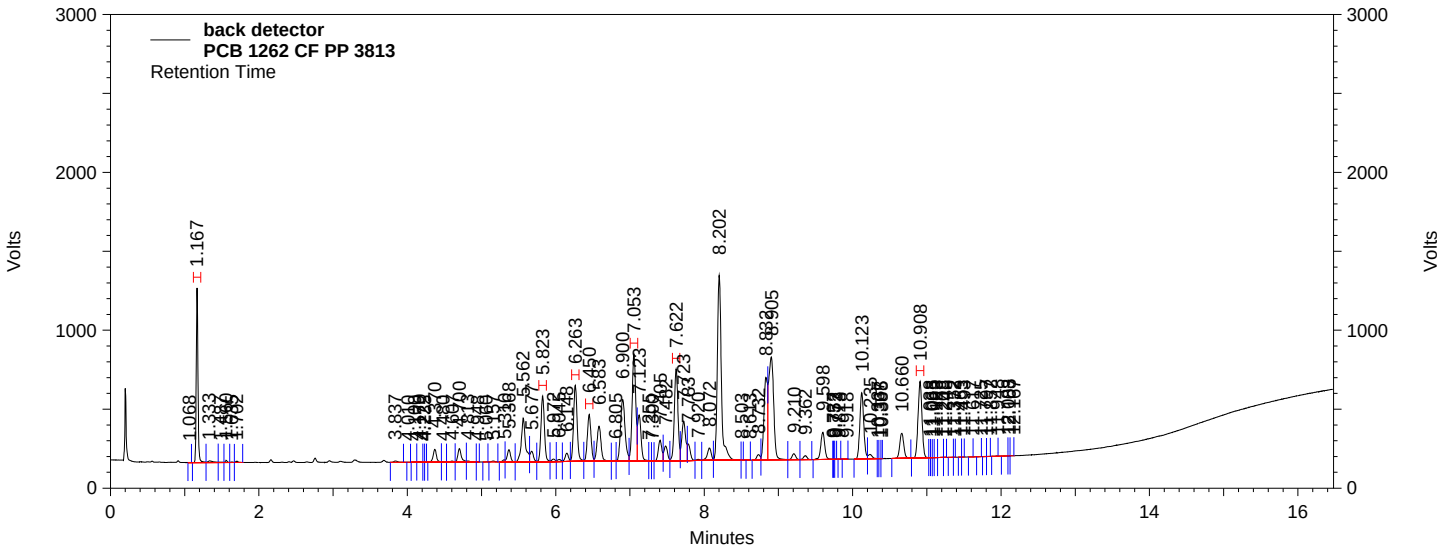
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.972	30808797	100.000 CAL
Aroclor 1262 #1	4.860	24683257	0.100 CAL
Aroclor 1262 #2	5.318	33971380	0.100 CAL
Aroclor 1262 #3	5.808	23400695	0.100 CAL
Aroclor 1262 #4	6.567	33514650	0.100 CAL
Aroclor 1262 #5	7.943	38711030	0.100 CAL
SURRDCB	10.205	38817876	100.000 CAL
Aroclor 1262		154281012	0.500 CAL

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\015.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
User: JJY
Sample ID: PCB 1262 CF PP 3813
Acquired: May 07,2013 12:39:05
Printed: May 07,2013 12:57:45

Data Summary: {Data Description}



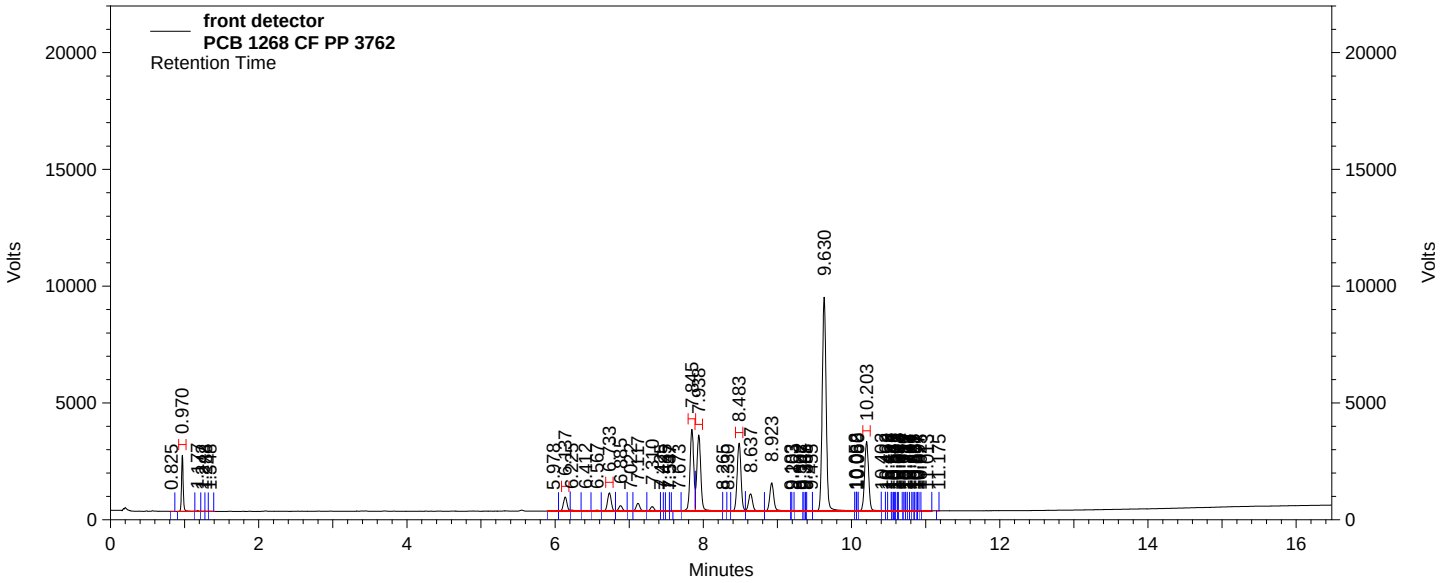
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	13537639	100.000 CAL
Aroclor 1262 #1	5.823	10248922	0.100 CAL
Aroclor 1262 #2	6.263	12338170	0.100 CAL
Aroclor 1262 #3	6.450	7780416	0.100 CAL
Aroclor 1262 #4	7.053	17706184	0.100 CAL
Aroclor 1262 #5	7.622	15168819	0.100 CAL
SURRDCB	10.908	13709602	100.000 CAL
Aroclor 1262		63242511	0.500 CAL

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\016.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
User: JJY
Sample ID: PCB 1268 CF PP 3762
Acquired: May 07,2013 12:58:41
Printed: May 07,2013 13:17:32

Data Summary: {Data Description}



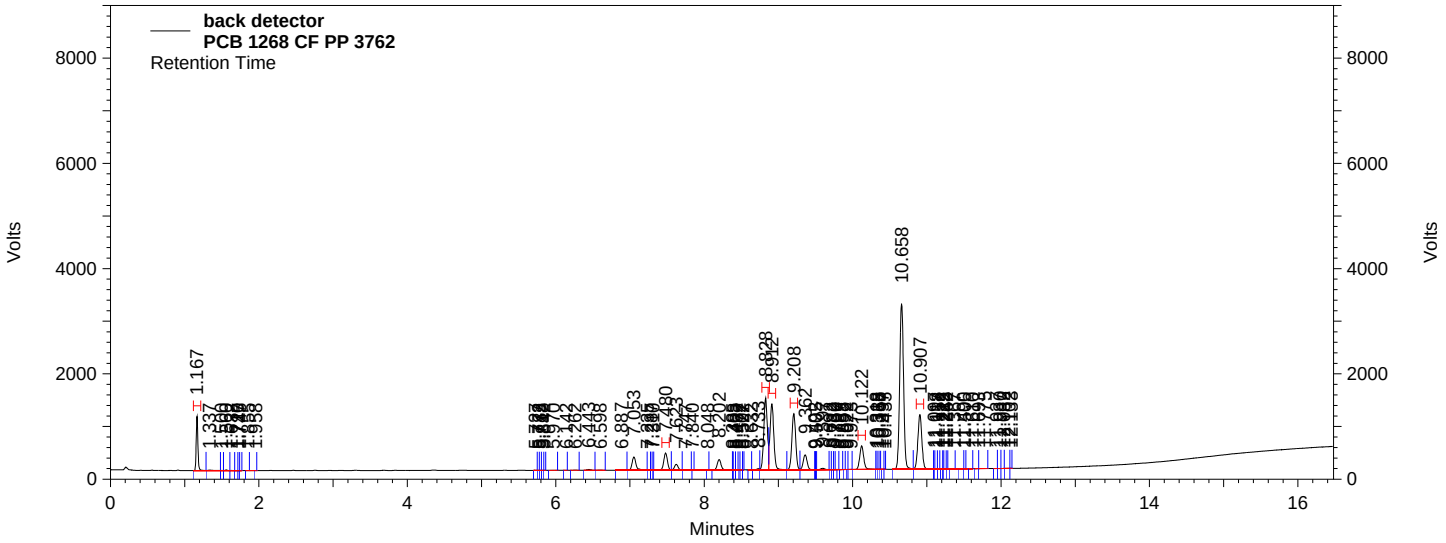
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	28923643	100.000 CAL
Aroclor 1268 #1	6.137	15770772	0.100 CAL
Aroclor 1268 #2	6.733	20904490	0.100 CAL
Aroclor 1268 #3	7.845	94176150	0.100 CAL
Aroclor 1268 #4	7.938	92804476	0.100 CAL
Aroclor 1268 #5	8.483	80403301	0.100 CAL
SURRDCB	10.203	85992437	100.000 CAL
Aroclor 1268		304059189	0.500 CAL

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\016.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
User: JJY
Sample ID: PCB 1268 CF PP 3762
Acquired: May 07,2013 12:58:41
Printed: May 07,2013 13:17:32

Data Summary: {Data Description}



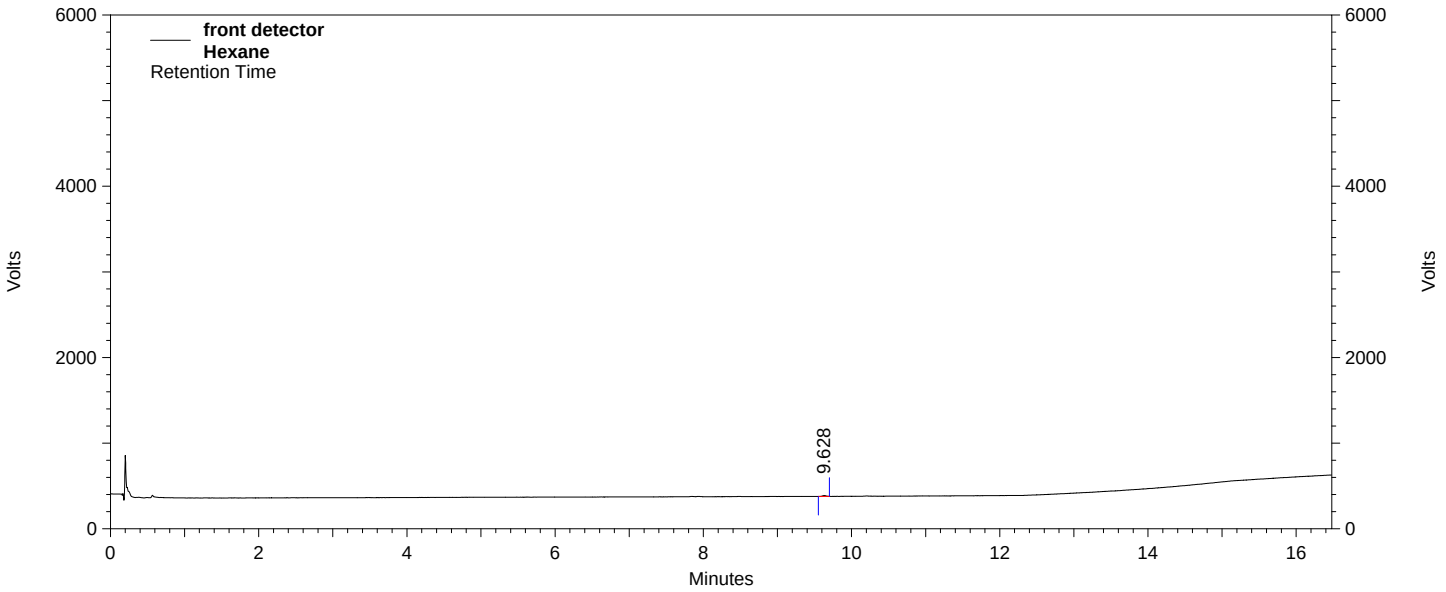
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	12556511	100.000 CAL
Aroclor 1268 #1	7.480	8681809	0.100 CAL
Aroclor 1268 #2	8.828	35603933	0.100 CAL
Aroclor 1268 #3	8.912	34087057	0.100 CAL
Aroclor 1268 #4	9.208	29030051	0.100 CAL
Aroclor 1268 #5	10.122	12990421	0.100 CAL
SURRDCB	10.907	29863576	100.000 CAL
Aroclor 1268		120393271	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\017.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: Hexane
Acquired: May 07,2013 13:18:17
Printed: May 07,2013 14:23:04

Data Summary: {Data Description}



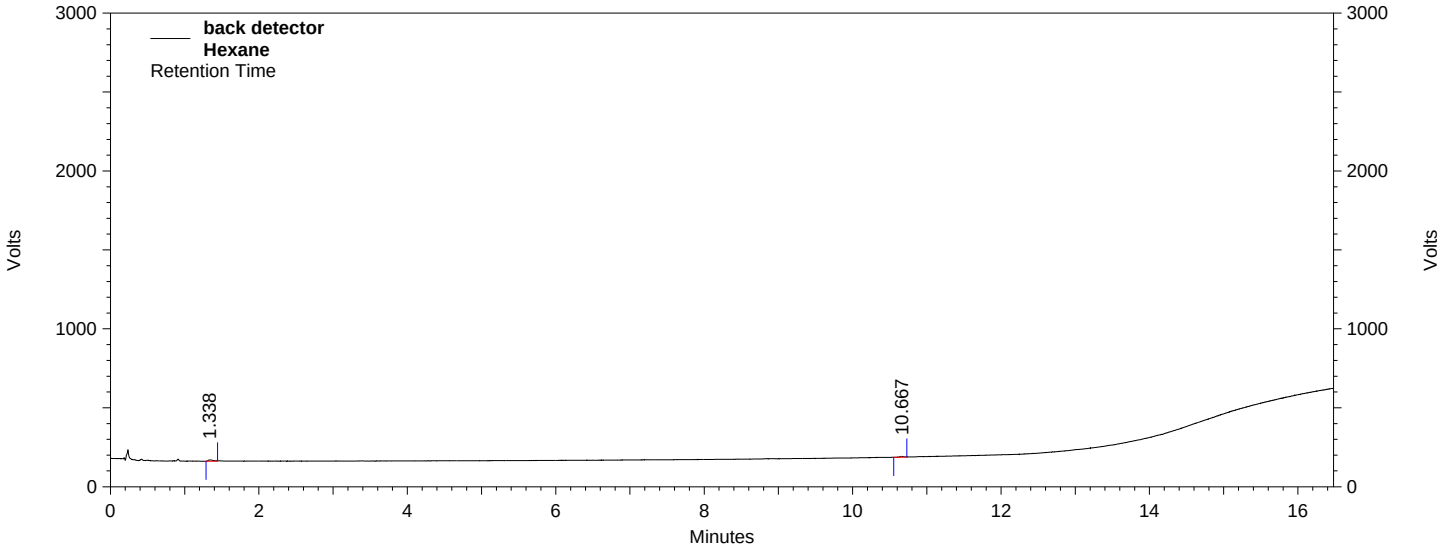
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB			0.000 BDL
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB			0.000 BDL
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\017.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\050713pcbic.met
User: JJY
Sample ID: Hexane
Acquired: May 07,2013 13:18:17
Printed: May 07,2013 14:23:04

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB			0.000 BDL
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB			0.000 BDL
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 07,2013 14:23:20

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\018.dat	PCB 1221 ICV PP 3779	May 07,2013 14:23:20

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	97.610	2.390	20.000	Passed
Aroclor 1221 #1	0.167	0.162	3.154	20.000	Passed
Aroclor 1221 #2	0.167	0.159	4.956	20.000	Passed
Aroclor 1221 #3	0.167	0.155	7.110	20.000	Passed
SURRDCB	100.000	98.675	1.325	20.000	Passed
Aroclor 1221	0.500	0.476	4.884	20.000	Passed

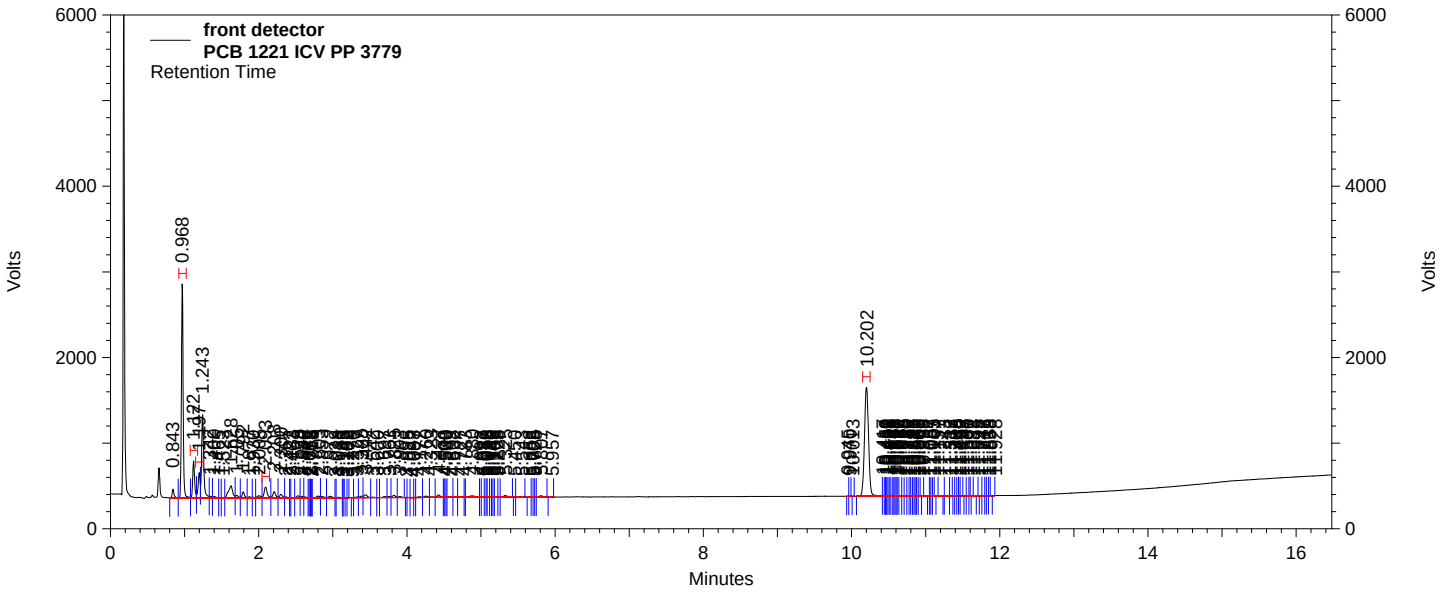
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	97.773	2.227	20.000	Passed
Aroclor 1221 #1	0.167	0.164	2.052	20.000	Passed
Aroclor 1221 #2	0.167	0.163	2.345	20.000	Passed
Aroclor 1221 #3	0.167	0.161	3.707	20.000	Passed
SURRDCB	100.000	98.063	1.937	20.000	Passed
Aroclor 1221	0.500	0.487	2.507	20.000	Passed

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\018.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
User: JJY
Sample ID: PCB 1221 ICV PP 3779
Acquired: May 07,2013 13:37:57
Printed: May 07,2013 14:23:19

Data Summary: {Data Description}



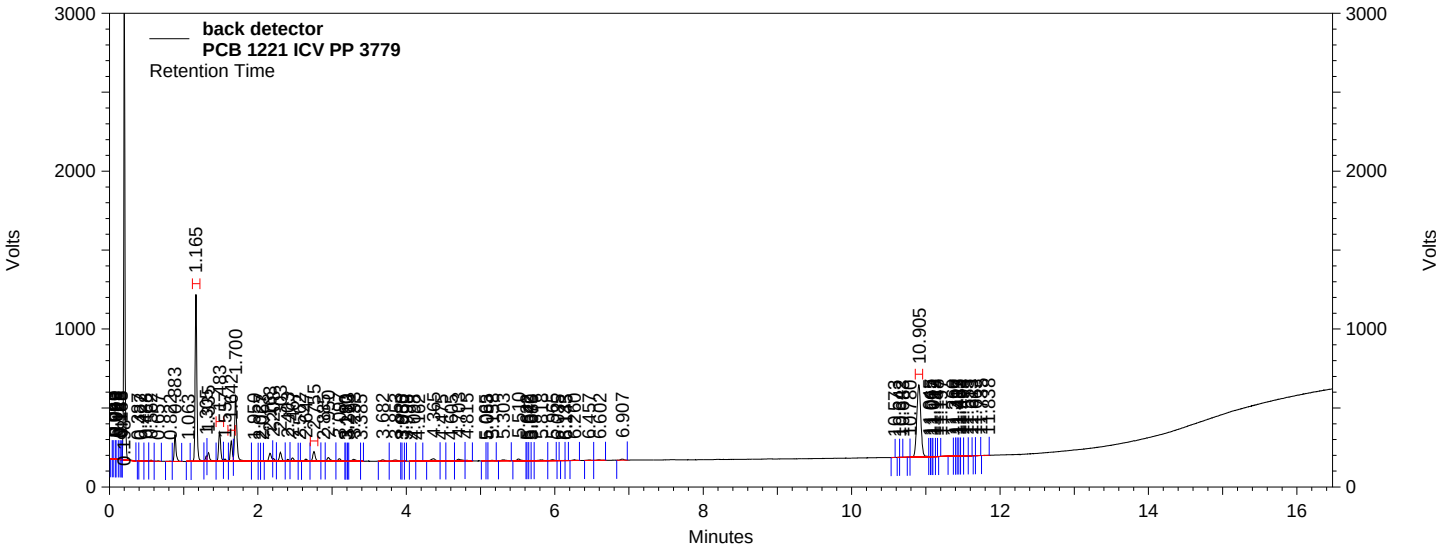
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.968	30726245	97.610
Aroclor 1221 #1	1.122	5846282	0.162
Aroclor 1221 #2	1.197	4062508	0.159
Aroclor 1221 #3	2.093	2617110	0.155
SURRDCB	10.202	37629081	98.675
Aroclor 1221		12525900	0.476

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\018.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1221.met
User: JJY
Sample ID: PCB 1221 ICV PP 3779
Acquired: May 07,2013 13:37:57
Printed: May 07,2013 14:23:19

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.165	13208561	97.773
Aroclor 1221 #1	1.483	2749029	0.164
Aroclor 1221 #2	1.642	1779230	0.163
Aroclor 1221 #3	2.755	1161771	0.161
SURRDCB	10.905	13290132	98.063
Aroclor 1221		5690030	0.487

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 07,2013 14:23:25

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\019.dat	PCB 1232 ICV PP 3780	May 07,2013 14:23:25

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	104.954	4.954	20.000	Passed
Aroclor 1232 #1	0.100	0.097	2.789	20.000	Passed
Aroclor 1232 #2	0.100	0.097	2.851	20.000	Passed
Aroclor 1232 #3	0.100	0.097	3.360	20.000	Passed
Aroclor 1232 #4	0.100	0.097	2.625	20.000	Passed
Aroclor 1232 #5	0.100	0.097	2.687	20.000	Passed
SURRDCB	100.000	104.828	4.828	20.000	Passed
Aroclor 1232	0.500	0.486	2.863	20.000	Passed

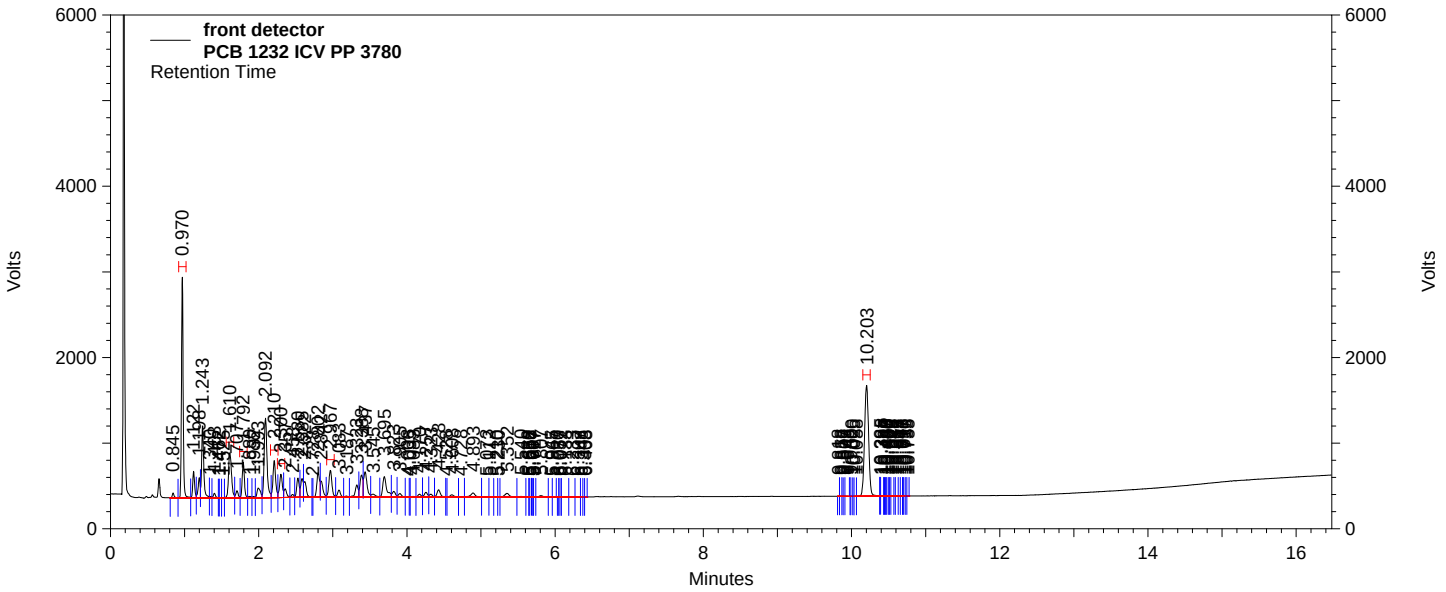
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.921	5.921	20.000	Passed
Aroclor 1232 #1	0.100	0.098	1.740	20.000	Passed
Aroclor 1232 #2	0.100	0.098	2.216	20.000	Passed
Aroclor 1232 #3	0.100	0.098	1.949	20.000	Passed
Aroclor 1232 #4	0.100	0.099	1.220	20.000	Passed
Aroclor 1232 #5	0.100	0.097	2.771	20.000	Passed
SURRDCB	100.000	105.538	5.538	20.000	Passed
Aroclor 1232	0.500	0.490	1.979	20.000	Passed

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\019.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
User: JJY
Sample ID: PCB 1232 ICV PP 3780
Acquired: May 07,2013 13:57:31
Printed: May 07,2013 14:23:24

Data Summary: {Data Description}



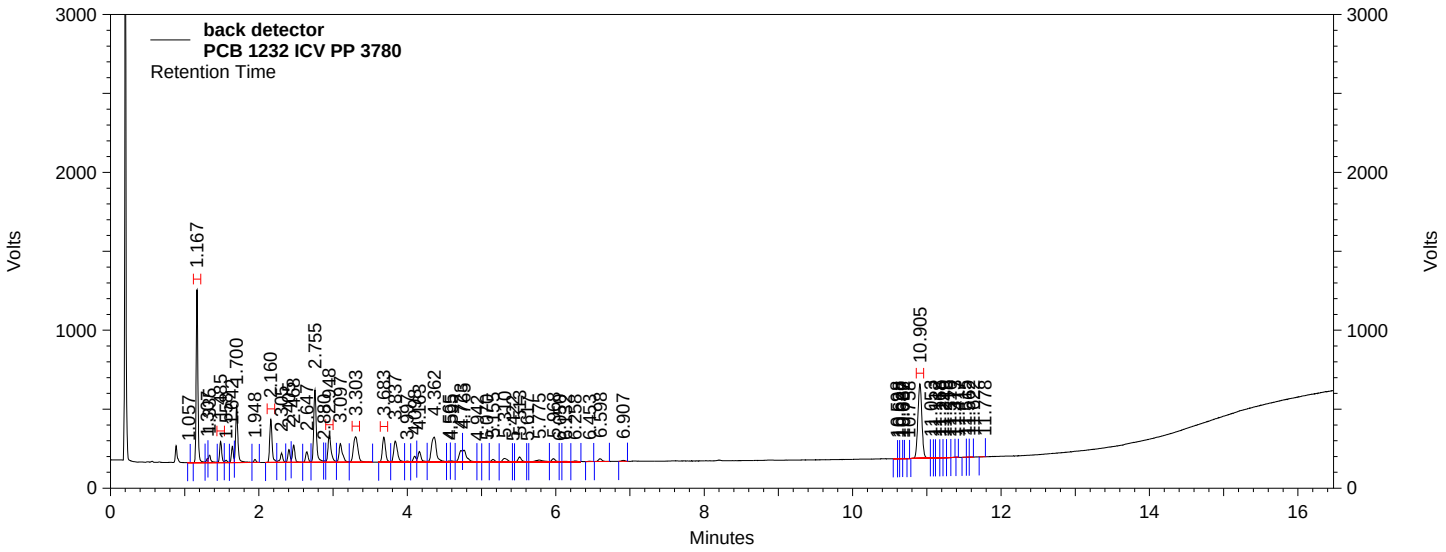
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	31151177	104.954
Aroclor 1232 #1	1.610	11303436	0.097
Aroclor 1232 #2	1.792	6498070	0.097
Aroclor 1232 #3	2.210	8364105	0.097
Aroclor 1232 #4	2.300	5495425	0.097
Aroclor 1232 #5	2.967	7210364	0.097
SURRDCB	10.203	38222555	104.828
Aroclor 1232		38871400	0.486

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\019.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1232.met
User: JJY
Sample ID: PCB 1232 ICV PP 3780
Acquired: May 07,2013 13:57:31
Printed: May 07,2013 14:23:24

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	13443892	105.921
Aroclor 1232 #1	1.485	1962523	0.098
Aroclor 1232 #2	2.160	4670011	0.098
Aroclor 1232 #3	2.948	3873780	0.098
Aroclor 1232 #4	3.303	5309686	0.099
Aroclor 1232 #5	3.683	3606100	0.097
SURRDCB	10.905	13602391	105.538
Aroclor 1232		19422100	0.490

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 07,2013 15:04:39

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\020.dat	PCB 1242 ICV PP 3781	May 07,2013 15:04:39

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	99.468	0.532	20.000	Passed
Aroclor 1242 #1	0.100	0.105	4.974	20.000	Passed
Aroclor 1242 #2	0.100	0.105	5.136	20.000	Passed
Aroclor 1242 #3	0.100	0.105	5.066	20.000	Passed
Aroclor 1242 #4	0.100	0.105	5.473	20.000	Passed
Aroclor 1242 #5	0.100	0.106	5.760	20.000	Passed
SURRDCB	100.000	99.429	0.571	20.000	Passed
Aroclor 1242	0.500	0.526	5.282	20.000	Passed

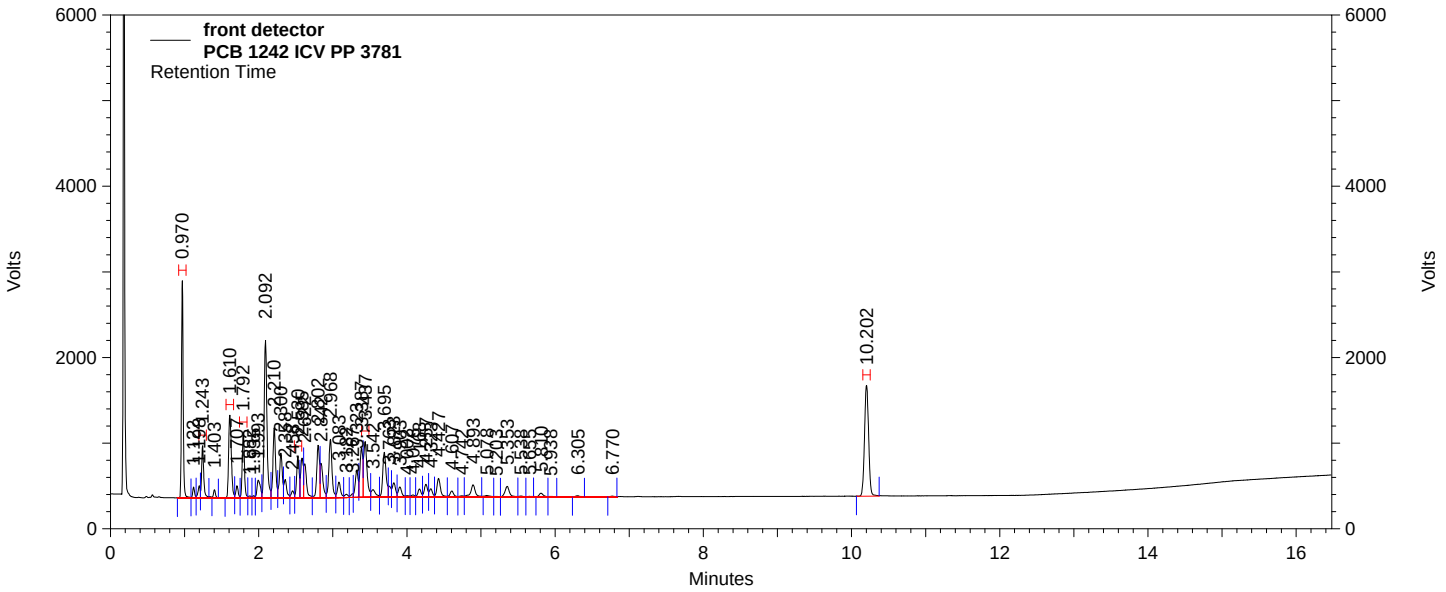
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	99.957	0.043	20.000	Passed
Aroclor 1242 #1	0.100	0.106	6.162	20.000	Passed
Aroclor 1242 #2	0.100	0.107	6.987	20.000	Passed
Aroclor 1242 #3	0.100	0.106	6.157	20.000	Passed
Aroclor 1242 #4	0.100	0.106	5.607	20.000	Passed
Aroclor 1242 #5	0.100	0.106	5.813	20.000	Passed
SURRDCB	100.000	100.225	0.225	20.000	Passed
Aroclor 1242	0.500	0.531	6.145	20.000	Passed

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\020.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
User: JJY
Sample ID: PCB 1242 ICV PP 3781
Acquired: May 07,2013 14:17:10
Printed: May 07,2013 15:04:37

Data Summary: {Data Description}



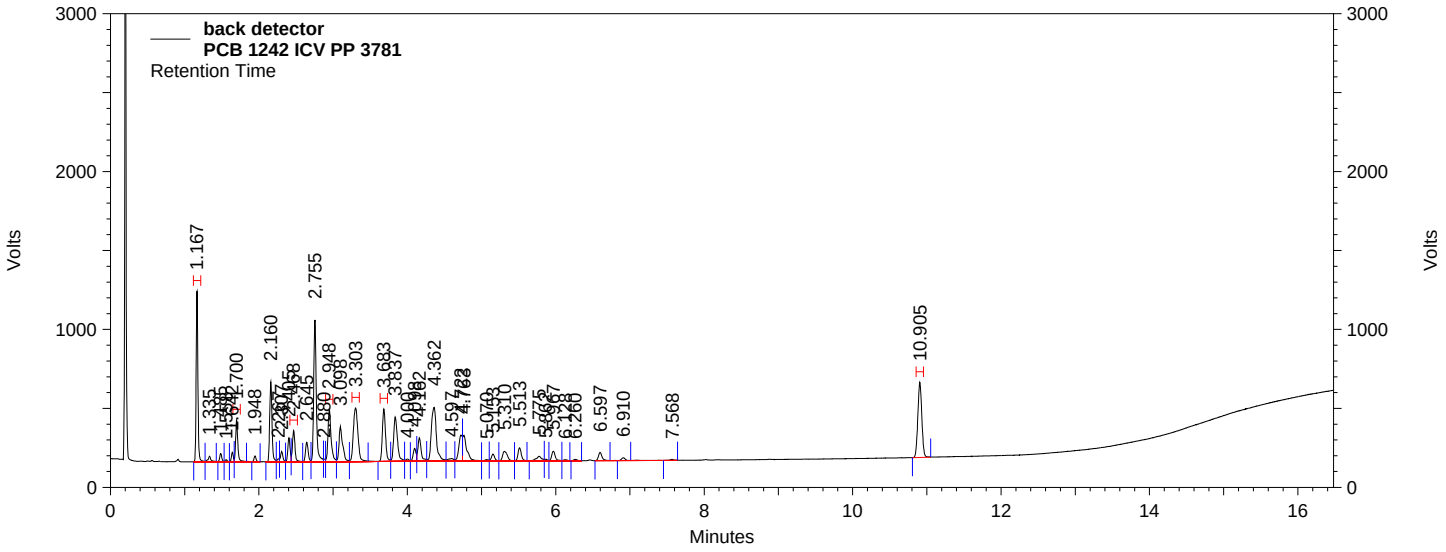
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	31103334	99.468
Aroclor 1242 #1	1.243	9169623	0.105
Aroclor 1242 #2	1.610	18989907	0.105
Aroclor 1242 #3	1.792	12056701	0.105
Aroclor 1242 #4	2.530	8745186	0.105
Aroclor 1242 #5	3.437	15768667	0.106
SURRDCB	10.202	38397322	99.429
Aroclor 1242		64730084	0.526

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\020.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1242.met
User: JJY
Sample ID: PCB 1242 ICV PP 3781
Acquired: May 07,2013 14:17:10
Printed: May 07,2013 15:04:37

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	13382212	99.957
Aroclor 1242 #1	1.700	4195201	0.106
Aroclor 1242 #2	2.468	3539838	0.107
Aroclor 1242 #3	2.948	7319857	0.106
Aroclor 1242 #4	3.303	11130147	0.106
Aroclor 1242 #5	3.683	7600579	0.106
SURRDCB	10.905	13697843	100.225
Aroclor 1242		33785622	0.531

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 07,2013 15:04:47

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\021.dat	PCB 1248 ICV PP 3782	May 07,2013 15:04:46

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.422	5.422	20.000	Passed
Aroclor 1248 #1	0.100	0.101	1.132	20.000	Passed
Aroclor 1248 #2	0.100	0.102	1.540	20.000	Passed
Aroclor 1248 #3	0.100	0.101	1.357	20.000	Passed
Aroclor 1248 #4	0.100	0.100	0.268	20.000	Passed
Aroclor 1248 #5	0.100	0.101	0.680	20.000	Passed
SURRDCB	100.000	105.225	5.225	20.000	Passed
Aroclor 1248	0.500	0.505	0.996	20.000	Passed

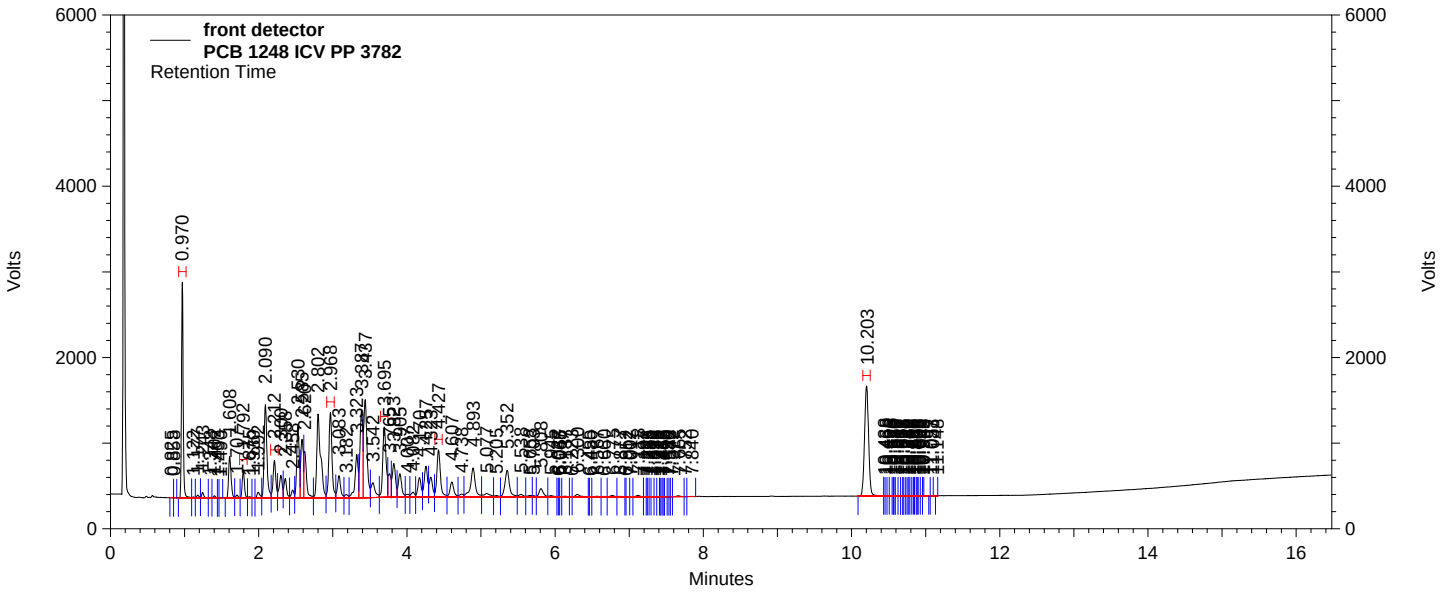
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.814	5.814	20.000	Passed
Aroclor 1248 #1	0.100	0.102	1.947	20.000	Passed
Aroclor 1248 #2	0.100	0.102	2.193	20.000	Passed
Aroclor 1248 #3	0.100	0.102	2.473	20.000	Passed
Aroclor 1248 #4	0.100	0.102	2.035	20.000	Passed
Aroclor 1248 #5	0.100	0.102	1.664	20.000	Passed
SURRDCB	100.000	105.966	5.966	20.000	Passed
Aroclor 1248	0.500	0.510	2.062	20.000	Passed

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\021.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
User: JJY
Sample ID: PCB 1248 ICV PP 3782
Acquired: May 07,2013 14:36:45
Printed: May 07,2013 15:04:45

Data Summary: {Data Description}



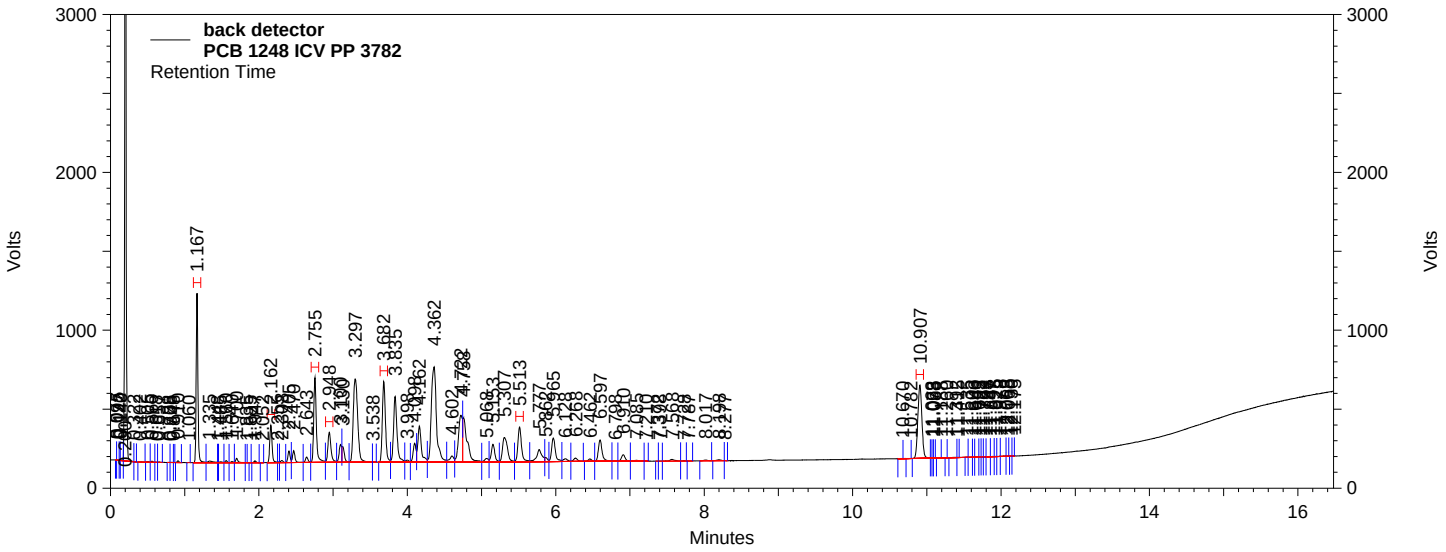
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	30117054	105.422
Aroclor 1248 #1	1.792	5082437	0.101
Aroclor 1248 #2	2.212	8609511	0.102
Aroclor 1248 #3	2.968	22276658	0.101
Aroclor 1248 #4	3.695	19735525	0.100
Aroclor 1248 #5	4.427	14328252	0.101
SURRDCB	10.203	37777842	105.225
Aroclor 1248		70032383	0.505

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\021.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1248.met
User: JJY
Sample ID: PCB 1248 ICV PP 3782
Acquired: May 07,2013 14:36:45
Printed: May 07,2013 15:04:45

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	13145218	105.814
Aroclor 1248 #1	2.162	3914936	0.102
Aroclor 1248 #2	2.755	10256171	0.102
Aroclor 1248 #3	2.948	4224513	0.102
Aroclor 1248 #4	3.682	11429542	0.102
Aroclor 1248 #5	5.513	5673308	0.102
SURRDCB	10.907	13469681	105.966
Aroclor 1248		35498470	0.510

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 09,2013 08:04:00

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\022.dat	PCB 1254 ICV PP 3753	May 09,2013 08:04:00

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	98.118	1.882	20.000	Passed
Aroclor 1254 #1	0.100	0.101	0.686	20.000	Passed
Aroclor 1254 #2	0.100	0.101	1.282	20.000	Passed
Aroclor 1254 #3	0.100	0.101	0.845	20.000	Passed
Aroclor 1254 #4	0.100	0.101	1.430	20.000	Passed
Aroclor 1254 #5	0.100	0.102	1.631	20.000	Passed
SURRDCB	100.000	100.033	0.033	20.000	Passed
Aroclor 1254	0.500	0.506	1.175	20.000	Passed

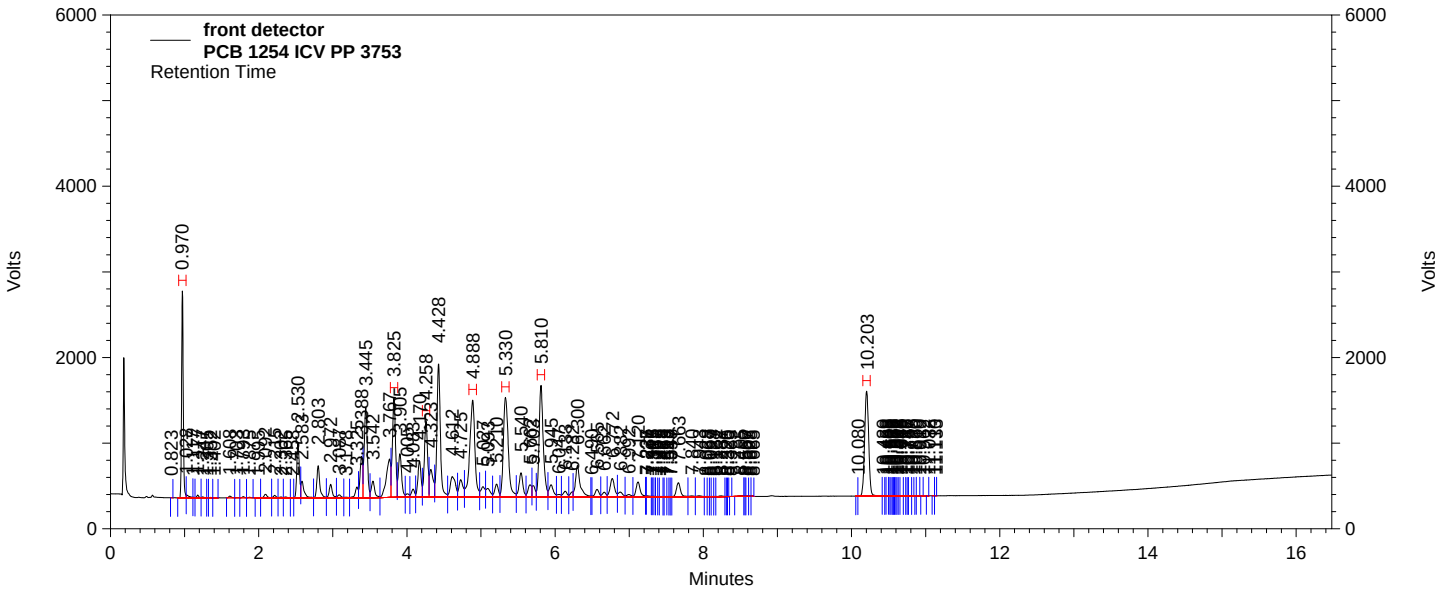
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	100.108	0.108	20.000	Passed
Aroclor 1254 #1	0.100	0.102	2.458	20.000	Passed
Aroclor 1254 #2	0.100	0.103	2.736	20.000	Passed
Aroclor 1254 #3	0.100	0.102	2.354	20.000	Passed
Aroclor 1254 #4	0.100	0.104	3.986	20.000	Passed
Aroclor 1254 #5	0.100	0.102	2.327	20.000	Passed
SURRDCB	100.000	100.856	0.856	20.000	Passed
Aroclor 1254	0.500	0.514	2.772	20.000	Passed

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\022.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
User: JJY
Sample ID: PCB 1254 ICV PP 3753
Acquired: May 07,2013 14:56:20
Printed: May 09,2013 08:03:54

Data Summary: {Data Description}



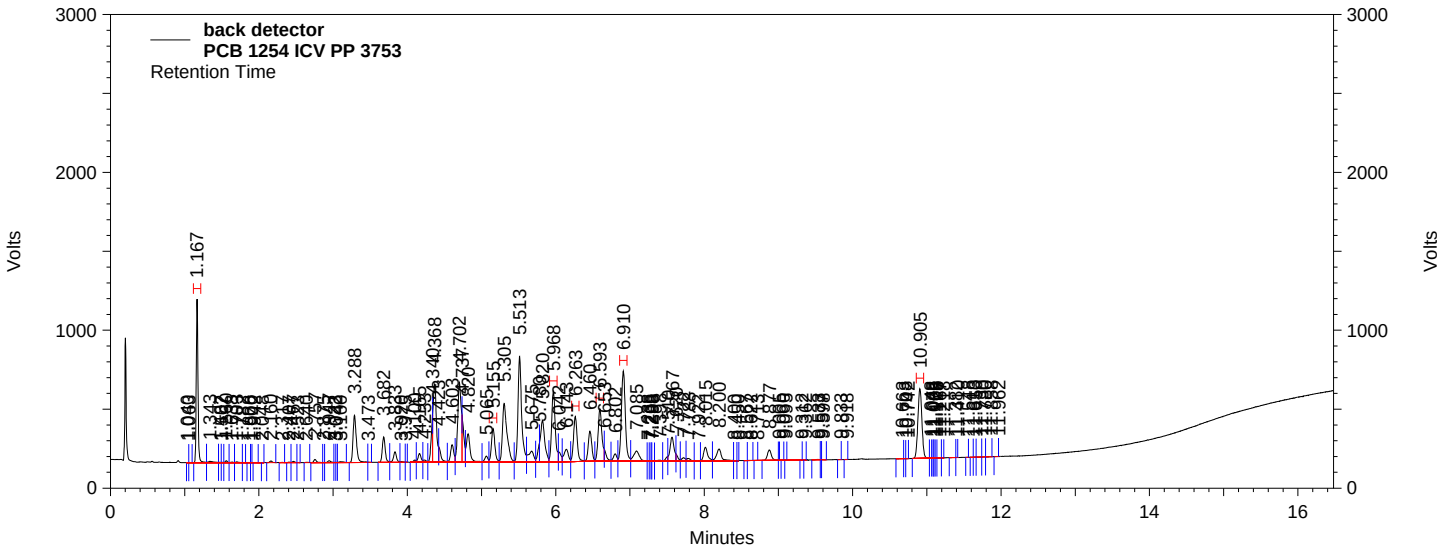
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	28859936	98.118
Aroclor 1254 #1	3.825	25947736	0.101
Aroclor 1254 #2	4.258	21072794	0.101
Aroclor 1254 #3	4.888	41994600	0.101
Aroclor 1254 #4	5.330	41349001	0.101
Aroclor 1254 #5	5.810	38634381	0.102
SURRDCB	10.203	35917887	100.033
Aroclor 1254		168998512	0.506

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\022.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1254.met
User: JJY
Sample ID: PCB 1254 ICV PP 3753
Acquired: May 07,2013 14:56:20
Printed: May 09,2013 08:03:54

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	12757931	100.108
Aroclor 1254 #1	5.155	5205761	0.102
Aroclor 1254 #2	5.968	11502344	0.103
Aroclor 1254 #3	6.263	7454477	0.102
Aroclor 1254 #4	6.593	9158360	0.104
Aroclor 1254 #5	6.910	16166381	0.102
SURRDCB	10.905	12802866	100.856
Aroclor 1254		49487323	0.514

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 08,2013 07:14:34

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\023.dat	PCB 1262 ICV PP 3783	May 08,2013 07:14:33

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	100.868	0.868	20.000	Passed
Aroclor 1262 #1	0.100	0.099	0.929	20.000	Passed
Aroclor 1262 #2	0.100	0.099	0.956	20.000	Passed
Aroclor 1262 #3	0.100	0.099	0.663	20.000	Passed
Aroclor 1262 #4	0.100	0.099	0.879	20.000	Passed
Aroclor 1262 #5	0.100	0.099	1.003	20.000	Passed
SURRDCB	100.000	101.157	1.157	20.000	Passed
Aroclor 1262	0.500	0.496	0.886	20.000	Passed

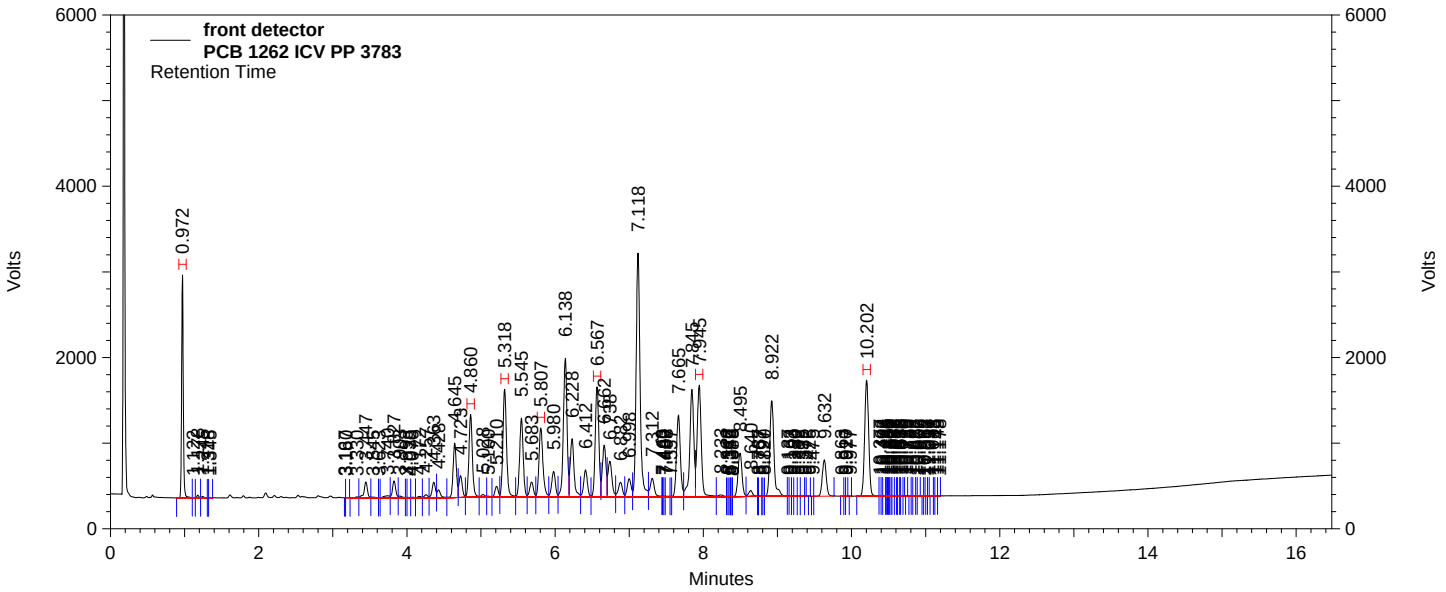
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	101.222	1.222	20.000	Passed
Aroclor 1262 #1	0.100	0.101	0.566	20.000	Passed
Aroclor 1262 #2	0.100	0.101	0.769	20.000	Passed
Aroclor 1262 #3	0.100	0.100	0.218	20.000	Passed
Aroclor 1262 #4	0.100	0.100	0.008	20.000	Passed
Aroclor 1262 #5	0.100	0.101	0.938	20.000	Passed
SURRDCB	100.000	102.615	2.615	20.000	Passed
Aroclor 1262	0.500	0.502	0.497	20.000	Passed

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\023.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
User: JJY
Sample ID: PCB 1262 ICV PP 3783
Acquired: May 07,2013 15:16:01
Printed: May 08,2013 07:14:30

Data Summary: {Data Description}



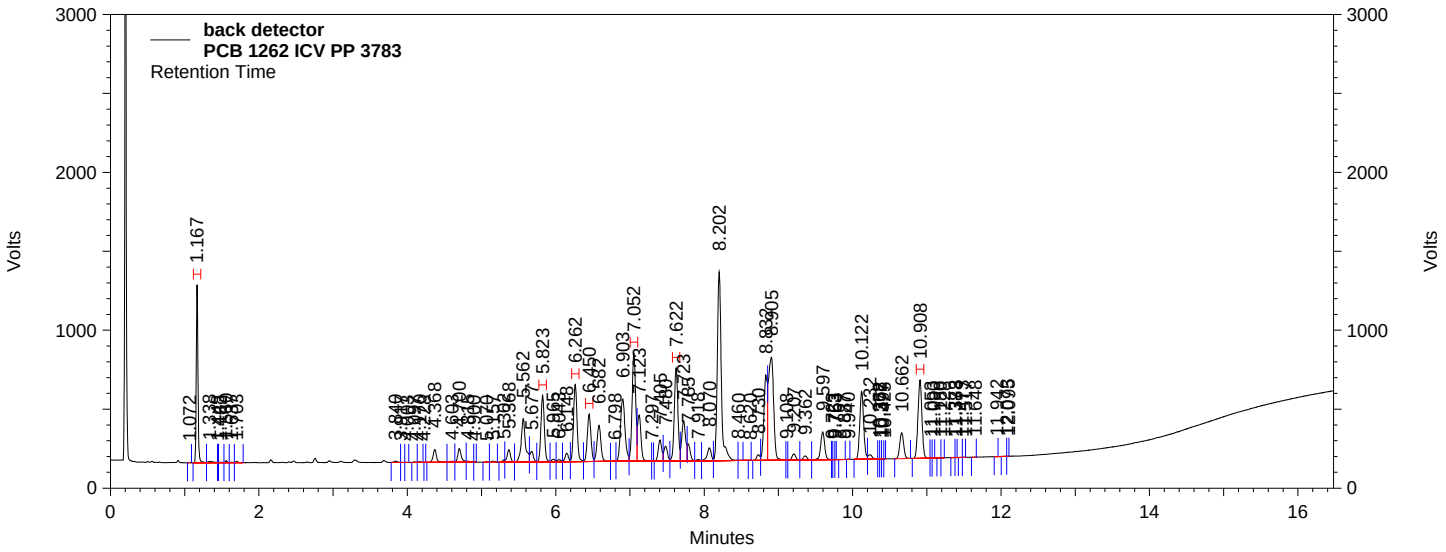
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.972	31076310	100.868
Aroclor 1262 #1	4.860	24453919	0.099
Aroclor 1262 #2	5.318	33646593	0.099
Aroclor 1262 #3	5.807	23245580	0.099
Aroclor 1262 #4	6.567	33220026	0.099
Aroclor 1262 #5	7.945	38322768	0.099
SURRDCB	10.202	39267188	101.157
Aroclor 1262		152888886	0.496

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\023.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1262.met
User: JJY
Sample ID: PCB 1262 ICV PP 3783
Acquired: May 07,2013 15:16:01
Printed: May 08,2013 07:14:30

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	13703023	101.222
Aroclor 1262 #1	5.823	10306966	0.101
Aroclor 1262 #2	6.262	12433014	0.101
Aroclor 1262 #3	6.450	7797359	0.100
Aroclor 1262 #4	7.052	17704853	0.100
Aroclor 1262 #5	7.622	15311133	0.101
SURRDCB	10.908	14068158	102.615
Aroclor 1262		63553325	0.502

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\050713pcbic.seq
User : JJY
Printed : May 08,2013 07:14:38

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\050713pcbic\024.dat	PCB 1268 ICV PP 3764	May 08,2013 07:14:38

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	100.252	0.252	20.000	Passed
Aroclor 1268 #1	0.100	0.099	0.813	20.000	Passed
Aroclor 1268 #2	0.100	0.099	0.685	20.000	Passed
Aroclor 1268 #3	0.100	0.099	0.919	20.000	Passed
Aroclor 1268 #4	0.100	0.099	1.032	20.000	Passed
Aroclor 1268 #5	0.100	0.099	0.713	20.000	Passed
SURRDCB	100.000	99.397	0.603	20.000	Passed
Aroclor 1268	0.500	0.496	0.833	20.000	Passed

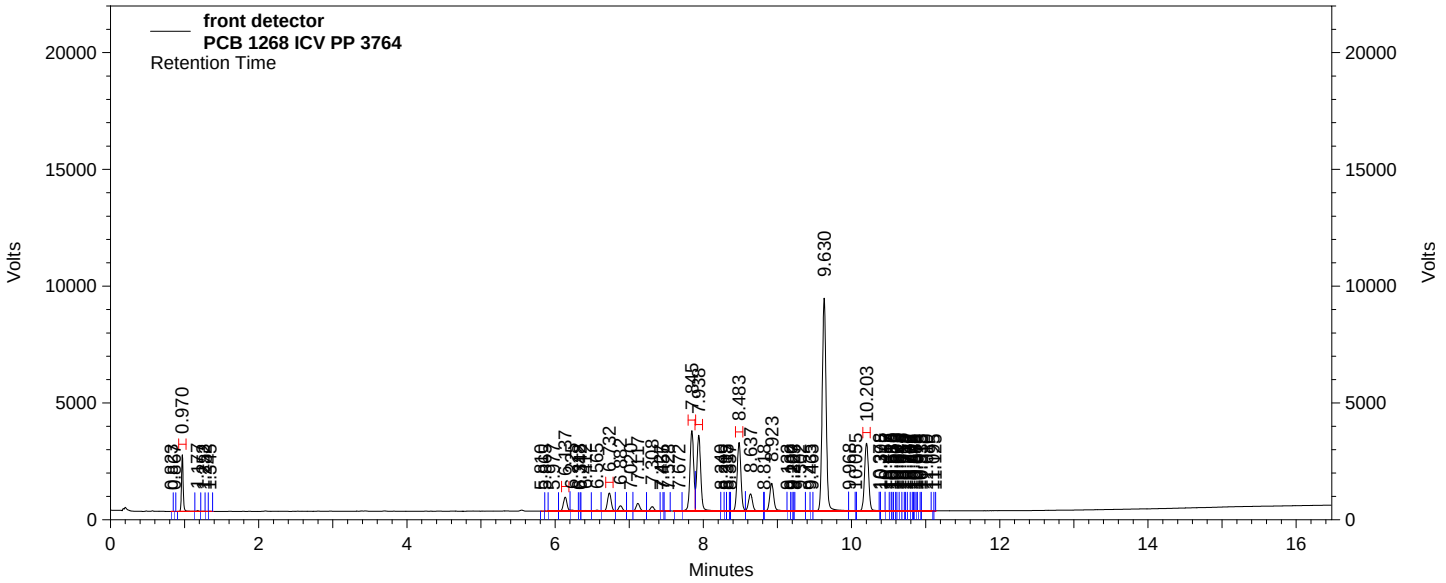
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	101.196	1.196	20.000	Passed
Aroclor 1268 #1	0.100	0.100	0.418	20.000	Passed
Aroclor 1268 #2	0.100	0.100	0.239	20.000	Passed
Aroclor 1268 #3	0.100	0.099	1.021	20.000	Passed
Aroclor 1268 #4	0.100	0.100	0.267	20.000	Passed
Aroclor 1268 #5	0.100	0.100	0.448	20.000	Passed
SURRDCB	100.000	100.286	0.286	20.000	Passed
Aroclor 1268	0.500	0.498	0.478	20.000	Passed

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\024.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
User: JJY
Sample ID: PCB 1268 ICV PP 3764
Acquired: May 07,2013 15:35:37
Printed: May 08,2013 07:14:37

Data Summary: {Data Description}



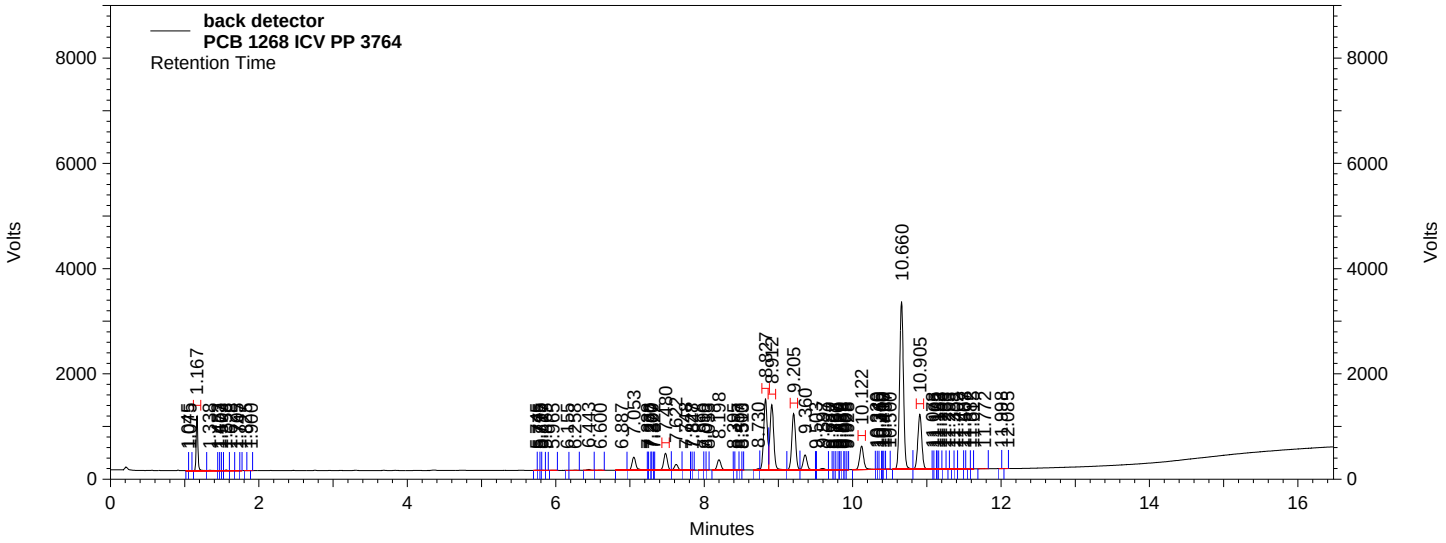
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	0.970	28996518	100.252
Aroclor 1268 #1	6.137	15642497	0.099
Aroclor 1268 #2	6.732	20761326	0.099
Aroclor 1268 #3	7.845	93311098	0.099
Aroclor 1268 #4	7.938	91846456	0.099
Aroclor 1268 #5	8.483	79829645	0.099
SURRDCB	10.203	85473927	99.397
Aroclor 1268		301391022	0.496

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\050713pcbic\024.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\1268.met
User: JJY
Sample ID: PCB 1268 ICV PP 3764
Acquired: May 07,2013 15:35:37
Printed: May 08,2013 07:14:37

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.167	12706636	101.196
Aroclor 1268 #1	7.480	8645559	0.100
Aroclor 1268 #2	8.827	35518768	0.100
Aroclor 1268 #3	8.912	33738956	0.099
Aroclor 1268 #4	9.205	28952604	0.100
Aroclor 1268 #5	10.122	12932263	0.100
SURRDCB	10.905	29948858	100.286
Aroclor 1268		119788150	0.498

POLYCHLORINATED BIPHENYL CONTINUING AND ENDING STANDARDS DOCUMENTS

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\082113pcb.seq
User : JJY
Printed : Aug 21,2013 09:44:03

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\082113pcb\003.dat	PCB CCV PP 3822	Aug 21,2013 09:44:02

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	96.714	3.286	20.000	Passed
Aroclor 1016 #1	0.100	0.101	0.785	20.000	Passed
Aroclor 1016 #2	0.100	0.100	0.063	20.000	Passed
Aroclor 1016 #3	0.100	0.099	1.070	20.000	Passed
Aroclor 1016 #4	0.100	0.103	2.928	20.000	Passed
Aroclor 1016 #5	0.100	0.101	1.483	20.000	Passed
Aroclor 1260 #1	0.100	0.103	2.606	20.000	Passed
Aroclor 1260 #2	0.100	0.102	2.015	20.000	Passed
Aroclor 1260 #3	0.100	0.102	1.880	20.000	Passed
Aroclor 1260 #4	0.100	0.103	2.591	20.000	Passed
Aroclor 1260 #5	0.100	0.103	3.472	20.000	Passed
SURRDCBPCB	100.000	102.805	2.805	20.000	Passed
Aroclor 1016	0.500	0.504	0.838	20.000	Passed
Aroclor 1260	0.500	0.513	2.513	20.000	Passed

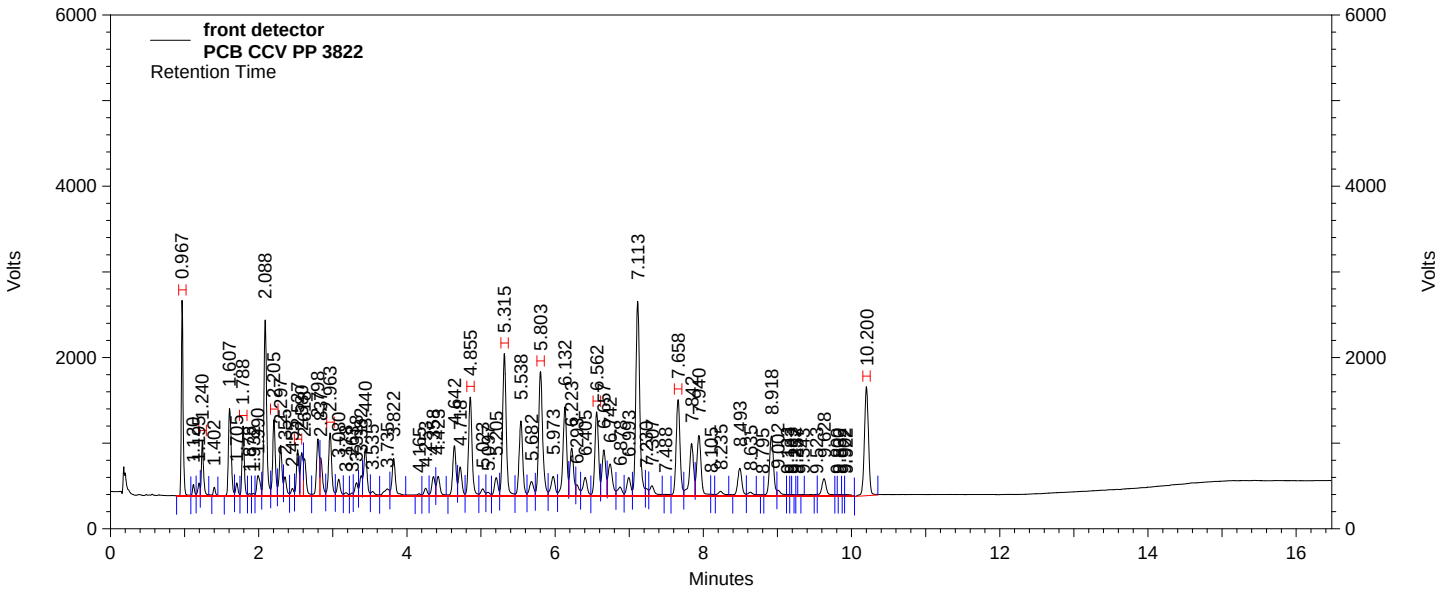
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	87.580	12.420	20.000	Passed
Aroclor 1016 #1	0.100	0.089	10.706	20.000	Passed
Aroclor 1016 #2	0.100	0.089	10.890	20.000	Passed
Aroclor 1016 #3	0.100	0.090	9.727	20.000	Passed
Aroclor 1016 #4	0.100	0.090	10.450	20.000	Passed
Aroclor 1016 #5	0.100	0.089	11.321	20.000	Passed
Aroclor 1260 #1	0.100	0.090	9.851	20.000	Passed
Aroclor 1260 #2	0.100	0.090	9.768	20.000	Passed
Aroclor 1260 #3	0.100	0.090	9.770	20.000	Passed
Aroclor 1260 #4	0.100	0.091	9.412	20.000	Passed
Aroclor 1260 #5	0.100	0.091	8.936	20.000	Passed
SURRDCBPCB	100.000	94.111	5.889	20.000	Passed
Aroclor 1016	0.500	0.447	10.619	20.000	Passed
Aroclor 1260	0.500	0.452	9.548	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\082113pcb\003.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: PCB CCV PP 3822
Acquired: Aug 21,2013 09:26:39
Printed: Aug 21,2013 09:44:01

Data Summary: {Data Description}



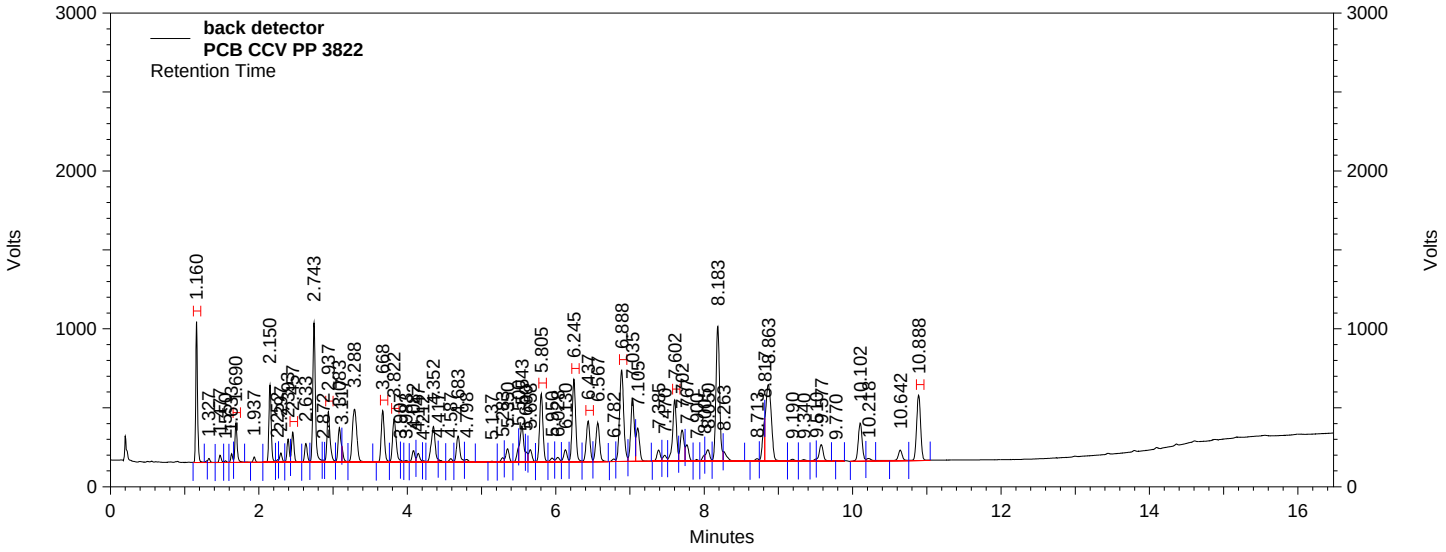
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.967	28939247	96.714
Aroclor 1016 #1	1.240	9867602	0.101
Aroclor 1016 #2	1.788	13180686	0.100
Aroclor 1016 #3	2.205	17184038	0.099
Aroclor 1016 #4	2.527	9873023	0.103
Aroclor 1016 #5	2.963	16713137	0.101
Aroclor 1260 #1	4.855	29559190	0.103
Aroclor 1260 #2	5.315	44117041	0.102
Aroclor 1260 #3	5.803	42367382	0.102
Aroclor 1260 #4	6.562	26094820	0.103
Aroclor 1260 #5	7.658	32300741	0.103
SURRDCBPCB	10.200	37604951	102.805
Aroclor 1016		66818486	0.504
Aroclor 1260		174439174	0.513

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\082113pcb\003.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: PCB CCV PP 3822
Acquired: Aug 21,2013 09:26:39
Printed: Aug 21,2013 09:44:01

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.160	11281228	87.580
Aroclor 1016 #1	1.690	3965289	0.089
Aroclor 1016 #2	2.457	3360536	0.089
Aroclor 1016 #3	2.937	7086656	0.090
Aroclor 1016 #4	3.668	7368718	0.090
Aroclor 1016 #5	3.822	7128079	0.089
Aroclor 1260 #1	5.805	10470984	0.090
Aroclor 1260 #2	6.245	12967702	0.090
Aroclor 1260 #3	6.437	6746866	0.090
Aroclor 1260 #4	6.888	17240205	0.091
Aroclor 1260 #5	7.602	10737463	0.091
SURRDCBPCB	10.888	11986311	94.111
Aroclor 1016		28909278	0.447
Aroclor 1260		58163220	0.452

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\082113pcb.seq
User : JJY
Printed : Aug 21,2013 14:24:42

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\082113pcb\013.dat	PCB CCV PP 3822	Aug 21,2013 14:24:42

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	104.857	4.857	20.000	Passed
Aroclor 1016 #1	0.100	0.108	8.396	20.000	Passed
Aroclor 1016 #2	0.100	0.108	7.724	20.000	Passed
Aroclor 1016 #3	0.100	0.107	7.322	20.000	Passed
Aroclor 1016 #4	0.100	0.110	9.821	20.000	Passed
Aroclor 1016 #5	0.100	0.108	8.377	20.000	Passed
Aroclor 1260 #1	0.100	0.108	7.779	20.000	Passed
Aroclor 1260 #2	0.100	0.108	8.346	20.000	Passed
Aroclor 1260 #3	0.100	0.109	8.598	20.000	Passed
Aroclor 1260 #4	0.100	0.108	8.192	20.000	Passed
Aroclor 1260 #5	0.100	0.109	8.749	20.000	Passed
SURRDCBPCB	100.000	114.792	14.792	20.000	Passed
Aroclor 1016	0.500	0.542	8.328	20.000	Passed
Aroclor 1260	0.500	0.542	8.333	20.000	Passed

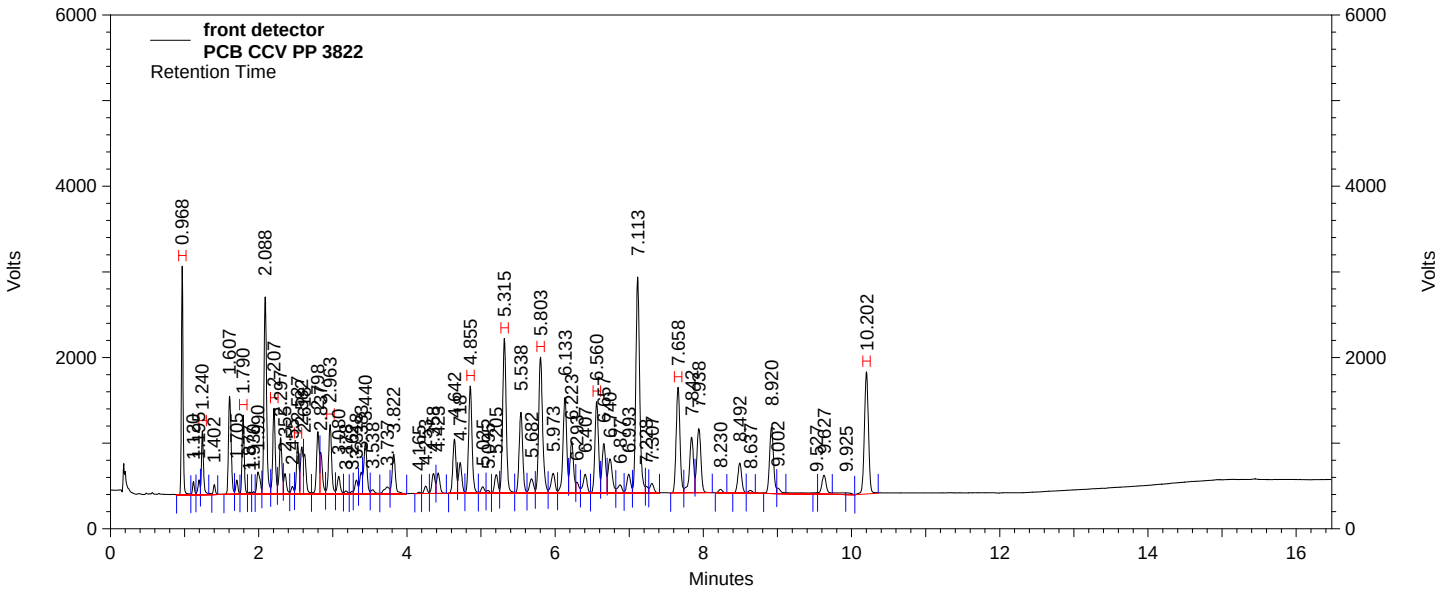
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	96.637	3.363	20.000	Passed
Aroclor 1016 #1	0.100	0.099	0.624	20.000	Passed
Aroclor 1016 #2	0.100	0.100	0.099	20.000	Passed
Aroclor 1016 #3	0.100	0.101	1.362	20.000	Passed
Aroclor 1016 #4	0.100	0.100	0.030	20.000	Passed
Aroclor 1016 #5	0.100	0.102	1.898	20.000	Passed
Aroclor 1260 #1	0.100	0.101	1.394	20.000	Passed
Aroclor 1260 #2	0.100	0.102	1.937	20.000	Passed
Aroclor 1260 #3	0.100	0.102	2.389	20.000	Passed
Aroclor 1260 #4	0.100	0.102	2.130	20.000	Passed
Aroclor 1260 #5	0.100	0.103	3.169	20.000	Passed
SURRDCBPCB	100.000	106.692	6.692	20.000	Passed
Aroclor 1016	0.500	0.503	0.541	20.000	Passed
Aroclor 1260	0.500	0.511	2.204	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\082113pcb\013.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: PCB CCV PP 3822
Acquired: Aug 21,2013 13:46:53
Printed: Aug 21,2013 14:24:38

Data Summary: {Data Description}



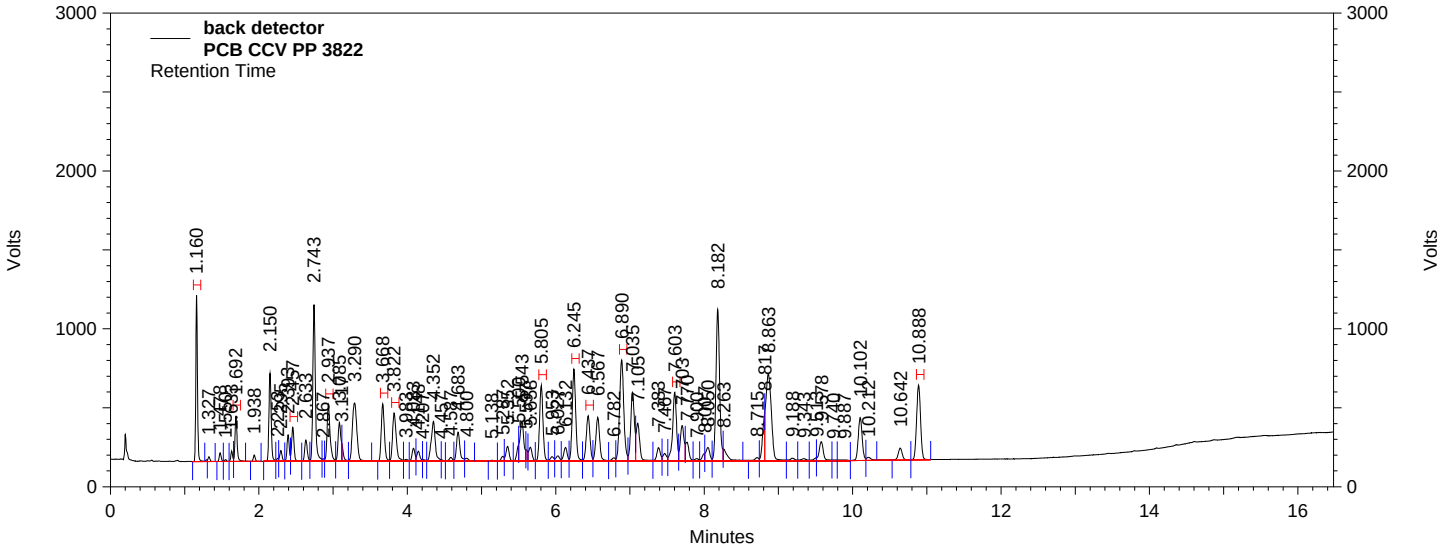
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.968	31354613	104.857
Aroclor 1016 #1	1.240	10600361	0.108
Aroclor 1016 #2	1.790	14174067	0.108
Aroclor 1016 #3	2.207	18616056	0.107
Aroclor 1016 #4	2.527	10521652	0.110
Aroclor 1016 #5	2.963	17833459	0.108
Aroclor 1260 #1	4.855	31014523	0.108
Aroclor 1260 #2	5.315	46800046	0.108
Aroclor 1260 #3	5.803	45118471	0.109
Aroclor 1260 #4	6.560	27496575	0.108
Aroclor 1260 #5	7.658	33928616	0.109
SURRDCBPCB	10.202	41892527	114.792
Aroclor 1016		71745595	0.542
Aroclor 1260		184358231	0.542

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\082113pcb\013.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: PCB CCV PP 3822
Acquired: Aug 21,2013 13:46:53
Printed: Aug 21,2013 14:24:38

Data Summary: {Data Description}



back detector Results

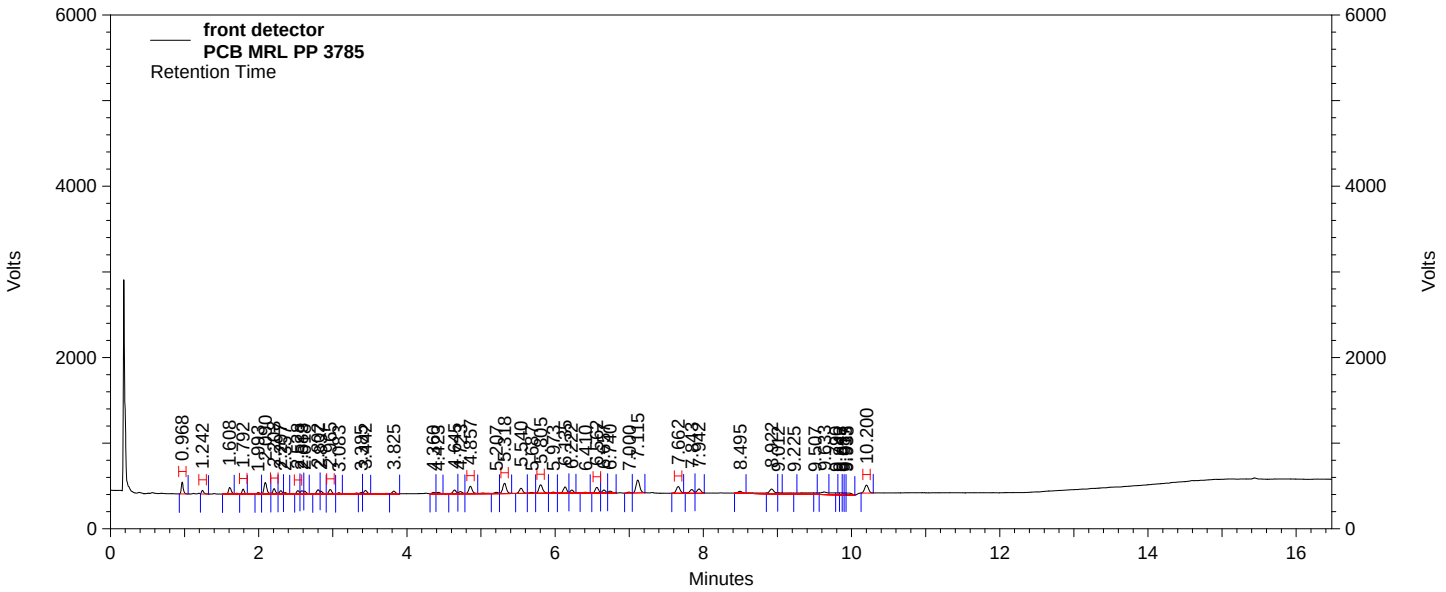
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.160	12439968	96.637
Aroclor 1016 #1	1.692	4403165	0.099
Aroclor 1016 #2	2.457	3769845	0.100
Aroclor 1016 #3	2.937	7945531	0.101
Aroclor 1016 #4	3.668	8213879	0.100
Aroclor 1016 #5	3.822	8174621	0.102
Aroclor 1260 #1	5.805	11749584	0.101
Aroclor 1260 #2	6.245	14622416	0.102
Aroclor 1260 #3	6.437	7643896	0.102
Aroclor 1260 #4	6.890	19405160	0.102
Aroclor 1260 #5	7.603	12141419	0.103
SURRDCBPCB	10.888	13537606	106.692
Aroclor 1016		32507041	0.503
Aroclor 1260		65562475	0.511

POLYCHLORINATED BIPHENYL QUALITY CONTROL DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\082113pcb\004.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: PCB MRL PP 3785
Acquired: Aug 21,2013 10:49:57
Printed: Aug 21,2013 11:08:04

Data Summary: {Data Description}



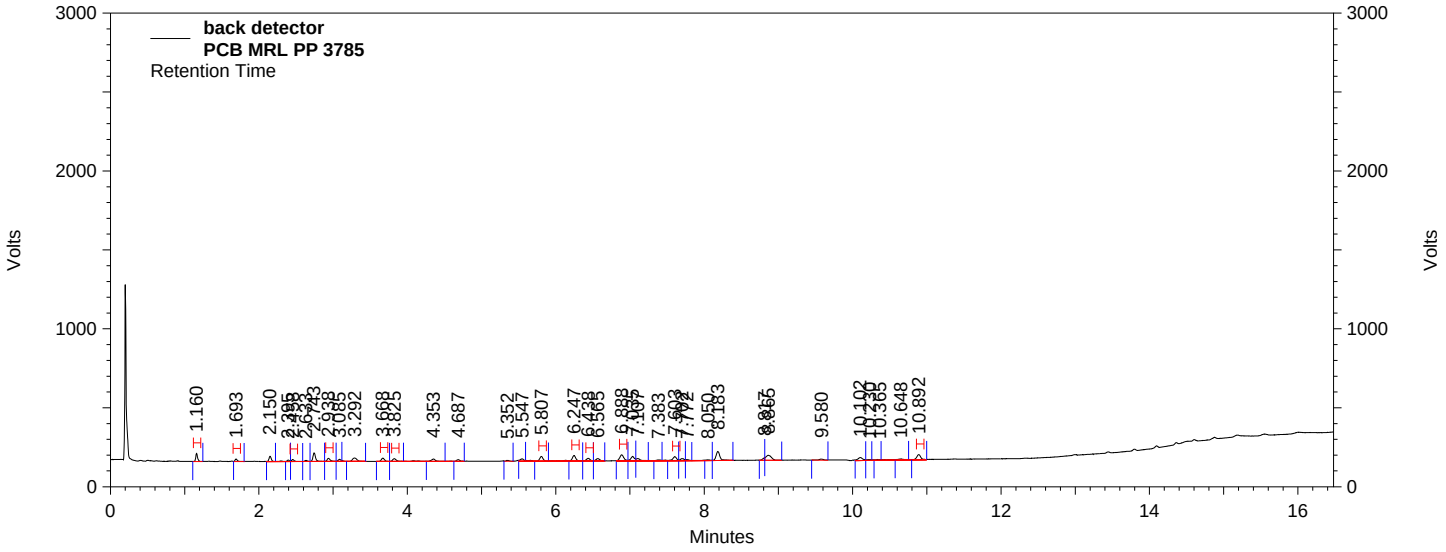
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.968	1948609	5.722
Aroclor 1016 #1	1.242	707510	0.006
Aroclor 1016 #2	1.792	961236	0.006
Aroclor 1016 #3	2.208	1278207	0.006
Aroclor 1016 #4	2.528	754618	0.006
Aroclor 1016 #5	2.965	1171823	0.006
Aroclor 1260 #1	4.857	2221295	0.005
Aroclor 1260 #2	5.318	3183555	0.005
Aroclor 1260 #3	5.805	2918602	0.006
Aroclor 1260 #4	6.562	1735728	0.005
Aroclor 1260 #5	7.662	2162913	0.006
SURRDCBPCB	10.200	2620087	4.992
Aroclor 1016		4873394	0.029
Aroclor 1260		12222093	0.027

PCB Analysis Report (1016/1260) ***(Channel B)***

Data File: **C:\Instarch\Semi7\Data\082113pcb\004.dat**
Method: **C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met**
User: **JJY**
Sample ID: **PCB MRL PP 3785**
Acquired: **Aug 21,2013 10:49:57**
Printed: **Aug 21,2013 11:08:04**

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.160	699916	4.875
Aroclor 1016 #1	1.693	283197	0.005
Aroclor 1016 #2	2.458	229344	0.005
Aroclor 1016 #3	2.938	482037	0.005
Aroclor 1016 #4	3.668	476082	0.005
Aroclor 1016 #5	3.825	466988	0.005
Aroclor 1260 #1	5.807	702979	0.004
Aroclor 1260 #2	6.247	859458	0.005
Aroclor 1260 #3	6.438	431652	0.005
Aroclor 1260 #4	6.888	1119162	0.005
Aroclor 1260 #5	7.603	706226	0.005
SURRDCBPCB	10.892	1010399	5.097
Aroclor 1016		1937648	0.024
Aroclor 1260		3819477	0.023

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\082113pcb.seq
User : JJY
Printed : Aug 21,2013 11:08:07

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\082113pcb\004.dat	PCB MRL PP 3785	Aug 21,2013 11:08:07

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	5.722	4.634	30.000	Passed
Aroclor 1016 #1	0.006	0.006	6.094	30.000	Passed
Aroclor 1016 #2	0.006	0.006	2.912	30.000	Passed
Aroclor 1016 #3	0.006	0.006	4.649	30.000	Passed
Aroclor 1016 #4	0.006	0.006	0.342	30.000	Passed
Aroclor 1016 #5	0.006	0.006	2.515	30.000	Passed
Aroclor 1260 #1	0.006	0.005	9.530	30.000	Passed
Aroclor 1260 #2	0.006	0.005	9.602	30.000	Passed
Aroclor 1260 #3	0.006	0.006	7.341	30.000	Passed
Aroclor 1260 #4	0.006	0.005	12.402	30.000	Passed
Aroclor 1260 #5	0.006	0.006	4.002	30.000	Passed
SURRDCBPCB	6.000	4.992	16.808	30.000	Passed
Aroclor 1016	0.030	0.029	3.165	30.000	Passed
Aroclor 1260	0.030	0.027	8.575	30.000	Passed

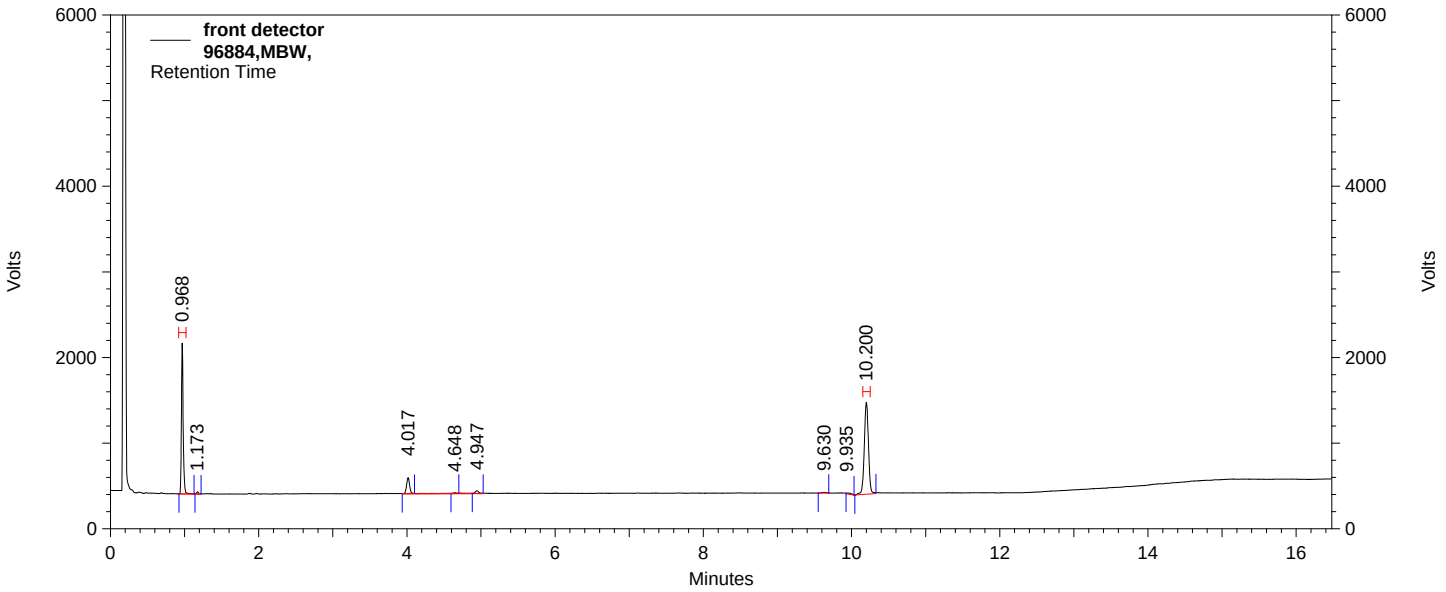
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	4.875	18.754	30.000	Passed
Aroclor 1016 #1	0.006	0.005	24.663	30.000	Passed
Aroclor 1016 #2	0.006	0.005	16.018	30.000	Passed
Aroclor 1016 #3	0.006	0.005	16.622	30.000	Passed
Aroclor 1016 #4	0.006	0.005	23.731	30.000	Passed
Aroclor 1016 #5	0.006	0.005	24.321	30.000	Passed
Aroclor 1260 #1	0.006	0.004	29.358	30.000	Passed
Aroclor 1260 #2	0.006	0.005	23.680	30.000	Passed
Aroclor 1260 #3	0.006	0.005	22.887	30.000	Passed
Aroclor 1260 #4	0.006	0.005	22.647	30.000	Passed
Aroclor 1260 #5	0.006	0.005	23.777	30.000	Passed
SURRDCBPCB	6.000	5.097	15.044	30.000	Passed
Aroclor 1016	0.030	0.024	21.071	30.000	Passed
Aroclor 1260	0.030	0.023	24.470	30.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\082113pcb\005.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: 96884,MBW,
Acquired: Aug 21,2013 11:09:32
Printed: Aug 21,2013 11:30:55

Data Summary: {Data Description}



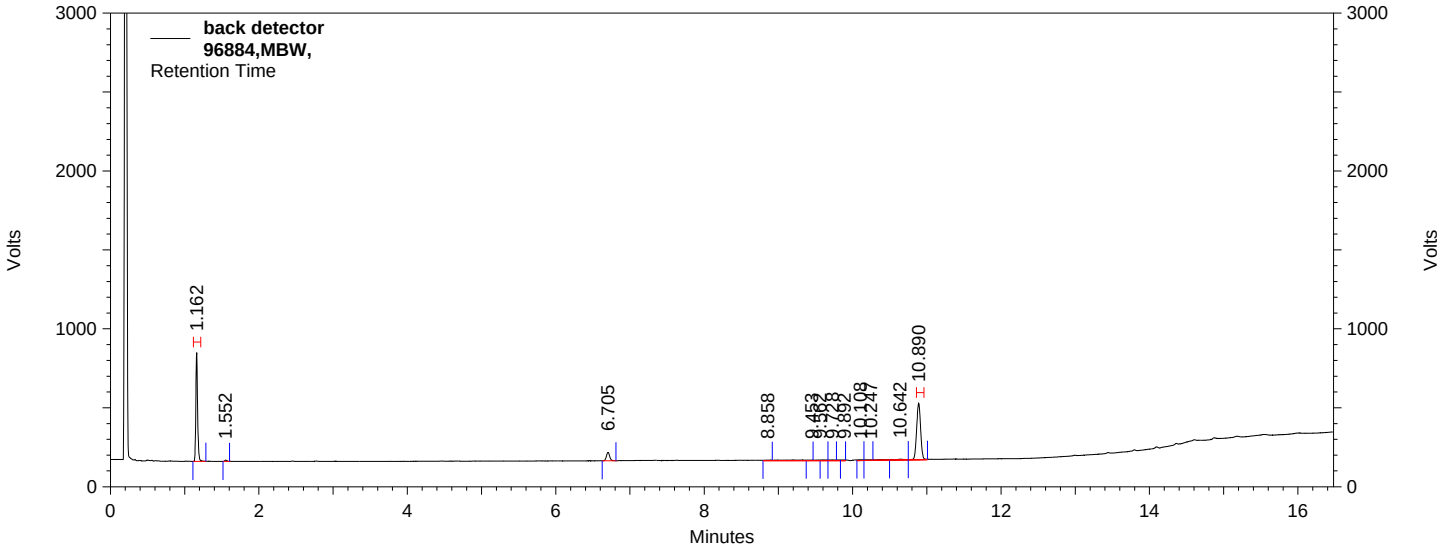
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.968	21947939	73.144
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	10.200	32258054	87.856
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\082113pcb\005.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: 96884,MBW,
Acquired: Aug 21,2013 11:09:32
Printed: Aug 21,2013 11:30:55

Data Summary: {Data Description}



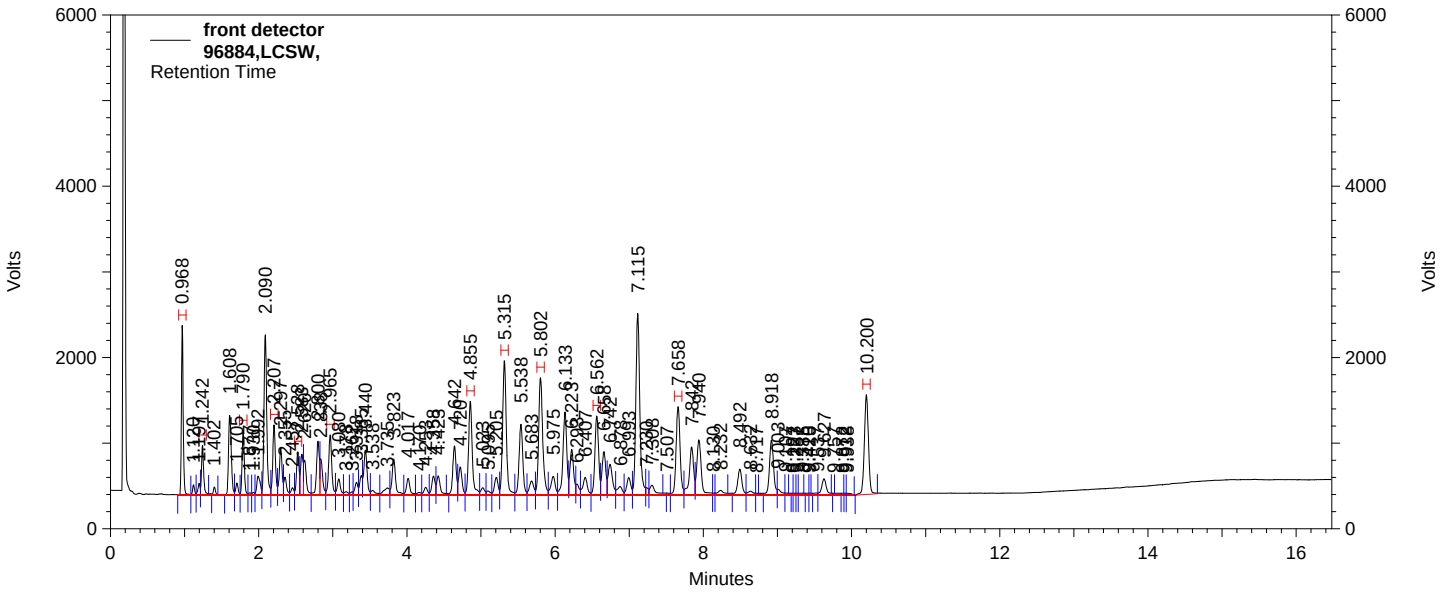
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.162	8697611	67.386
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	10.890	10275079	80.233
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\082113pcb\006.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: 96884,LCSW,
Acquired: Aug 21,2013 11:29:12
Printed: Aug 21,2013 11:45:50

Data Summary: {Data Description}



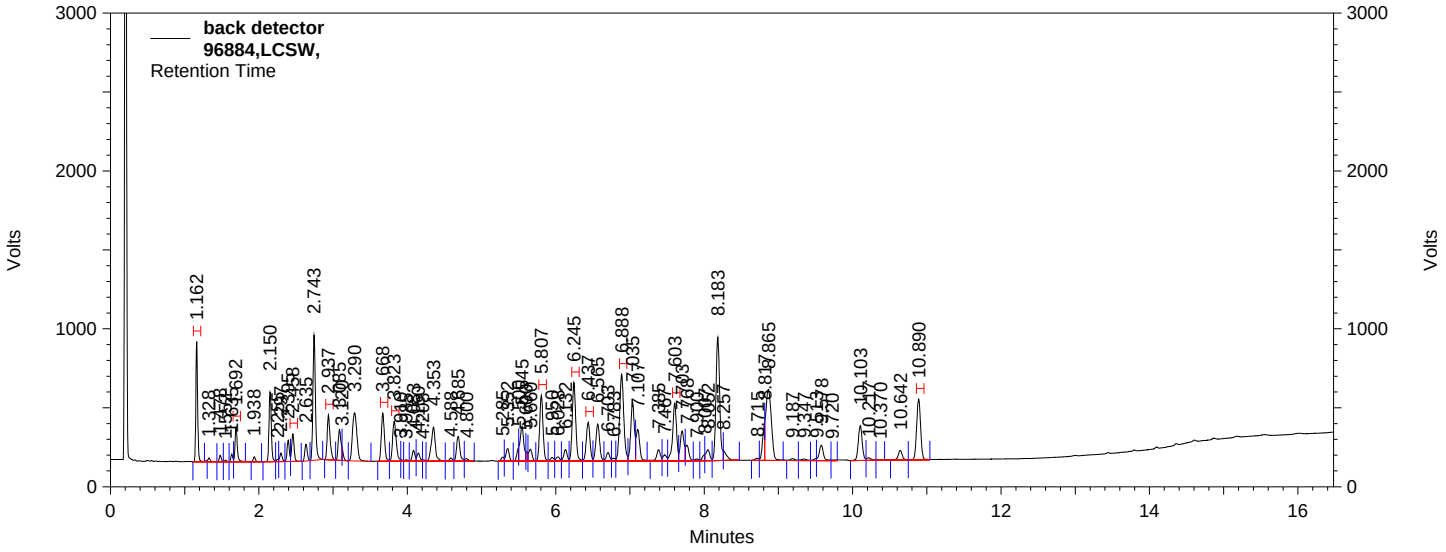
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.968	25026302	83.522
Aroclor 1016 #1	1.242	8827284	0.090
Aroclor 1016 #2	1.790	12045694	0.091
Aroclor 1016 #3	2.207	15784506	0.091
Aroclor 1016 #4	2.528	9304107	0.097
Aroclor 1016 #5	2.965	15826711	0.096
Aroclor 1260 #1	4.855	29127963	0.101
Aroclor 1260 #2	5.315	42097934	0.097
Aroclor 1260 #3	5.802	40160555	0.096
Aroclor 1260 #4	6.562	24490178	0.096
Aroclor 1260 #5	7.658	30037595	0.096
SURRDCBPCB	10.200	34427737	93.922
Aroclor 1016		61788302	0.465
Aroclor 1260		165914225	0.487

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\082113pcb\006.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: 96884,LCSW,
Acquired: Aug 21,2013 11:29:12
Printed: Aug 21,2013 11:45:50

Data Summary: {Data Description}



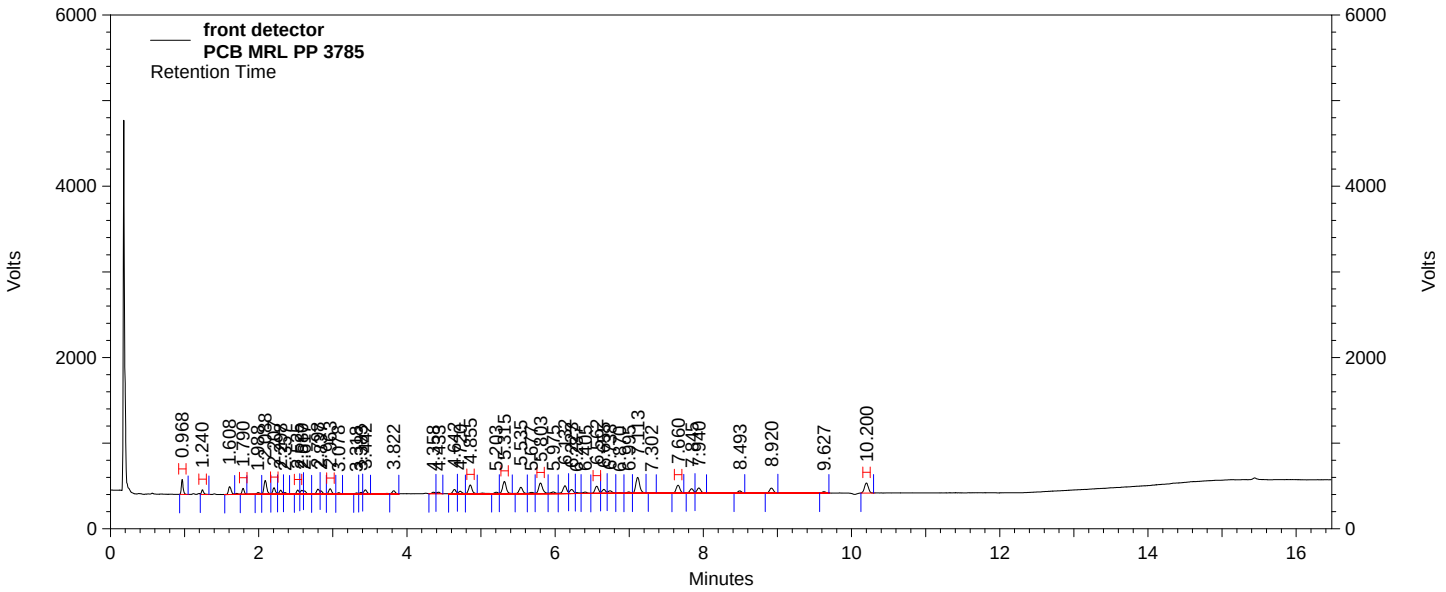
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.162	9664191	74.941
Aroclor 1016 #1	1.692	3533560	0.079
Aroclor 1016 #2	2.458	3044721	0.081
Aroclor 1016 #3	2.937	5884520	0.075
Aroclor 1016 #4	3.668	6842270	0.083
Aroclor 1016 #5	3.823	6669811	0.083
Aroclor 1260 #1	5.807	10109448	0.087
Aroclor 1260 #2	6.245	12453019	0.087
Aroclor 1260 #3	6.437	6487241	0.087
Aroclor 1260 #4	6.888	16433123	0.086
Aroclor 1260 #5	7.603	10153040	0.086
SURRDCBPCB	10.890	11128379	87.153
Aroclor 1016		25974882	0.401
Aroclor 1260		55635871	0.433

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\082113pcb\014.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: PCB MRL PP 3785
Acquired: Aug 21,2013 14:06:37
Printed: Aug 21,2013 14:24:46

Data Summary: {Data Description}



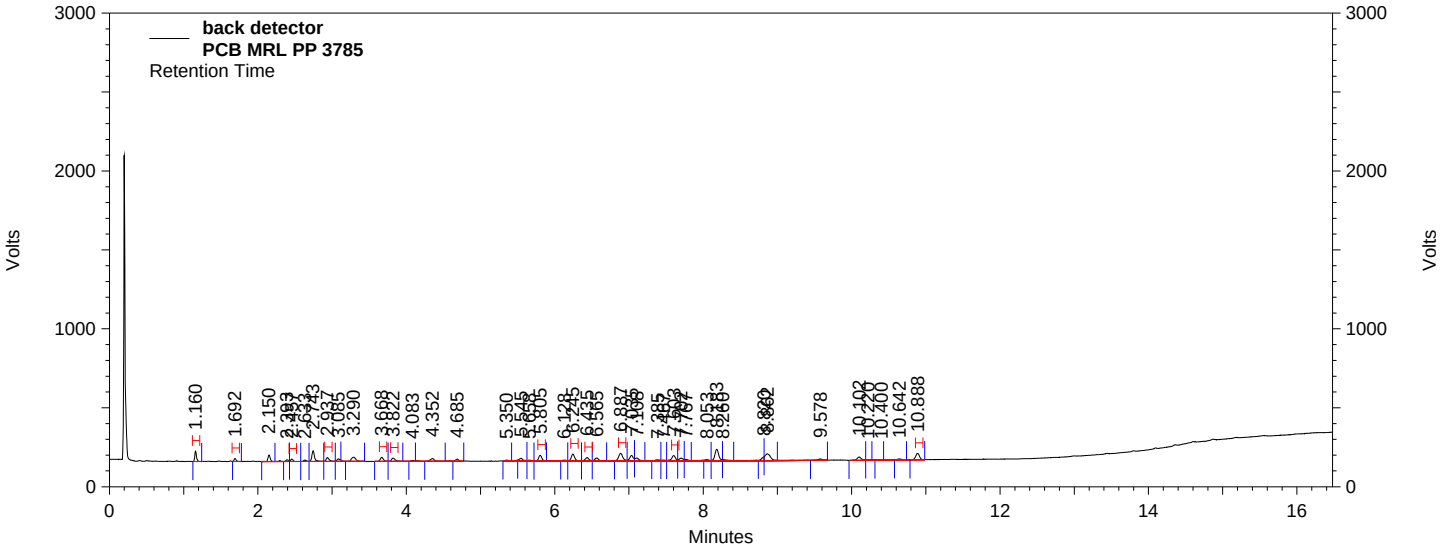
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	0.968	2252763	6.747
Aroclor 1016 #1	1.240	851131	0.007
Aroclor 1016 #2	1.790	1144354	0.007
Aroclor 1016 #3	2.207	1540683	0.007
Aroclor 1016 #4	2.525	890930	0.007
Aroclor 1016 #5	2.963	1427432	0.007
Aroclor 1260 #1	4.855	2520002	0.006
Aroclor 1260 #2	5.315	3743988	0.007
Aroclor 1260 #3	5.803	3545068	0.007
Aroclor 1260 #4	6.562	2195644	0.007
Aroclor 1260 #5	7.660	2697145	0.007
SURRDCBPCB	10.200	3299921	6.892
Aroclor 1016		5854530	0.037
Aroclor 1260		14701847	0.035

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\082113pcb\014.dat
Method: C:\Instarch\Semi7\Methods\Aroclor\050713pcbic\082113pcb.met
User: JJY
Sample ID: PCB MRL PP 3785
Acquired: Aug 21,2013 14:06:37
Printed: Aug 21,2013 14:24:46

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.160	840000	5.970
Aroclor 1016 #1	1.692	316989	0.005
Aroclor 1016 #2	2.457	279729	0.006
Aroclor 1016 #3	2.937	571350	0.006
Aroclor 1016 #4	3.668	569978	0.006
Aroclor 1016 #5	3.822	567413	0.006
Aroclor 1260 #1	5.805	888888	0.006
Aroclor 1260 #2	6.245	1117061	0.006
Aroclor 1260 #3	6.435	578181	0.007
Aroclor 1260 #4	6.887	1471458	0.007
Aroclor 1260 #5	7.603	955909	0.007
SURRDCBPCB	10.888	1187025	6.530
Aroclor 1016		2305459	0.029
Aroclor 1260		5011497	0.032

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\082113pcb.seq
User : JJY
Printed : Aug 21,2013 14:24:47

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\082113pcb\014.dat	PCB MRL PP 3785	Aug 21,2013 14:24:47

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	6.747	12.455	30.000	Passed
Aroclor 1016 #1	0.006	0.007	18.771	30.000	Passed
Aroclor 1016 #2	0.006	0.007	20.626	30.000	Passed
Aroclor 1016 #3	0.006	0.007	20.987	30.000	Passed
Aroclor 1016 #4	0.006	0.007	24.487	30.000	Passed
Aroclor 1016 #5	0.006	0.007	23.700	30.000	Passed
Aroclor 1260 #1	0.006	0.006	8.167	30.000	Passed
Aroclor 1260 #2	0.006	0.007	12.439	30.000	Passed
Aroclor 1260 #3	0.006	0.007	18.153	30.000	Passed
Aroclor 1260 #4	0.006	0.007	18.227	30.000	Passed
Aroclor 1260 #5	0.006	0.007	24.866	30.000	Passed
SURRDCBPCB	6.000	6.892	14.871	30.000	Passed
Aroclor 1016	0.030	0.037	21.714	30.000	Passed
Aroclor 1260	0.030	0.035	16.370	30.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	6.000	5.970	0.505	30.000	Passed
Aroclor 1016 #1	0.006	0.005	11.696	30.000	Passed
Aroclor 1016 #2	0.006	0.006	6.529	30.000	Passed
Aroclor 1016 #3	0.006	0.006	2.596	30.000	Passed
Aroclor 1016 #4	0.006	0.006	4.438	30.000	Passed
Aroclor 1016 #5	0.006	0.006	3.180	30.000	Passed
Aroclor 1260 #1	0.006	0.006	2.107	30.000	Passed
Aroclor 1260 #2	0.006	0.006	6.691	30.000	Passed
Aroclor 1260 #3	0.006	0.007	10.217	30.000	Passed
Aroclor 1260 #4	0.006	0.007	8.656	30.000	Passed
Aroclor 1260 #5	0.006	0.007	12.103	30.000	Passed
SURRDCBPCB	6.000	6.530	8.830	30.000	Passed
Aroclor 1016	0.030	0.029	2.038	30.000	Passed
Aroclor 1260	0.030	0.032	7.112	30.000	Passed

POLYCHLORINATED BIPHENYLS
LOGBOOK
DOCUMENTS

S PCB Analytical Run
96884 on 8/19/2013

Date Analyzed: _____ JJY

Date Entered: _____ 9/4/13

Date Reviewed: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339561		8/15/2013 0930		ECC	RVAAP	PCB QSM		GW	**4**	
		083SB-0023-0001-ER						45505			
	339720						PCB QSM				
				MBW				45505			
	339721						PCB QSM				
				LCSW				45505			

3 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 8/19/2013

Prep Batch **45,505** Date Prepped: 8/19/2013 Prepped By JLH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	339720	MBW		PCB QSM	LIQUID	10		1.00		
	339721	LCSW		PCB QSM	LIQUID	10		1.00		
99335	339561			PCB QSM	GROUND WATER	10		0.98	N	

Notes:_____

Pesticides/PCB Extraction Bench Sheet

(SOP Reference #'s 8081 & 8082)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	45505
Prep Method:	3510
Analyst:	JLH
Date:	8/19/2013
Start Time:	8:00
End Date:	8/19/2013
End Time:	15:00

Analysis Methods
8081 = Pesticides
8082 = PCBs

Matrix: WATER
Balance Used: NA
Ave MW Temp (°C): NA

Reagent Lots>>>

NA_2SO_4	SV0081
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	49542
Acetone	NA
Hexane	43501

Concentration By: JLH/AMA
Concentration Date: 8/19/2013

Microwave Cell #	Sample ID	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)
	339720	(MB)		1.00	10
	339721	(LCS)		1.00	10
	339561			0.98	10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
					10
		(MS) Parent Sample			10
		(MSD)			10

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike, MSD=Matrix Spike Duplicate, Tox=Toxaphene & Chlor=Technical chlordane

MS/MSD/ LCS Spike Amount (ml): 0.5
Spike Concentration (ug/mL): 10
Spike Reference #: PP 3881

Surrogate Spike Amount (ml): 0.5
Surrogate Spike Conc. (ug/mL): 0.5
Surrogate Spike Reference #: PP 3886

Tox/Chlor Spike Amount (ml): NA
Tox/Chlor Spike Conc. (ug/mL): NA

Tox/Chlor Spike Reference: NA

Relinquished to: JJY
Date: 8/19/2013

Reviewed By: JJY
Date: 8/19/2013

Table 4

8082 PCB Analysis Data Review Checklist

Analytical Run #: 96884	**Independent Reviewer: RED**
Sequence Date: 08/21/2013	**Date of Review: 08/21/2013**
Analyst/Data Interpreter: JJY	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the PCB initial calibration (Aroclor 1016/1260) performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <20% RSD, is r^2 >.990, or r > 0.990 for the regression line?	RSD<20%, r^2>0.990, or r>0.990	**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
d. Were there Calibration Factors (CF) established for the remaining Aroclors?		**Yes**		**Yes**		
e. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there second source ICVs for all Aroclors analyzed after the initial calibration and prior to analysis of any samples?		**Yes**		**Yes**		
b. Were the recoveries for the ICVs within program limits?	Second source	**Yes**		**Yes**		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs (Aroclor 1016/1260) analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run? QSM = every ten sample injections.		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Were confirmed Aroclor detects processed using the appropriate Aroclor method?		**Yes**		**Yes**		
d. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 96884

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was the method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Batch <20 samples	**Yes**		**Yes**		
c. Was a LCS analyzed at a frequency one per Prep Batch?	In-house limits or client specified limits	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	No MS/MSD. Insufficient sample volume.
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**NA**		**NA**		
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	No MS/MSD. Insufficient sample volume.
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**NA**		**NA**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**NA**		**NA**		

Additional Comments:

Analytical Run #: 96884

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, florisil, GPC, and sulfur treatment)	Florisil, GPC, Acid, Sulfur Treatments	**Yes**		**Yes**		Acid, sulfur treatments.
f. Was there a hexane injection performed prior to sample analysis?		**Yes**		**Yes**		
g. Was there a priming standard injected prior to sample analysis?		**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transfer to PDF format?		**Yes**		**Yes**		
b. Are all chromatograms stamped with initials and date?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Summary Report

Instrument ID: Semi 7
Data Path: C:\Instarch\Semi7\Sequence\050713pcbic.seq
User ID: JJY
Printed Date: May 07,2013 08:20:26

JJY
5/9/13

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3789	001.dat	050713pcbic.met	May 07,2013 08:03:56	
2	Hexane	002.dat	050713pcbic.met	May 07,2013 08:23:32	
3	PCB ICAL 1 PP 3871	003.dat	050713pcbic.met	May 07,2013 08:43:10	
4	PCB ICAL 2 PP 3872	004.dat	050713pcbic.met	May 07,2013 09:02:45	
5	PCB ICAL 3 PP 3873	005.dat	050713pcbic.met	May 07,2013 09:22:23	
6	PCB ICAL 4 PP 3874	006.dat	050713pcbic.met	May 07,2013 09:42:02	
7	PCB ICAL 5 PP 3875	007.dat	050713pcbic.met	May 07,2013 10:01:40	
8	PCB ICV PP 3778	008.dat	050713pcbic.met	May 07,2013 10:21:19	
9	Hexane	009.dat	050713pcbic.met	May 07,2013 10:40:57	
10	PCB 1221 CF PP 3793	010.dat	1221.met	May 07,2013 11:00:39	
11	PCB 1232 CF PP 3798	011.dat	1232.met	May 07,2013 11:20:21	
12	PCB 1242 CF PP 3803	012.dat	1242.met	May 07,2013 11:40:01	
13	PCB 1248 CF PP 3808	013.dat	1248.met	May 07,2013 11:59:40	
14	PCB 1254 CF PP 3751	014.dat	1254.met	May 07,2013 12:19:21	
15	PCB 1262 CF PP 3813	015.dat	1262.met	May 07,2013 12:39:05	
16	PCB 1268 CF PP 3762	016.dat	1268.met	May 07,2013 12:58:41	
17	Hexane	017.dat	050713pcbic.met	May 07,2013 13:18:17	
18	PCB 1221 ICV PP 3779	018.dat	1221.met	May 07,2013 13:37:57	
19	PCB 1232 ICV PP 3780	019.dat	1232.met	May 07,2013 13:57:31	
20	PCB 1242 ICV PP 3781	020.dat	1242.met	May 07,2013 14:17:10	
21	PCB 1248 ICV PP 3782	021.dat	1248.met	May 07,2013 14:36:45	
22	PCB 1254 ICV PP 3753	022.dat	1254.met	May 07,2013 14:56:20	
23	PCB 1262 ICV PP 3783	023.dat	1262.met	May 07,2013 15:16:01	
24	PCB 1268 ICV PP 3764	024.dat	1268.met	May 07,2013 15:35:37	
25	Hexane	025.dat	050713pcbic.met	May 07,2013 15:55:16	
26	PCB CCV PP 3822	026.dat	050713pcbic.met	May 07,2013 16:14:54	
27	93726,MBTS,	027.dat	050713pcbic.met	May 07,2013 16:34:28	
28	93726,MBTV,	028.dat	050713pcbic.met	May 07,2013 16:54:06	
29	93726,MBW,	029.dat	050713pcbic.met	May 07,2013 17:13:45	
30	93726,LCSW,	030.dat	050713pcbic.met	May 07,2013 17:33:24	
31	93726,296437,	031.dat	050713pcbic.met	May 07,2013 17:53:02	
32	93726,MSW296437,	032.dat	050713pcbic.met	May 07,2013 18:12:41	
33	PCB CCV PP 3822	033.dat	050713pcbic.met	May 07,2013 18:32:21	
34	93670,MBS,	034.dat	050713pcbic.met	May 07,2013 18:52:00	
35	93670,LCSS,	035.dat	050713pcbic.met	May 07,2013 19:11:43	
36	93670,296434,50	036.dat	050713pcbic.met	May 07,2013 19:31:24	
37	Hexane	037.dat	050713pcbic.met	May 07,2013 19:51:02	
38	93670,296436,50	038.dat	050713pcbic.met	May 07,2013 20:10:37	
39	Hexane	039.dat	050713pcbic.met	May 07,2013 20:30:13	
40	93670,296438,50	040.dat	050713pcbic.met	May 07,2013 20:49:50	
41	Hexane	041.dat	050713pcbic.met	May 07,2013 21:09:28	
42	PCB CCV PP 3822	042.dat	050713pcbic.met	May 07,2013 21:29:04	

Summary Report

Instrument ID: Semi 7 (Offline)
Data Path: C:\Instarch\Semi7\Sequence\082113pcb.seq
User ID: JJY
Printed Date: Aug 21,2013 09:43:50

JJY
9/4/13

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3789	001.dat	082113pcb.met	Aug 21,2013 08:47:23	
2	Hexane	002.dat	082113pcb.met	Aug 21,2013 09:06:59	
3	PCB CCV PP 3822	003.dat	082113pcb.met	Aug 21,2013 09:26:39	
4	PCB MRL PP 3785	004.dat	082113pcb.met	Aug 21,2013 10:49:57	
5	96884,MBW,	005.dat	082113pcb.met	Aug 21,2013 11:09:32	
6	96884,LCSW,	006.dat	082113pcb.met	Aug 21,2013 11:29:12	
7	96884,339561,	007.dat	082113pcb.met	Aug 21,2013 11:48:53	
8	96922,MBS,	008.dat	082113pcb.met	Aug 21,2013 12:08:31	
9	96922,LCSS,	009.dat	082113pcb.met	Aug 21,2013 12:28:12	
10	96922,337828,	010.dat	082113pcb.met	Aug 21,2013 12:47:52	
11	96922,MSS337828,	011.dat	082113pcb.met	Aug 21,2013 13:07:32	
12	96922,MSDS337828,	012.dat	082113pcb.met	Aug 21,2013 13:27:11	
13	PCB CCV PP 3822	013.dat	082113pcb.met	Aug 21,2013 13:46:53	
14	PCB MRL PP 3785	014.dat	082113pcb.met	Aug 21,2013 14:06:37	
15	96971,MBS,	015.dat	082113pcb.met	Aug 21,2013 14:26:14	
16	96971,LCSS,	016.dat	082113pcb.met	Aug 21,2013 14:45:52	
17	96971,338375,	017.dat	082113pcb.met	Aug 21,2013 15:05:27	
18	96971,338369,	018.dat	082113pcb.met	Aug 21,2013 15:25:05	
19	96971,MSS338369,	019.dat	082113pcb.met	Aug 21,2013 15:44:44	
20	96971,MSDS338369,	020.dat	082113pcb.met	Aug 21,2013 16:04:21	
21	PCB CCV PP 3822	021.dat	082113pcb.met	Aug 21,2013 16:23:59	
22	PCB MRL PP 3785	022.dat	082113pcb.met	Aug 21,2013 16:43:36	
23	96924,MBS,	023.dat	082113pcb.met	Aug 21,2013 17:03:15	
24	96924,LCSS,	024.dat	082113pcb.met	Aug 21,2013 17:22:54	
25	96924,338707,	025.dat	082113pcb.met	Aug 21,2013 17:42:34	
26	96924,MSS338707,	026.dat	082113pcb.met	Aug 21,2013 18:02:14	
27	96924,MSDS338707,	027.dat	082113pcb.met	Aug 21,2013 18:21:52	
28	PCB CCV PP 3822	028.dat	082113pcb.met	Aug 21,2013 18:41:34	

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3746	1254 Intermed standard	Hexane JT Baker lot 17861	07-Feb-13 JJY 14-Jun-13	S2597	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2608B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3747	1254 2nd Srce			S2603	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2608B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3748	1254 ICAL 1			PP 3746	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3749	1254 ICAL 2			PP 3746	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3750	1254 ICAL 3			PP 3746	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3751	1254 ICAL 4			PP 3746	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3752	1254 ICAL 5			PP 3746	10	ug/mL	1.000	10.0	1.00	ug/ml
PP 3753	1254 ICV			PP 3747	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3754	1254 CCV			PP 3746	10	ug/mL	0.500	10.0	0.50	ug/ml

JJY 2/7/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3755	Pest CCV	Hexane JT Baker	15-Feb-13 AMA 11-Mar-13	PP 3655	2.0	ug/mL	0.200	10.0	0.040	ug/ml
PP 3756	Tox/chlor CCV	lot 17861		PP3657	10.0	ug/mL	0.250	10.0	0.25	ug/ml

JJY 2/15/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3757	1268 Intermed standard	Hexane JT Baker lot 17861	~~07-Feb-13~~ JJY 14-Jun-13 15-Feb-13 JJY 2/15/13	S2611	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2608B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3758	1268 2nd Srce			S2612	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2608B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3759	1268 ICAL 1			PP 3757	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3760	1268 ICAL 2			PP 3757	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3761	1268 ICAL 3			PP 3757	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3762	1268 ICAL 4			PP 3757	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3763	1268 ICAL 5			PP 3757	10	ug/mL	1.000	10.0	1.00	ug/ml
PP 3764	1268 ICV			PP 3758	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3765	1268 CCV			PP 3757	10	ug/mL	0.500	10.0	0.50	ug/ml

JJY 2/15/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3766	1016/1260 Intermed standard	Hexane JT Baker lot 23181	07-Mar-13 AMA 07-Sep-13	S2744	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3767	1221 Intermed standard		14-Jun-13	S2593	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml

AM. 03/07/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3768	1232 Intermed standard	Hexane JT Baker lot 23181	07-Mar-13 AMA 14-Jun-13	S2594	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3769	1242 Intermed standard			S2595	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3770	1248 Intermed standard			S2596	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3771	1262 Intermed standard			S2609	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3772	1016/1260 2nd Srce		07-Sep-13	S2773	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3773	1221 2nd Srce		14-Jun-13	S2599	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3774	1232 2nd Srce			S2600	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3775	1242 2nd Srce			S2601	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3776	1248 2nd Srce			S2602	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml
PP 3777	1262 2nd Srce			S2610	1000	ug/mL	0.100	10.0	10.0	ug/ml
				S2766B	200	ug/mL	0.025	10.0	0.5	ug/ml

AMA 03/07/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3778	PCB ICV	Hexane	07-Mar-13 JJY 07-Sep-13	PP3772	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3779	1221 ICV	JT Baker	14-Jun-13	PP3773	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3780	1232 ICV	lot 23181		PP3774	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3781	1242 ICV			PP3775	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3782	1248 ICV			PP3776	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3783	1262 ICV			PP3777	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3784	PCB LL ICAL 1		JJY 07-Sep-13	PP3766	10	ug/mL	0.020	10.0	0.02	ug/ml
PP 3785	PCB ICAL 1		3-7-13	PP3766	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3786	PCB ICAL 2			PP3766	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3787	PCB ICAL 3			PP3766	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3788	PCB ICAL 4			PP3766	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3789	PCB ICAL 5			PP3766	10	ug/mL	1.000	10.0	1.00	ug/ml

JJY 3/7/13

3/7/13 JJY

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3790	1221 ICAL 1	Hexane	07-Mar-13 JJY 14-Jun-13	PP 3767	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3791	1221 ICAL 2	JT Baker		PP 3767	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3792	1221 ICAL 3	lot 23181		PP 3767	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3793	1221 ICAL 4			PP 3767	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3794	1221 ICAL 5			PP 3767	10	ug/mL	1.000	10.0	1.00	ug/ml
PP 3795	1232 ICAL 1			PP 3768	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3796	1232 ICAL 2			PP 3768	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3797	1232 ICAL 3			PP 3768	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3798	1232 ICAL 4			PP 3768	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3799	1232 ICAL 5			PP 3768	10	ug/mL	1.000	10.0	1.00	ug/ml
PP 3800	1242 ICAL 1			PP 3769	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3801	1242 ICAL 2			PP 3769	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3802	1242 ICAL 3			PP 3769	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3803	1242 ICAL 4			PP 3769	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3804	1242 ICAL 5			PP 3769	10	ug/mL	1.000	10.0	1.00	ug/ml
PP 3805	1248 ICAL 1			PP 3770	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3806	1248 ICAL 2			PP 3770	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3807	1248 ICAL 3			PP 3770	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3808	1248 ICAL 4			PP 3770	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3809	1248 ICAL 5			PP 3770	10	ug/mL	1.000	10.0	1.00	ug/ml
PP 3810	1262 ICAL 1			PP 3771	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3811	1262 ICAL 2			PP 3771	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3812	1262 ICAL 3			PP 3771	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3813	1262 ICAL 4			PP 3771	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3814	1262 ICAL 5			PP 3771	10	ug/mL	1.000	10.0	1.00	ug/ml

JJY 3/7/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3815	1221 LL ICAL 1	Hexane	07-Mar-13 JJY 14-Jun-13	PP3767	10	ug/mL	0.020	10.0	0.02	ug/ml
PP 3816	1232 LL ICAL 1	JT Baker		PP3768	10	ug/mL	0.020	10.0	0.02	ug/ml
PP 3817	1242 LL ICAL 1	lot 23181		PP3769	10	ug/mL	0.020	10.0	0.02	ug/ml
PP 3818	1248 LL ICAL 1			PP3770	10	ug/mL	0.020	10.0	0.02	ug/ml
PP 3819	1262 LL ICAL 1			PP3771	10	ug/mL	0.020	10.0	0.02	ug/ml

JJY 3/7/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3820	1254 LL ICAL 1	Hexane	08-Mar-13 JJY 14-Jun-13	PP3746	10	ug/mL	0.020	10.0	0.02	ug/ml
PP 3821	1268 LL ICAL 1	JT Baker		PP3757	10	ug/mL	0.020	10.0	0.02	ug/ml
		lot 23181	07-Sep-13							
PP 3822	PCB CCV			PP3766	10	ug/mL	0.500	10.0	0.50	ug/ml

JJY 3/8/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3857	DDTs ICAL 1	Hexane	22-Mar-13 JJY 24-Jul-13	PP3734	2.0	ug/mL	0.005	10.0	0.001	ug/ml
PP 3858	DDTs ICAL 2	JT Baker		PP3734	2.0	ug/mL	0.025	10.0	0.005	ug/ml
PP 3859	DDTs ICAL 3	lot 23181		PP3734	2.0	ug/mL	0.050	10.0	0.010	ug/ml
PP 3860	DDTs ICAL 4			PP3734	2.0	ug/mL	0.100	10.0	0.020	ug/ml
PP 3861	DDTs ICAL 5			PP3734	2.0	ug/mL	0.200	10.0	0.040	ug/ml
PP 3862	DDTs ICAL 6			PP3734	2.0	ug/mL	0.300	10.0	0.060	ug/ml
PP 3863	DDTs ICV 1			PP3735	2.0	ug/mL	0.100	10.0	0.020	ug/ml
PP 3864	DDTs ICV 2			PP3735	2.0	ug/mL	0.200	10.0	0.040	ug/ml
PP 3865	DDTs CCV			PP3734	2.0	ug/mL	0.100	10.0	0.020	ug/ml

JJY 3/22/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3866	Pest/PCB Surrogates	Acetone	25-Mar-13 JJY 25-Sep-13	S2766A	200	ug/mL	0.250	100.0	0.50	ug/ml
PP 3867	Pest/PCB Surrogates	JT Baker lot J14E52		S2766A	200	ug/mL	0.250	100.0	0.50	ug/ml
PP 3868	Pest/PCB Surrogates			S2766A	200	ug/mL	0.250	100.0	0.50	ug/ml
PP 3869	Pest/PCB Surrogates			S2766A	200	ug/mL	0.250	100.0	0.50	ug/ml
PP 3870	FM BP-6 Spike			S2785	100	ug/mL	1.000	50.0	2.00	ug/ml

JJY 3/25/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3871	PCB ICAL 1	Hexane	01-May-13 JJY 07-Sep-13	PP3766	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3872	PCB ICAL 2	JT Baker		PP3766	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3873	PCB ICAL 3	lot 23181		PP3766	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3874	PCB ICAL 4			PP3766	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3875	PCB ICAL 5			PP3766	10	ug/mL	1.000	10.0	1.00	ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3876	1242 ICAL 1	Hexane	01-May-13 JJY 07-Sep-13	PP3769	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3877	1242 ICAL 2	JT Baker		PP3769	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3878	1242 ICAL 3	lot 23181		PP3769	10	ug/mL	0.200	10.0	0.20	ug/ml
PP 3879	1242 ICAL 4			PP3769	10	ug/mL	0.500	10.0	0.50	ug/ml
PP 3880	1242 ICAL 5			PP3769	10	ug/mL	1.000	10.0	1.00	ug/ml

JJY 5/1/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3881	PCB Spike	Acetone JT Baker lot K48E17	06-May-13 JJY 06-Nov-13	S2744 1000 ug/mL	0.500	50.0	10.00 ug/ml

JJY 5.16.13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3882	HBB Stock	Hexane JT Baker lot 21949	06-Jun-13 JJY 06-Dec-13	S2637 2000 ug/mL	0.125	10.0	25.0 ug/ml
PP 3883	HBB/PBB Spike	Acetone JT Baker lot K48E17		S2744B 100 ug/mL PP3882 25 ug/mL	0.200 0.200	10.0 10.0	2.0 ug/ml 0.5 ug/ml

JJY 6/6/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3884	Pest/PCB Surrogates	Acetone JT Baker lot K48E17	14-Jun-13 JJY 14-Dec-13	S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3885	Pest/PCB Surrogates			S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3886	Pest/PCB Surrogates			S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3887	Pest/PCB Surrogates			S2819A 200 ug/mL	0.250	100.0	0.50 ug/ml
PP 3888	Pest/PCB Surrogates			S2819A 200 ug/mL	0.125	50.0	0.50 ug/ml

JJY 6/14/13

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3889	DDTs Spike	Acetone JT Baker lot K48E17	20-Jun-13 JJY 20-Dec-13	S2625 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2626 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2627 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2628 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2629 1000 ug/mL	0.040	50.0	0.80 ug/ml
				S2630 1000 ug/mL	0.040	50.0	0.80 ug/ml

6/20/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

NITROAROMATICS ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1B

EXPLOSIVES ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	0.500 (g/L)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	5.0 (mL)	Date/Time Prepared:	08/22/2013 / 9:00
Analytical Method:	EPA 8330B	Analytical Prep Batch #	45570
Analytical Run #:	97103	Dilution Factor:	1.00
Date & Time Analyzed:	08/28/2013 / 11:17	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	042513expic-pri	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.60	U	0.23	0.60	0.80	0.80
99-65-0	1,3-Dinitrobenzene	0.60	U	0.20	0.60	1.0	1.0
118-96-7	2,4,6-Trinitrotoluene	0.60	U	0.22	0.60	1.0	1.0
121-14-2	2,4-Dinitrotoluene	0.60	U	0.30	0.60	2.0	2.0
606-20-2	2,6-Dinitrotoluene	0.60	U	0.24	0.60	1.0	1.0
35572-78-2	2-Amino-4,6-dinitrotoluene	0.60	U	0.24	0.60	1.0	1.0
88-72-2	2-Nitrotoluene	0.60	U	0.40	0.60	2.0	2.0
618-87-1	3,5-Dinitroaniline	0.60	U	0.23	0.60	1.0	1.0
99-08-1	3-Nitrotoluene	0.60	U	0.23	0.60	0.80	0.80
19406-51-0	4-Amino-2,6-dinitrotoluene	0.60	U	0.28	0.60	1.0	1.0
99-99-0	4-Nitrotoluene	0.60	U	0.22	0.60	1.0	1.0
2691-41-0	HMX	0.60	U	0.25	0.60	1.0	1.0
98-95-3	Nitrobenzene	0.60	U	0.22	0.60	0.80	0.80
55-63-0	Nitroglycerin	2.4	U	2.2	2.4	8.0	8.0
78-11-5	PETN	3.2	U	3.0	3.2	12	12
121-82-4	RDX	0.60	U	0.18	0.60	1.0	1.0
479-45-8	Tetryl	0.60	U	0.21	0.60	1.0	1.0

CT LABORATORIES
delivering more than data from your environmental analyses

1B

EXPLOSIVES ANALYSIS

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	GROUND WATER	SDG No.:	99335
Sample wt/vol:	0.005 (g/L)	CTL Sample ID:	339561
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	5.0 (mL)	Date/Time Prepared:	08/22/2013 / 9:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	45571
Analytical Run #:	97104	Dilution Factor:	1.00
Date & Time Analyzed:	08/28/2013 / 15:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	Methods	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	100	U	32	100	120	120

CT LABORATORIES
delivering more than data from your environmental analyses

1B-2

EXPLOSIVES ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	0.500 (g/L)	CTL Sample ID:	341681
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	5.0 (mL)	Date/Time Prepared:	08/22/2013 / 9:00
Analytical Method:	EPA 8330B	Analytical Prep Batch #	45570
Analytical Run #:	97103	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	042513expic-pri	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
99-35-4	1,3,5-Trinitrobenzene	08/28/2013	10:40	0.23	U	0.23	0.80	***0.40***
99-65-0	1,3-Dinitrobenzene	08/28/2013	10:40	0.20	U	0.20	1.00	***0.50***
118-96-7	2,4,6-Trinitrotoluene	08/28/2013	10:40	0.22	U	0.22	1.00	***0.50***
121-14-2	2,4-Dinitrotoluene	08/28/2013	10:40	0.3	U	0.3	2.0	***1.00***
606-20-2	2,6-Dinitrotoluene	08/28/2013	10:40	0.24	U	0.24	1.00	***0.50***
35572-78-2	2-Amino-4,6-dinitrotoluene	08/28/2013	10:40	0.24	U	0.24	1.00	***0.50***
88-72-2	2-Nitrotoluene	08/28/2013	10:40	0.4	U	0.4	2.0	***1.00***
618-87-1	3,5-Dinitroaniline	08/28/2013	10:40	0.23	U	0.23	1.00	***0.50***
99-08-1	3-Nitrotoluene	08/28/2013	10:40	0.23	U	0.23	0.80	***0.40***
19406-51-0	4-Amino-2,6-dinitrotoluene	08/28/2013	10:40	0.28	U	0.28	1.00	***0.50***
99-99-0	4-Nitrotoluene	08/28/2013	10:40	0.22	U	0.22	1.00	***0.50***
2691-41-0	HMX	08/28/2013	10:40	0.25	U	0.25	1.00	***0.50***
98-95-3	Nitrobenzene	08/28/2013	10:40	0.22	U	0.22	0.80	***0.40***
55-63-0	Nitroglycerin	08/28/2013	10:40	2.2	U	2.2	8.0	***4.0***
78-11-5	PETN	08/28/2013	10:40	3	U	3	12	***6***
121-82-4	RDX	08/28/2013	10:40	0.18	U	0.18	1.00	***0.50***
479-45-8	Tetryl	08/28/2013	10:40	0.21	U	0.21	1.00	***0.50***

CT LABORATORIES
delivering more than data from your environmental analyses

1B-2

EXPLOSIVES ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:		SDG No.:	99335
Sample wt/vol:	0.005 (g/L)	CTL Sample ID:	341684
% Solids:		Date Received:	08/16/2013
Conc. Extract Vol:	5.0 (mL)	Date/Time Prepared:	08/22/2013 / 9:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	45571
Analytical Run #:	97104	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	Methods	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
556-88-7	Nitroguanidine	08/28/2013	15:14	32	U	32	120	***60***

CT LABORATORIES
delivering more than data from your environmental analyses

2G-2

WATER EXPLOSIVES SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8330	SDG:	99335
Analytical Run #:	97104	ICAL Calibration #:	Methods

CTLab #	311330				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	95	50	150	

CTLab #	339561				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	95	50	150	

CTLab #	341684	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	89.0	50	150	

CTLab #	341685	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	92.1	50	150	

CTLab #	341966				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	95	50	150	

CT LABORATORIES
delivering more than data from your environmental analyses

2G-2

WATER EXPLOSIVES SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Analytical Method:	EPA 8330B	SDG:	99335
Analytical Run #:	97103	ICAL Calibration #:	042513expic-pri

CTLab #	311330				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100		65	134	

CTLab #	339561				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	120	65	134	

CTLab #	341681	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene		128	65	134	

CTLab #	341682	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	93.3	65	134	

CTLab #	341966				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	157	65	134	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

3G

Sample Description

LCS

WATER EXPLOSIVES LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: ECC-RVAAP

Sample No.: 341682 SDG No.: 99335

Analytical Method: EPA 8330B Concentration Units: ug/L

Analytical Run #: 97103 Sample No.: 341682 Parent Sample No.: 0

Analytical Prep Batch #: 45570 Analytical Preparation Date/Time: 08/22/2013 9:00

ICAL Calibration #: 042513expic-pri

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,3,5-Trinitrobenzene	08/28/2013	10:59	64-127	9.68		10.0	97
1,3-Dinitrobenzene	08/28/2013	10:59	64-128	8.38		10.0	84
2,4,6-Trinitrotoluene	08/28/2013	10:59	52-130	9.22		10.0	92
2,4-Dinitrotoluene	08/28/2013	10:59	62-133	10.3		10.0	103
2,6-Dinitrotoluene	08/28/2013	10:59	58-131	9.56		10.0	96
2-Amino-4,6-dinitrotoluene	08/28/2013	10:59	69-120	9.50		10.0	95
2-Nitrotoluene	08/28/2013	10:59	53-125	8.16		10.0	82
3,5-Dinitroaniline	08/28/2013	10:59	70-130	10.6		10.0	106
3-Nitrotoluene	08/28/2013	10:59	57-125	9.06		10.0	91
4-Amino-2,6-dinitrotoluene	08/28/2013	10:59	63-129	8.56		10.0	86
4-Nitrotoluene	08/28/2013	10:59	58-128	8.38		10.0	84
HMX	08/28/2013	10:59	66-120	10.3		10.0	103
Nitrobenzene	08/28/2013	10:59	60-126	8.22		10.0	82
Nitroglycerin	08/28/2013	10:59	66-129	34.6		40.0	86
PETN	08/28/2013	10:59	64-133	40.4		40.0	101
RDX	08/28/2013	10:59	69-122	9.96		10.0	100
Tetryl	08/28/2013	10:59	54-124	9.52		10.0	95

Spike Recovery: 0 out of 17 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3G

Sample Description

LCS

WATER EXPLOSIVES LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract ECC-RVAAP

Sample No.: 341685 SDG No.: 99335

Analytical Method: EPA 8330 Concentration Units: ug/L

Analytical Run #: 97104 Sample No.: 341685 Parent Sample No.: 0

Analytical Prep Batch #: 45571 Analytical Preparation Date/Time: 08/22/2013 9:00

ICAL Calibration #: Methods

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Nitroguanidine	08/28/2013 15:22	65-114	786		1000	79

Spike Recovery: 0 out of 1 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

4B-1

EXPLOSIVES METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	341681	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/22/2013
Date Analyzed:	08/28/2013	Time Analyzed:	10:40
Analytical Method:	EPA 8330B	Extraction Method:	SW3535
Analytical Run #:	97103	Extraction Batch #:	45570
		ICAL Calibration #:	042513expic-pri

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	LQCKW	341683	
2	MBW	341681	08/28/2013 10:40
3	LCSW	341682	08/28/2013 10:59
4	083SB-0023-0001-ER	339561	08/28/2013 11:17

CT LABORATORIES
delivering more than data from your environmental analyses

4B-1

EXPLOSIVES METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Sample ID:	341684	SDG No.:	99335
Matrix:	LIQUID	Date Extracted:	08/22/2013
Date Analyzed:	08/28/2013	Time Analyzed:	15:14
Analytical Method:	EPA 8330	Extraction Method:	SW8330
Analytical Run #:	97104	Extraction Batch #:	45571
		ICAL Calibration #:	Methods

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBW	341684	08/28/2013 15:14
2	LCSW	341685	08/28/2013 15:22
3	083SB-0023-0001-ER	339561	08/28/2013 15:31
4	LQCKW	341687	08/28/2013 15:55

NITROAROMATICS ANALYSIS
SAMPLE DATA
DOCUMENTS

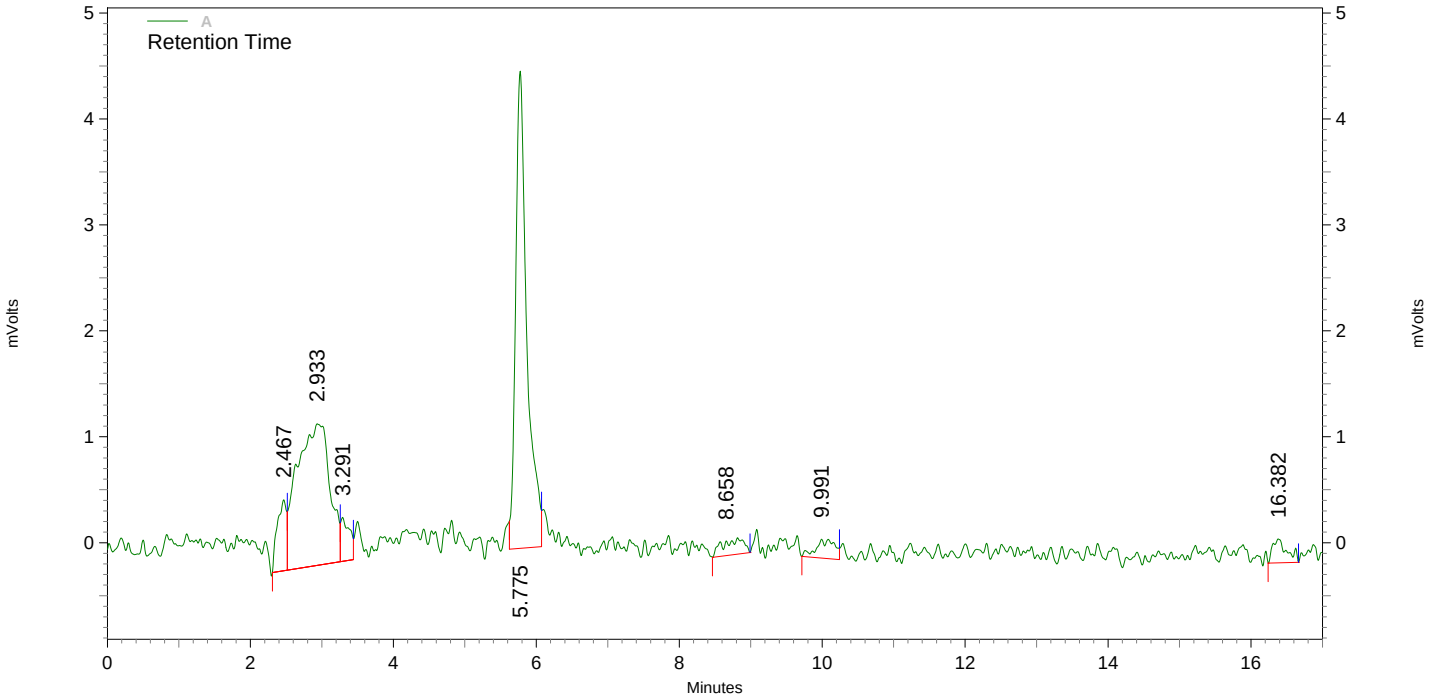
After Manual Integration

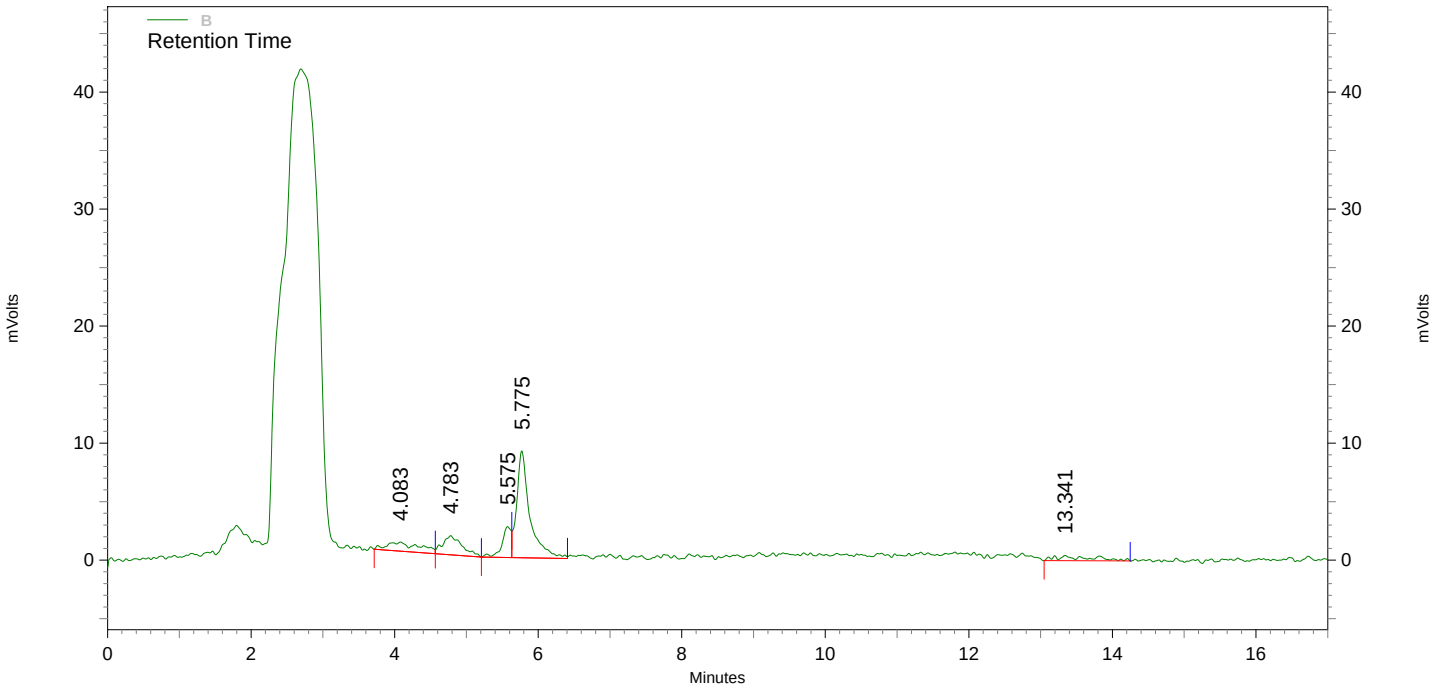
RED 09/06/2013

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\007.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 97103,339561,
Acquired: Aug 28, 2013 11:17:29
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013

JJY 08/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.291	3522	**0.000**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.775	49130	**120.424**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT	8.658	3081	**0.000**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

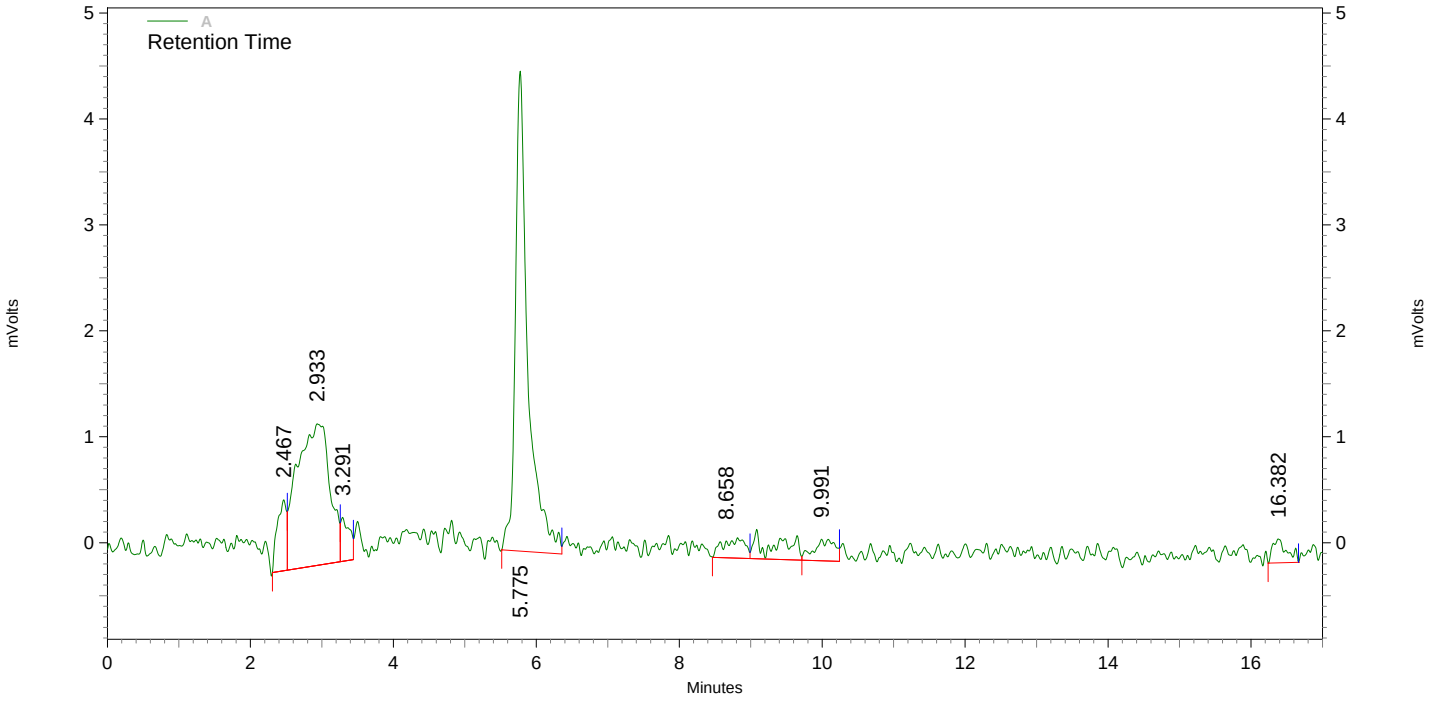
B Results

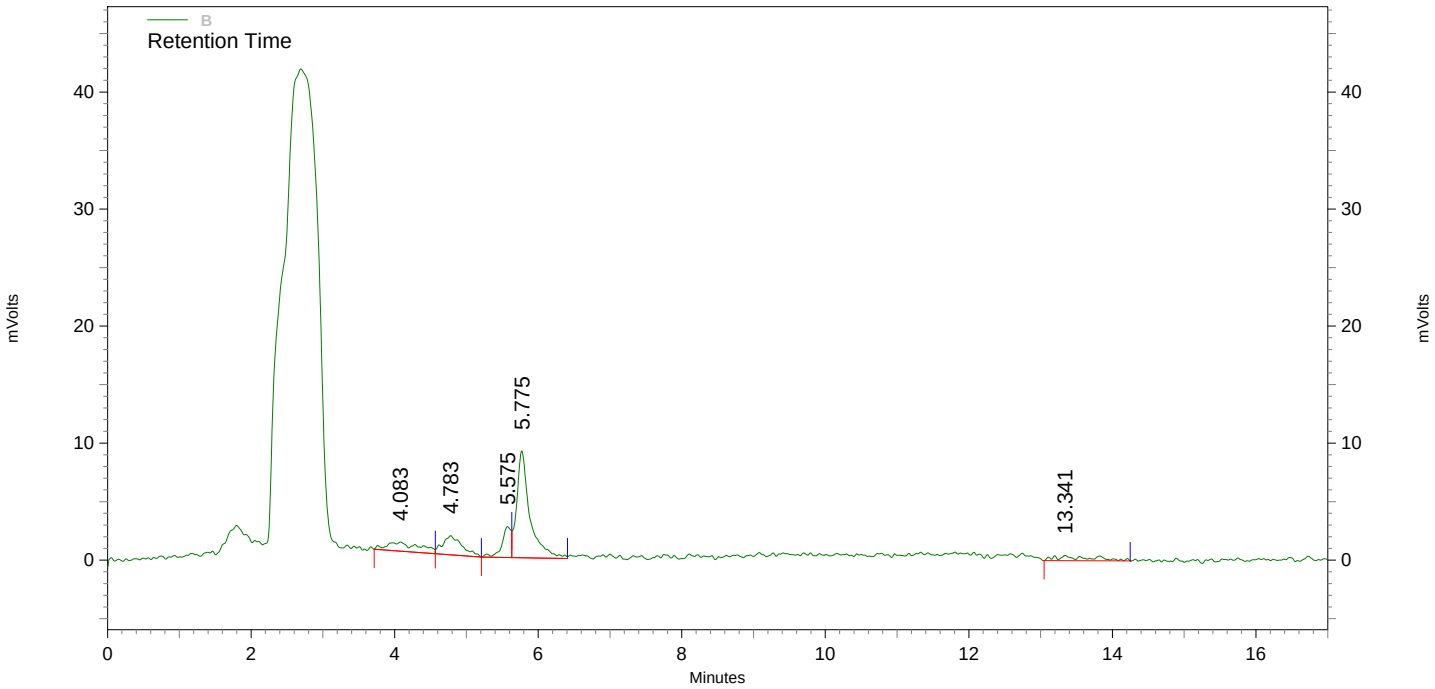
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\007.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 97103,339561,
Acquired: Aug 28, 2013 11:17:29
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.291	3522	**0.000**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.775	55005	**135.740**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT	8.658	3983	**0.005**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

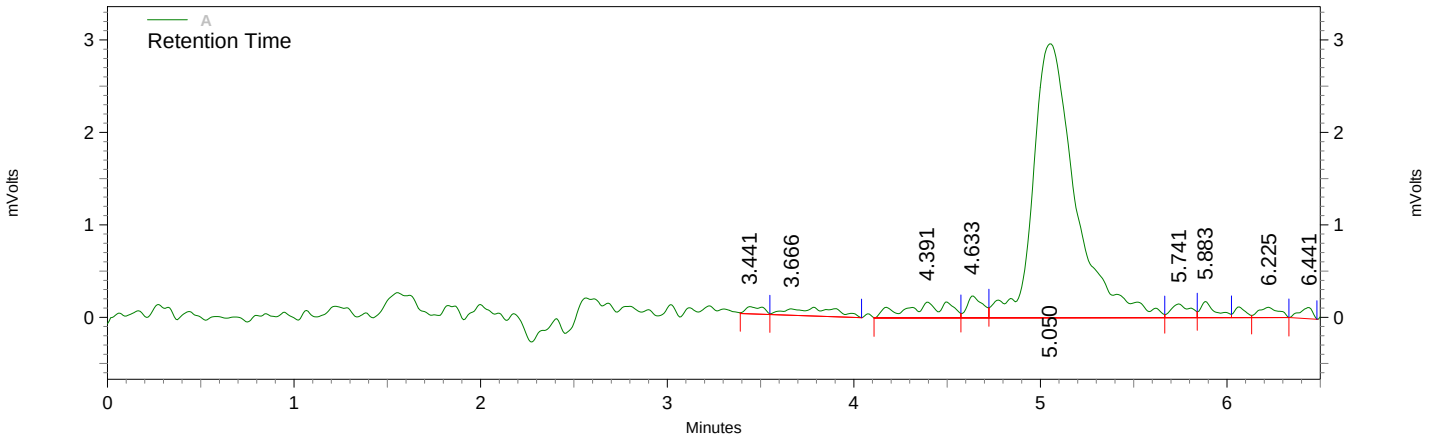
B Results

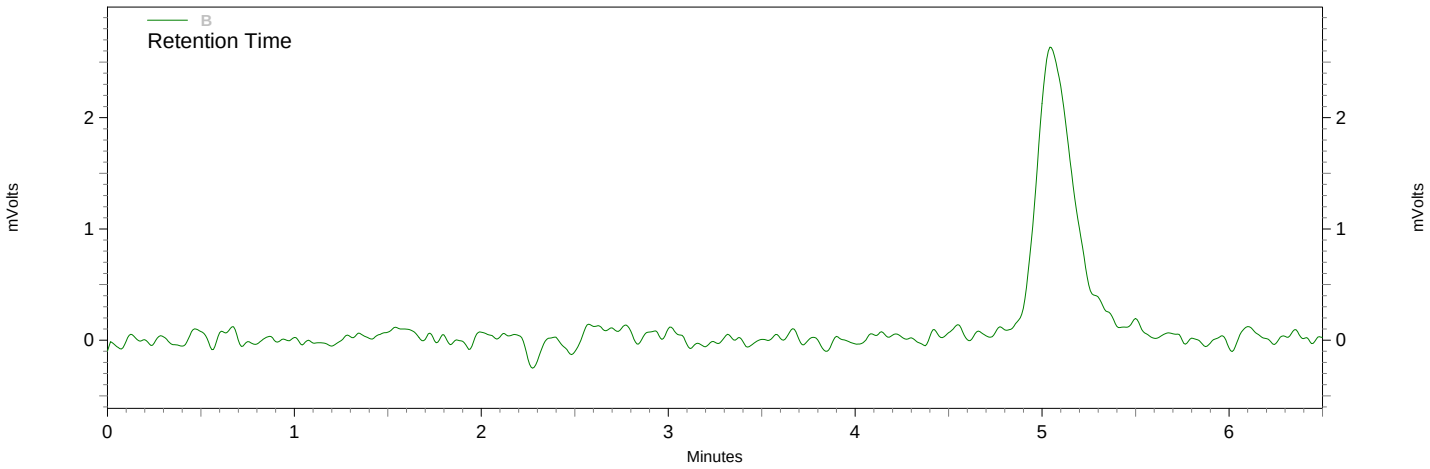
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

RED
09/06/2013

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\043.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: 97104,339561,
Acquired: Aug 28, 2013 15:31:07
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.050	46468	**94.862**

B Results

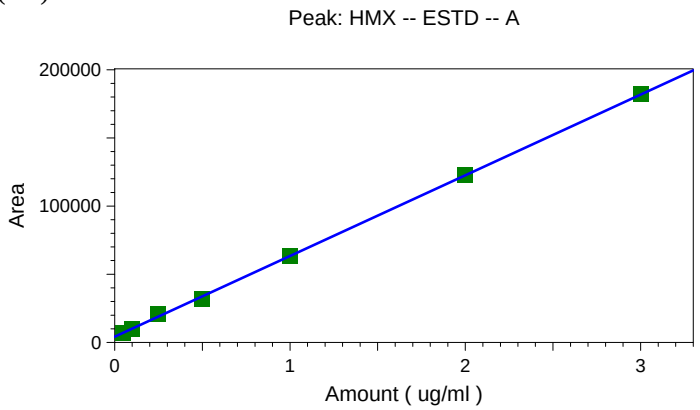
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**

NITROAROMATICS ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:27
User: RED
Instrument: HPLC 2 (Offline)

HMX (A)
Average RF: 81920.9 RF StDev: 30056.1 RF %RSD: 36.6891
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 59192.0x + 4198.58
Goodness of fit (r^2): 0.999703



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	7060	10071	20629	31640	63613
RF	141200	100710	82516	63280	63613
Last Area					
Residual	0.00165871	0.00079036	-0.0275783	0.0364	-0.0037573
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	7060	10071	20629	31640	63613
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				31640	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:27
User: RED
Instrument: HPLC 2 (Offline)

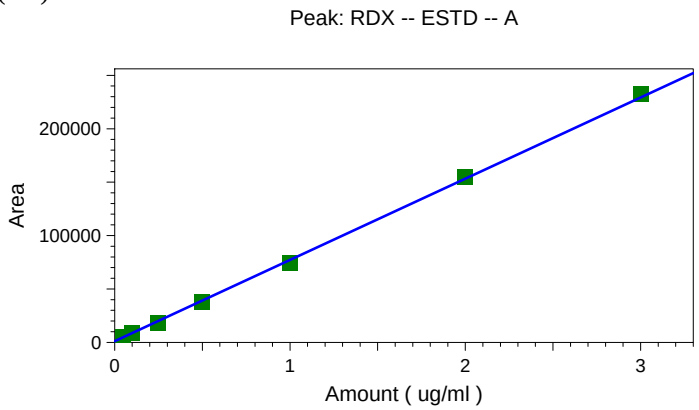
Rep 2 Data File			C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	
Rep 2 Sample ID			8330 Pt. 4 EXP 5005	
Rep 2 Calib. Time			Apr 26, 2013 07:36:23	

	Level 6	Level 7
Amount	2	3
Area	122599	182484
RF	61299.5	60828
Last Area		
Residual	-0.000276825	-0.0119842
Rep StDev		
Rep %RSD		
Rep 1 Area	122599	182484
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:35
User: RED
Instrument: HPLC 2 (Offline)

RDX (A)
Average RF: 82583.9 RF StDev: 12461.5 RF %RSD: 15.0895
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 76057.8x + 1108.71
Goodness of fit (r^2): 0.999382



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	5350	9219	18452	37788	74456
RF	107000	92190	73808	75576	74456
Last Area					
Residual	-0.00576398	-0.00663317	0.0219723	0.0177447	0.0356378
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	5350	9219	18452	37788	74456
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				37788	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:35
User: RED
Instrument: HPLC 2 (Offline)

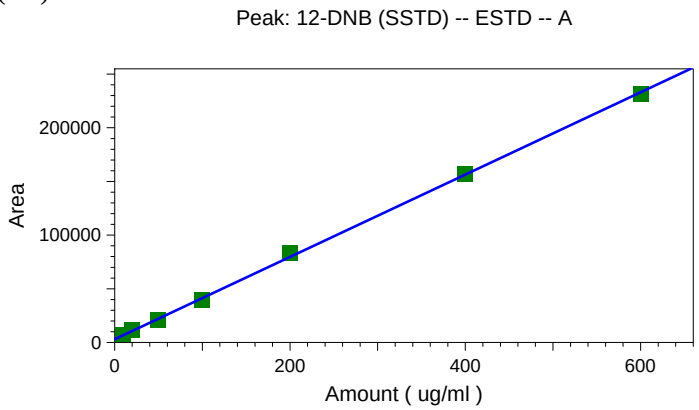
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	154886	232843
RF	77443	77614.3333333333
Last Area Residual	-0.0218471	-0.0468174
Rep StDev		
Rep %RSD		
Rep 1 Area	154886	232843
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:40
User: RED
Instrument: HPLC 2 (Offline)

12-DNB (SSTD) (A)
Average RF: 464.090 RF StDev: 108.199 RF %RSD: 23.3142
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 383.575x + 2938.38
Goodness of fit (r^2): 0.999578



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	10	20	50	100	200
Area	6504	11749	21273	39250	82859
RF	650.4	587.45	425.46	392.5	414.295
Last Area					
Residual	0.704261	-2.96971	2.20075	5.33383	-8.35699
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	6504	11749	21273	39250	82859
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				39250	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:40
User: RED
Instrument: HPLC 2 (Offline)

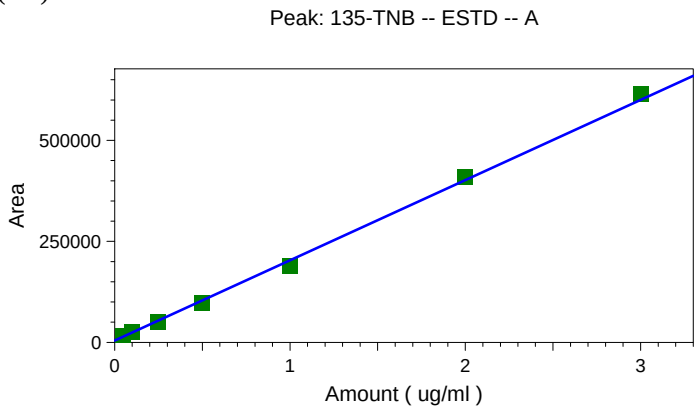
Rep 2 Data File			C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	
Rep 2 Sample ID			8330 Pt. 4 EXP 5005	
Rep 2 Calib. Time			Apr 26, 2013 07:36:23	

	Level 6	Level 7
Amount	400	600
Area	156906	231757
RF	392.265	386.261666666667
Last Area Residual	-1.40116	3.45859
Rep StDev		
Rep %RSD		
Rep 1 Area	156906	231757
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:44
User: RED
Instrument: HPLC 2 (Offline)

135-TNB (A)
Average RF: 224766. RF StDev: 46135.1 RF %RSD: 20.5259
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 198524.x + 4462.83
Goodness of fit (r^2): 0.998243



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	15785	25887	51059	98481	188173
RF	315700	258870	204236	196962	188173
Last Area					
Residual	-0.00703185	-0.00791749	0.0152865	0.0264131	0.0746179
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	15785	25887	51059	98481	188173
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				98481	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:44
User: RED
Instrument: HPLC 2 (Offline)

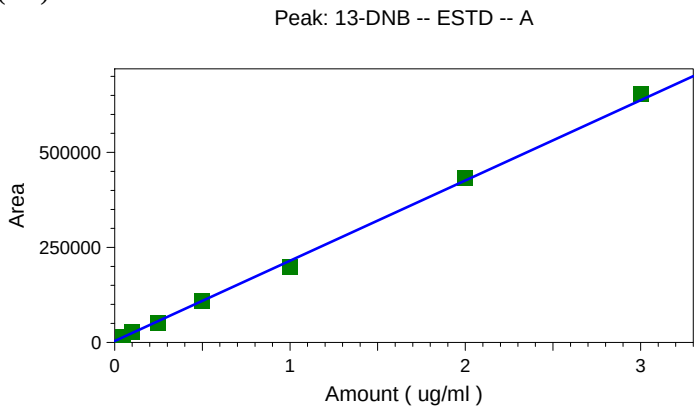
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	408467	615555
RF	204233.5	205185
Last Area		
Residual	-0.0350438	-0.0781843
Rep StDev		
Rep %RSD		
Rep 1 Area	408467	615555
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:47
User: RED
Instrument: HPLC 2 (Offline)

13-DNB (A)
Average RF: 232933. RF StDev: 40709.8 RF %RSD: 17.4770
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 211210.x + 3628.10
Goodness of fit (r^2): 0.998108



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	15456	26872	50956	108694	197420
RF	309120	268720	203824	217388	197420
Last Area					
Residual	-0.0060006	-0.010051	0.0259204	0.0025529	0.082469
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	15456	26872	50956	108694	197420
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				108694	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:47
User: RED
Instrument: HPLC 2 (Offline)

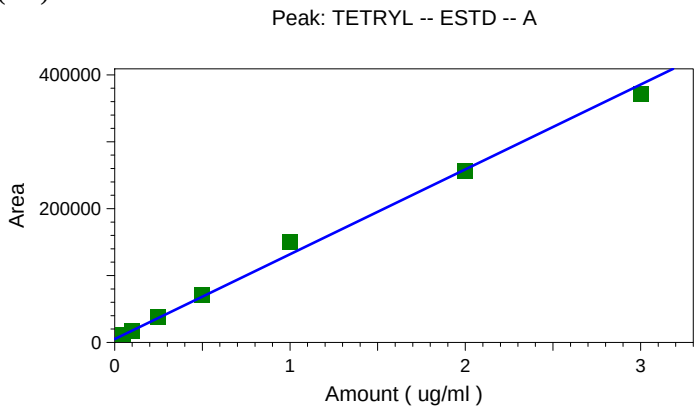
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	431800	654478
RF	215900	218159.333333333
Last Area Residual	-0.0272312	-0.081527
Rep StDev		
Rep %RSD		
Rep 1 Area	431800	654478
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:52
User: RED
Instrument: HPLC 2 (Offline)

TETRYL (A)
Average RF: 152900. RF StDev: 27894.6 RF %RSD: 18.2437
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 126894.x + 4953.14
Goodness of fit (r^2): 0.995484



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	10256	17132	37697	70902	149411
RF	205120	171320	150788	141804	149411
Last Area					
Residual	0.00821032	0.0040234	-0.00804087	-0.0197158	-0.138413
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	10256	17132	37697	70902	149411
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				70902	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:52
User: RED
Instrument: HPLC 2 (Offline)

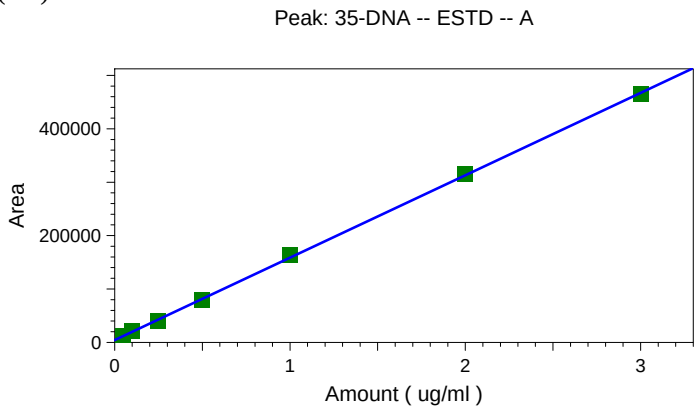
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	255759	371926
RF	127879.5	123975.333333333
Last Area Residual	0.0235026	0.108038
Rep StDev		
Rep %RSD		
Rep 1 Area	255759	371926
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:55
User: RED
Instrument: HPLC 2 (Offline)

35-DNA (A)
Average RF: 178962. RF StDev: 36310.9 RF %RSD: 20.2897
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 154277.x + 4452.62
Goodness of fit (r^2): 0.999821



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	12552	20581	40424	79488	162686
RF	251040	205810	161696	158976	162686
Last Area					
Residual	-0.00249895	-0.00454174	0.0168389	0.0136318	-0.0256452
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	12552	20581	40424	79488	162686
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				79488	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:55
User: RED
Instrument: HPLC 2 (Offline)

Rep 2 Data File			C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	
Rep 2 Sample ID			8330 Pt. 4 EXP 5005	
Rep 2 Calib. Time			Apr 26, 2013 07:36:23	

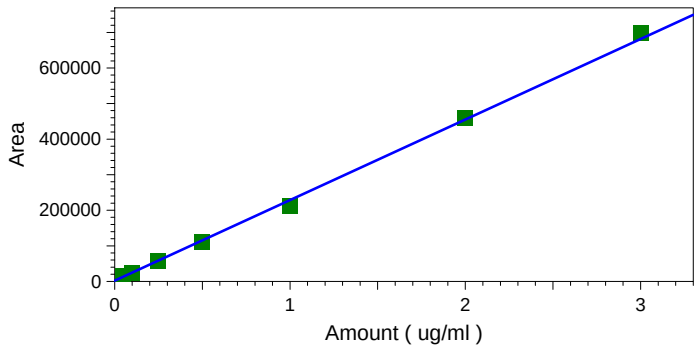
	Level 6	Level 7
Amount	2	3
Area	314546	465769
RF	157273	155256.333333333
Last Area Residual	-0.0099792	0.00981577
Rep StDev		
Rep %RSD		
Rep 1 Area	314546	465769
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:59
User: RED
Instrument: HPLC 2 (Offline)

NB (A)
Average RF: 237968. RF StDev: 26498.4 RF %RSD: 11.1353
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 226514.x + 1909.35
Goodness of fit (r^2): 0.998530

Peak: NB -- ESTD -- A



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	14648	24771	57100	110575	212997
RF	292960	247710	228400	221150	212997
Last Area					
Residual	-0.00623775	-0.000928115	0.00634791	0.0202699	0.0681039
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	14648	24771	57100	110575	212997
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				110575	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:39:59
User: RED
Instrument: HPLC 2 (Offline)

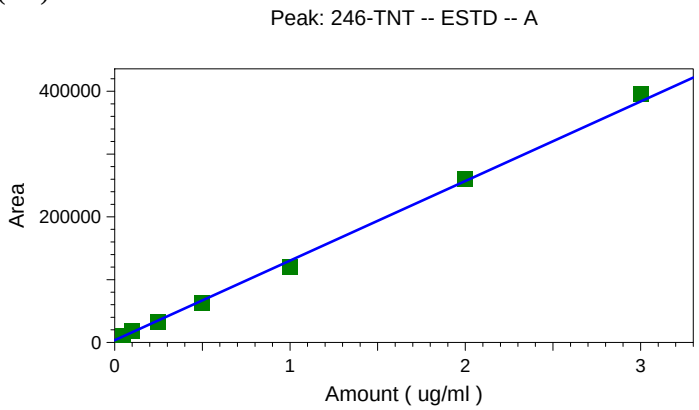
Rep 2 Data File			C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	
Rep 2 Sample ID			8330 Pt. 4 EXP 5005	
Rep 2 Calib. Time			Apr 26, 2013 07:36:23	

	Level 6	Level 7
Amount	2	3
Area	458950	699242
RF	229475	233080.666666667
Last Area Residual	-0.0177135	-0.0785391
Rep StDev		
Rep %RSD		
Rep 1 Area	458950	699242
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:02
User: RED
Instrument: HPLC 2 (Offline)

246-TNT (A)
Average RF: 146676. RF StDev: 34474.5 RF %RSD: 23.5039
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 126813.x + 3333.53
Goodness of fit (r^2): 0.997885



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	10598	17750	32048	63175	120895
RF	211960	177500	128192	126350	120895
Last Area					
Residual	-0.00728503	-0.0136831	0.023568	0.0281117	0.0729526
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	10598	17750	32048	63175	120895
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				63175	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:02
User: RED
Instrument: HPLC 2 (Offline)

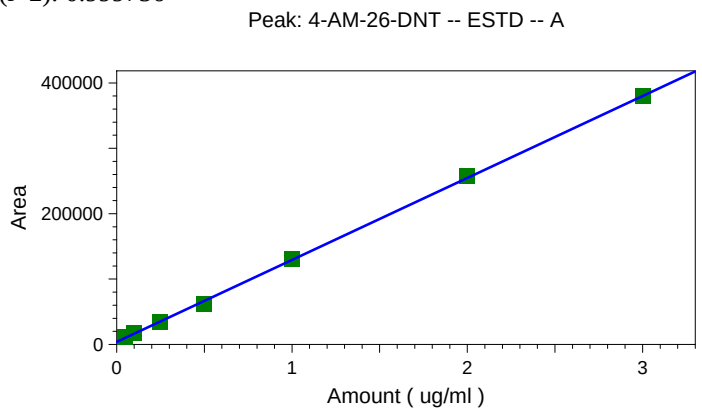
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	259536	396194
RF	129768	132064.666666667
Last Area Residual	-0.0203204	-0.0979562
Rep StDev		
Rep %RSD		
Rep 1 Area	259536	396194
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:05
User: RED
Instrument: HPLC 2 (Offline)

4-AM-26-DNT (A)
Average RF: 147467. RF StDev: 33851.3 RF %RSD: 22.9552
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 125367.x + 3936.68
Goodness of fit (r^2): 0.999756



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	10845	16699	34310	62419	130720
RF	216900	166990	137240	124838	130720
Last Area					
Residual	-0.0051049	-0.00179989	0.00772428	0.0335101	-0.0112993
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	10845	16699	34310	62419	130720
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				62419	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:05
User: RED
Instrument: HPLC 2 (Offline)

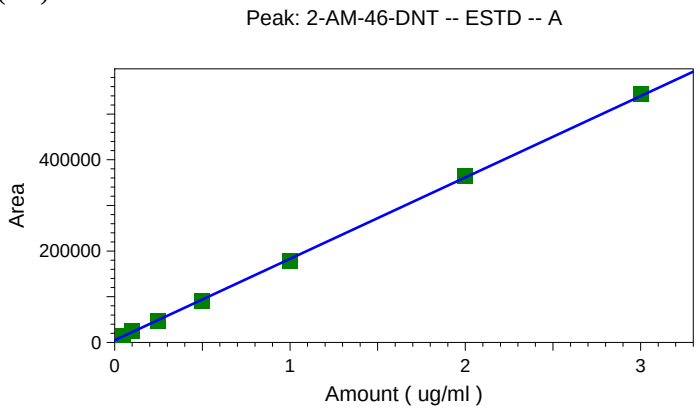
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	257485	380507
RF	128742.5	126835.666666667
Last Area Residual	-0.0224525	-0.00374929
Rep StDev		
Rep %RSD		
Rep 1 Area	257485	380507
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:09
User: RED
Instrument: HPLC 2 (Offline)

2-AM-46-DNT (A)
Average RF: 205624. RF StDev: 42170.8 RF %RSD: 20.5087
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 178176.x + 4880.14
Goodness of fit (r^2): 0.999640



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	14330	24195	46793	90557	178311
RF	286600	241950	187172	181114	178311
Last Area					
Residual	-0.00303656	-0.00840308	0.0147675	0.0191456	0.0266333
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	14330	24195	46793	90557	178311
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				90557	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:09
User: RED
Instrument: HPLC 2 (Offline)

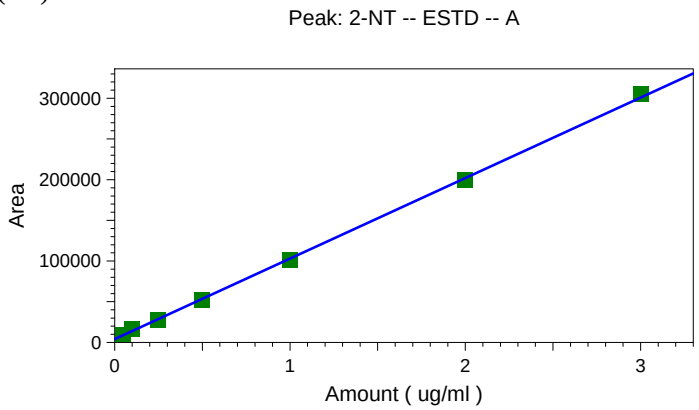
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	365324	544680
RF	182662	181560
Last Area		
Residual	-0.0229621	-0.0295831
Rep StDev		
Rep %RSD		
Rep 1 Area	365324	544680
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:12
User: RED
Instrument: HPLC 2 (Offline)

2-NT (A)
Average RF: 121760. RF StDev: 31019.2 RF %RSD: 25.4758
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 98875.7x + 4141.18
Goodness of fit (r^2): 0.999485



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	8558	16209	28081	51650	101503
RF	171160	162090	112324	103300	101503
Last Area					
Residual	0.0053296	-0.0220504	0.00787975	0.0195098	0.0153113
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	8558	16209	28081	51650	101503
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				51650	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:12
User: RED
Instrument: HPLC 2 (Offline)

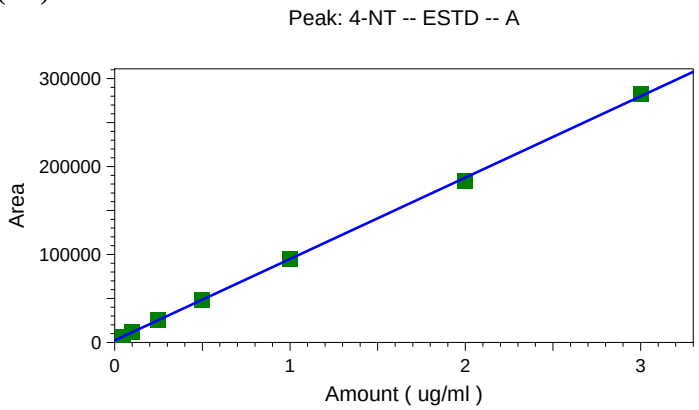
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	200107	305659
RF	100053.5	101886.333333333
Last Area Residual	0.0180596	-0.0494621
Rep StDev		
Rep %RSD		
Rep 1 Area	200107	305659
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:17
User: RED
Instrument: HPLC 2 (Offline)

4-NT (A)
Average RF: 105138. RF StDev: 16019.6 RF %RSD: 15.2368
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 92514.5x + 2345.35
Goodness of fit (r^2): 0.999665



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	6666	12195	25505	48645	95159
RF	133320	121950	102020	97290	95159
Last Area					
Residual	0.00329755	-0.00646605	-0.000335391	-0.000458347	-0.00323359
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	6666	12195	25505	48645	95159
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				48645	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:17
User: RED
Instrument: HPLC 2 (Offline)

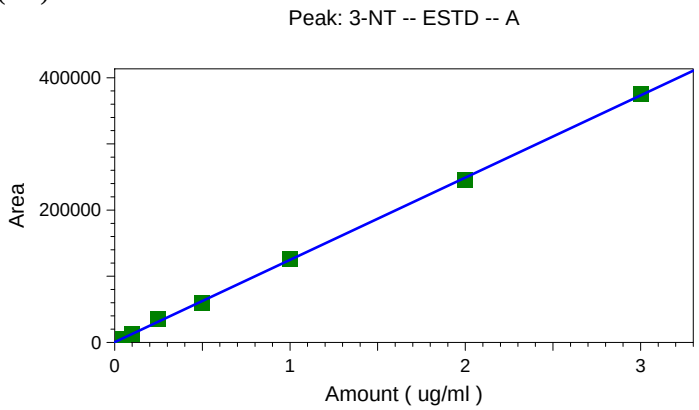
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	183870	282870
RF	91935	94290
Last Area		
Residual	0.0378789	-0.0322237
Rep StDev		
Rep %RSD		
Rep 1 Area	183870	282870
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:21
User: RED
Instrument: HPLC 2 (Offline)

3-NT (A)
Average RF: 126434. RF StDev: 8519.16 RF %RSD: 6.73805
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 124306.x + 302.897
Goodness of fit (r^2): 0.999550



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	5893	13176	35689	59736	125519
RF	117860	131760	142756	119472	125519
Last Area					
Residual	0.00502961	-0.00355954	-0.0346686	0.0218818	-0.00731913
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	5893	13176	35689	59736	125519
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				59736	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:21
User: RED
Instrument: HPLC 2 (Offline)

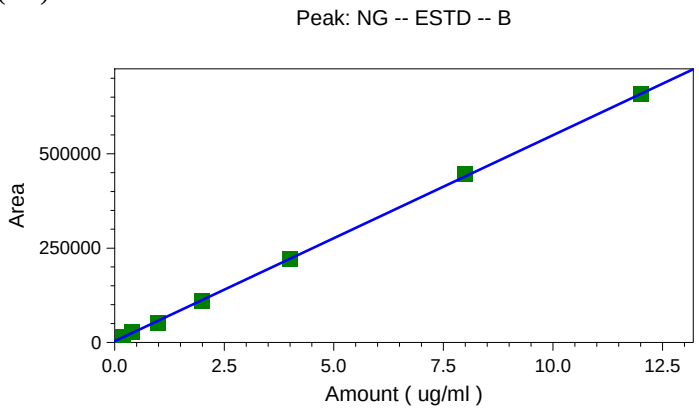
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	244721	375923
RF	122360.5	125307.666666667
Last Area Residual	0.0337431	-0.0217305
Rep StDev		
Rep %RSD		
Rep 1 Area	244721	375923
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:35
User: RED
Instrument: HPLC 2 (Offline)

NG (B)
Average RF: 59607.5 RF StDev: 9137.33 RF %RSD: 15.3292
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 54585.0x + 3376.50
Goodness of fit (r^2): 0.999676



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.2	0.4	1	2	4
Area	14819	28496	50499	110658	221142
RF	74095	71240	50499	55329	55285.5
Last Area					
Residual	-0.00962719	-0.0601905	0.136713	0.0345975	0.010525
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	14819	28496	50499	110658	221142
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				110658	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:35
User: RED
Instrument: HPLC 2 (Offline)

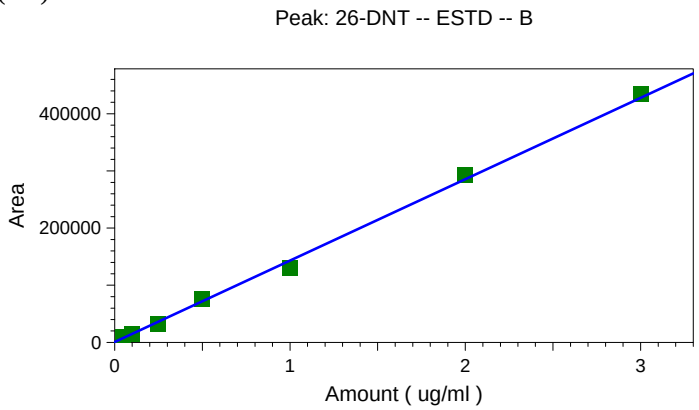
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	8	12
Area	446881	659326
RF	55860.125	54943.8333333333
Last Area Residual	-0.125025	-0.0170282
Rep StDev		
Rep %RSD		
Rep 1 Area	446881	659326
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:40
User: RED
Instrument: HPLC 2 (Offline)

26-DNT (B)
Average RF: 147952. RF StDev: 18501.0 RF %RSD: 12.5047
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 142333.x + 795.628
Goodness of fit (r^2): 0.998223



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	9306	14588	32865	75251	130567
RF	186120	145880	131460	150502	130567
Last Area					
Residual	-0.00979196	0.00309789	0.0246878	-0.0231067	0.0882555
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	9306	14588	32865	75251	130567
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				75251	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:40
User: RED
Instrument: HPLC 2 (Offline)

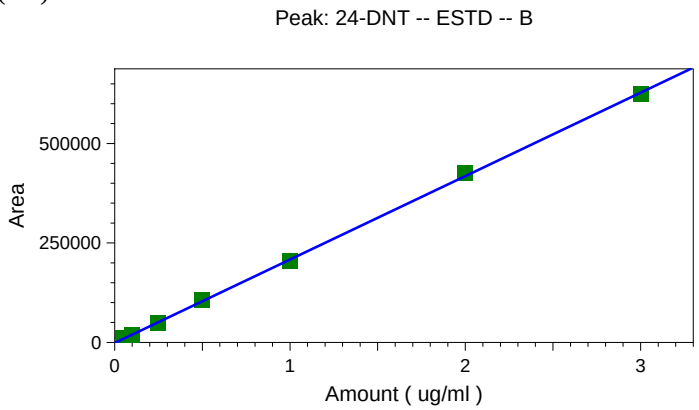
Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	2	3
Area	292190	435129
RF	146095	145043
Last Area		
Residual	-0.0472714	-0.0515287
Rep StDev		
Rep %RSD		
Rep 1 Area	292190	435129
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:43
User: RED
Instrument: HPLC 2 (Offline)

24-DNT (B)
Average RF: 203024. RF StDev: 10418.4 RF %RSD: 5.13159
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 209750.x - 1309.08
Goodness of fit (r^2): 0.999658



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.05	0.1	0.25	0.5	1
Area	10315	18366	48682	105344	203954
RF	206300	183660	194728	210688	203954
Last Area					
Residual	-0.00541861	0.00619766	0.011664	-0.00847621	0.0213935
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	10315	18366	48682	105344	203954
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				105344	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:43
User: RED
Instrument: HPLC 2 (Offline)

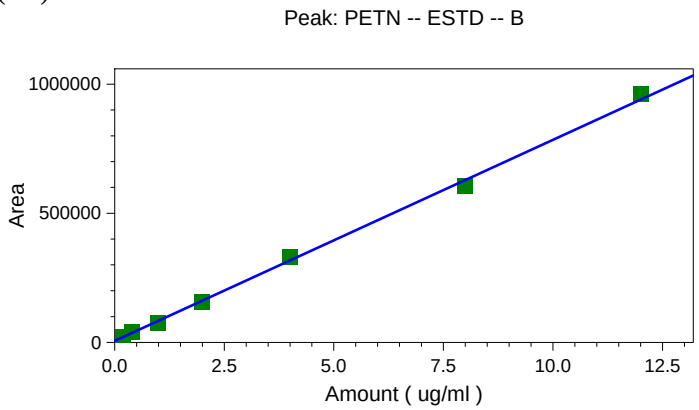
Rep 2 Data File			C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	
Rep 2 Sample ID			8330 Pt. 4 EXP 5005	
Rep 2 Calib. Time			Apr 26, 2013 07:36:23	

	Level 6	Level 7
Amount	2	3
Area	426827	625281
RF	213413.5	208427
Last Area		
Residual	-0.0411696	0.0126867
Rep StDev		
Rep %RSD		
Rep 1 Area	426827	625281
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:49
User: RED
Instrument: HPLC 2 (Offline)

PETN (B)
Average RF: 86482.2 RF StDev: 14649.6 RF %RSD: 16.9395
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 77827.6x + 5975.63
Goodness of fit (r^2): 0.998137



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.2	0.4	1	2	4
Area	22762	39855	75357	155664	331254
RF	113810	99637.5	75357	77832	82813.5
Last Area					
Residual	-0.0156867	-0.0353133	0.108524	0.0766661	-0.179476
Rep StDev				0	
Rep %RSD				0	
Rep 1 Area	22762	39855	75357	155664	331254
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
Rep 1 Sample ID	8330 Pt. 1 EXP 5002	8330 Pt. 2 EXP 5003	8330 Pt. 3 EXP 5004	8330 Pt. 4 EXP 5005	8330 Pt. 5 EXP 5006
Rep 1 Calib. Time	Apr 26, 2013 07:57:08	Apr 26, 2013 07:34:56	Apr 26, 2013 07:54:11	Apr 26, 2013 07:35:25	Apr 26, 2013 07:48:01
Rep 2 Area				155664	
Rep 2 User				RED	

Calibration Report

Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Print Time: May 09, 2013 09:40:49
User: RED
Instrument: HPLC 2 (Offline)

Rep 2 Data File				C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
Rep 2 Sample ID				8330 Pt. 4 EXP 5005
Rep 2 Calib. Time				Apr 26, 2013 07:36:23

	Level 6	Level 7
Amount	8	12
Area	605300	963155
RF	75662.5	80262.9166666667
Last Area Residual	0.299329	-0.298721
Rep StDev		
Rep %RSD		
Rep 1 Area	605300	963155
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat	C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
Rep 1 Sample ID	8330 Pt. 6 EXP 5007	8330 Pt. 7 EXP 5008
Rep 1 Calib. Time	Apr 26, 2013 07:39:05	Apr 26, 2013 07:41:20
Rep 2 Area		
Rep 2 User		
Rep 2 Data File		
Rep 2 Sample ID		
Rep 2 Calib. Time		

QC Check Standard Report

Sequence : C:\Instarch\HPLC 2\Sequences\8330A_B\042513expic-primary.seq
User : RED
Printed : May 08, 2013 14:58:10

File	Sample ID	Acquired
C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat	8330 Pt. 1 EXP 5002	May 08, 2013 14:58:09

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.050	0.048	3.317	20.000	Passed
RDX	0.050	0.056	11.528	20.000	Passed
12-DNB (SSTD)	10.000	9.296	7.043	20.000	Passed
135-TNB	0.050	0.057	14.064	20.000	Passed
13-DNB	0.050	0.056	12.001	20.000	Passed
TETRYL	0.050	0.042	16.421	20.000	Passed
35-DNA	0.050	0.052	4.998	20.000	Passed
NB	0.050	0.056	12.475	20.000	Passed
246-TNT	0.050	0.057	14.570	20.000	Passed
4-AM-26-DNT	0.050	0.055	10.210	20.000	Passed
2-AM-46-DNT	0.050	0.053	6.073	20.000	Passed
2-NT	0.050	0.045	10.659	20.000	Passed
4-NT	0.050	0.047	6.595	20.000	Passed
3-NT	0.050	0.045	10.059	20.000	Passed

B

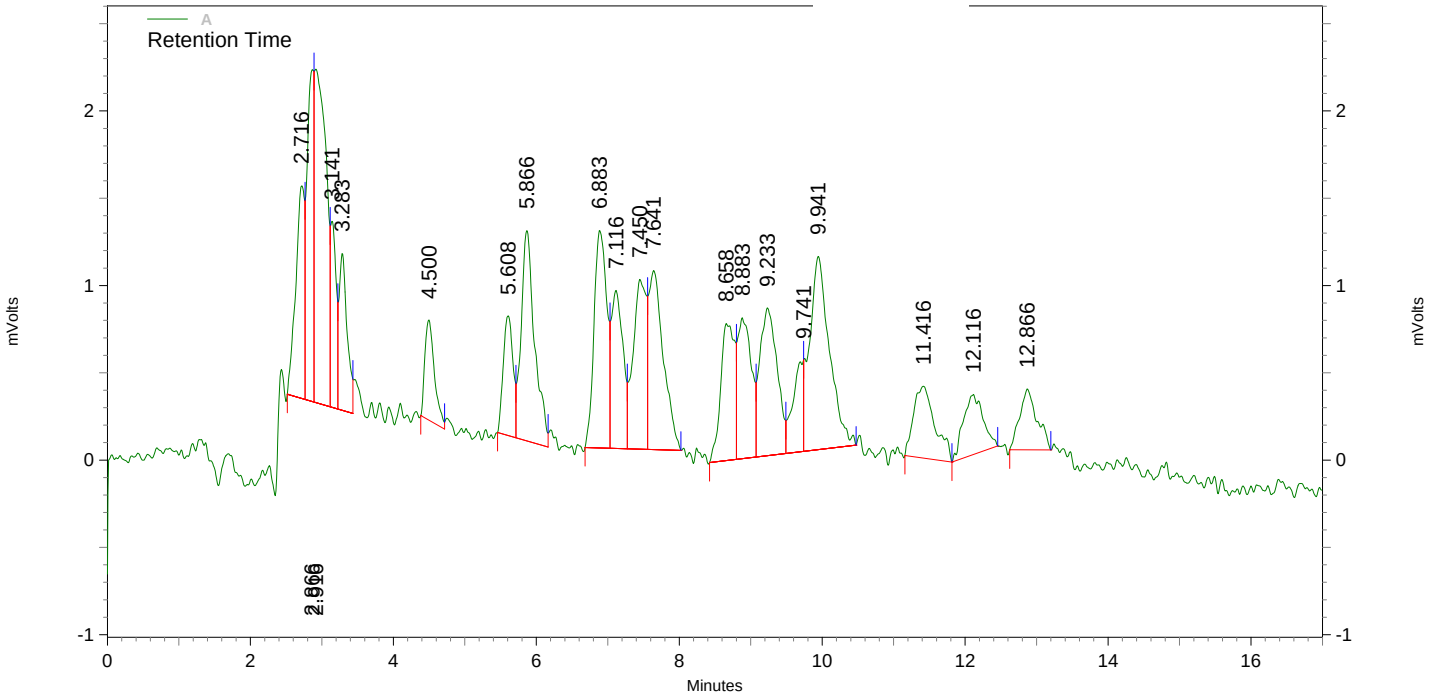
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	0.200	0.210	4.814	20.000	Passed
26-DNT	0.050	0.060	19.584	20.000	Passed
24-DNT	0.050	0.055	10.837	20.000	Passed
PETN	0.200	0.216	7.843	20.000	Passed

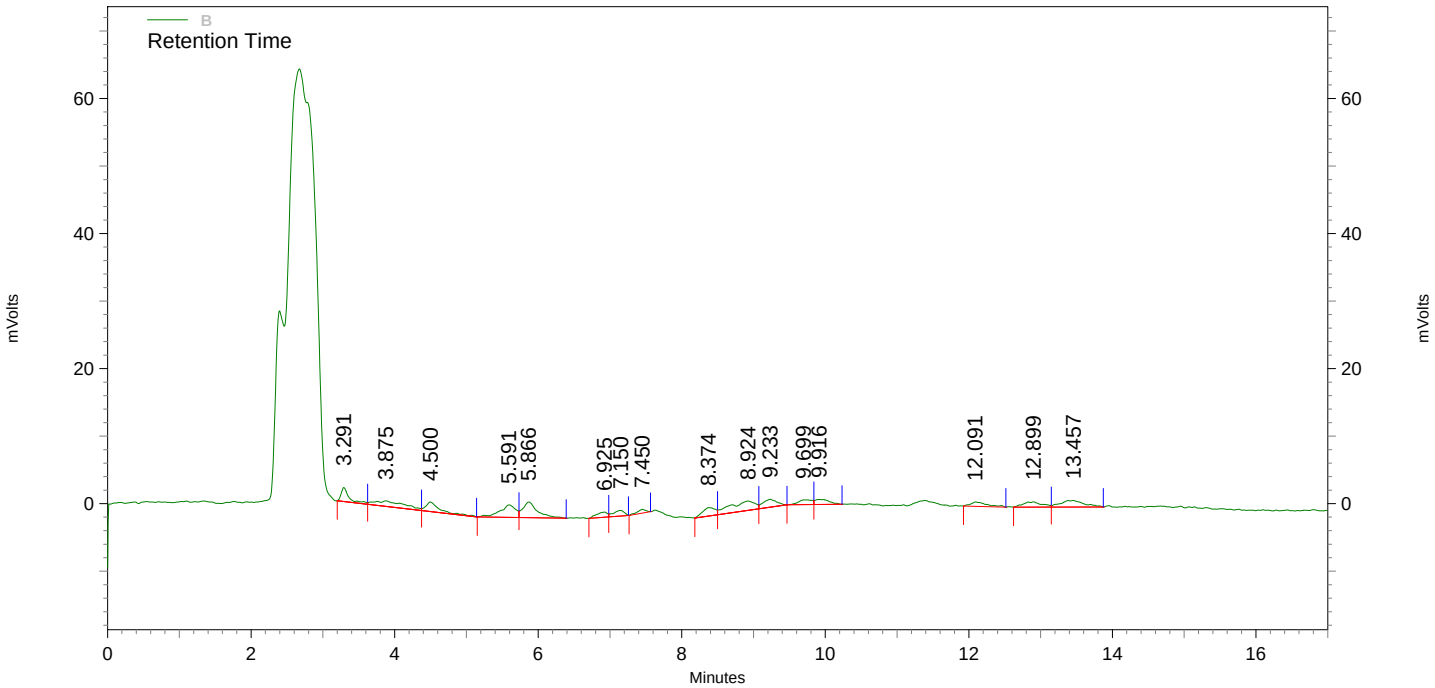
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 1 EXP 5002
Acquired: Apr 25, 2013 16:48:21
Data Summary: Reason #3,#4 applies to data. RED 4/26/2013

JJY
04/26/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.283	7060	**0.048**
RDX	4.500	5350	**0.056**
12-DNB (SSTD)	5.608	6504	**9.296**
135-TNB	5.866	15785	**0.057**
13-DNB	6.883	15456	**0.056**
TETRYL	7.116	10256	**0.042**
35-DNA	7.450	12552	**0.052**
NB	7.641	14648	**0.056**
246-TNT	8.658	10598	**0.057**
4-AM-26-DNT	8.883	10845	**0.055**
2-AM-46-DNT	9.233	14330	**0.053**
2-NT	11.416	8558	**0.045**
4-NT	12.116	6666	**0.047**
3-NT	12.866	5893	**0.045**

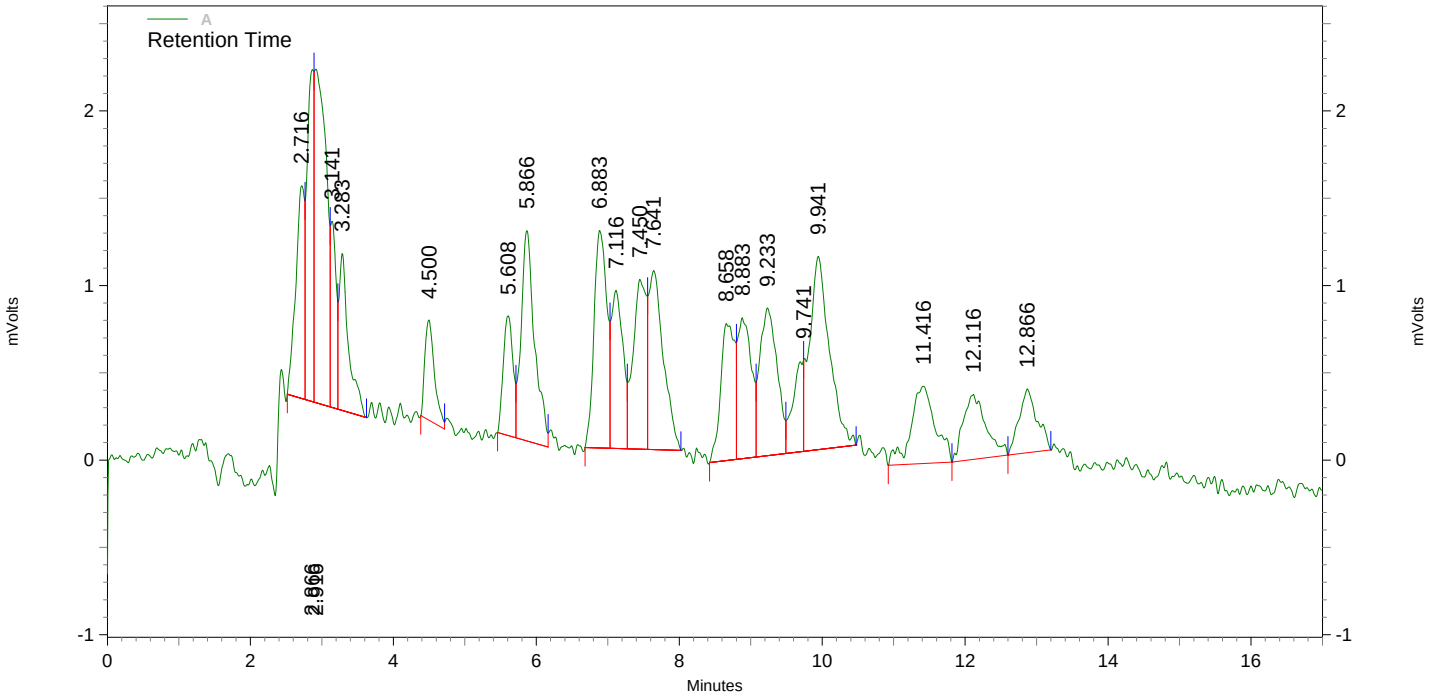
B Results

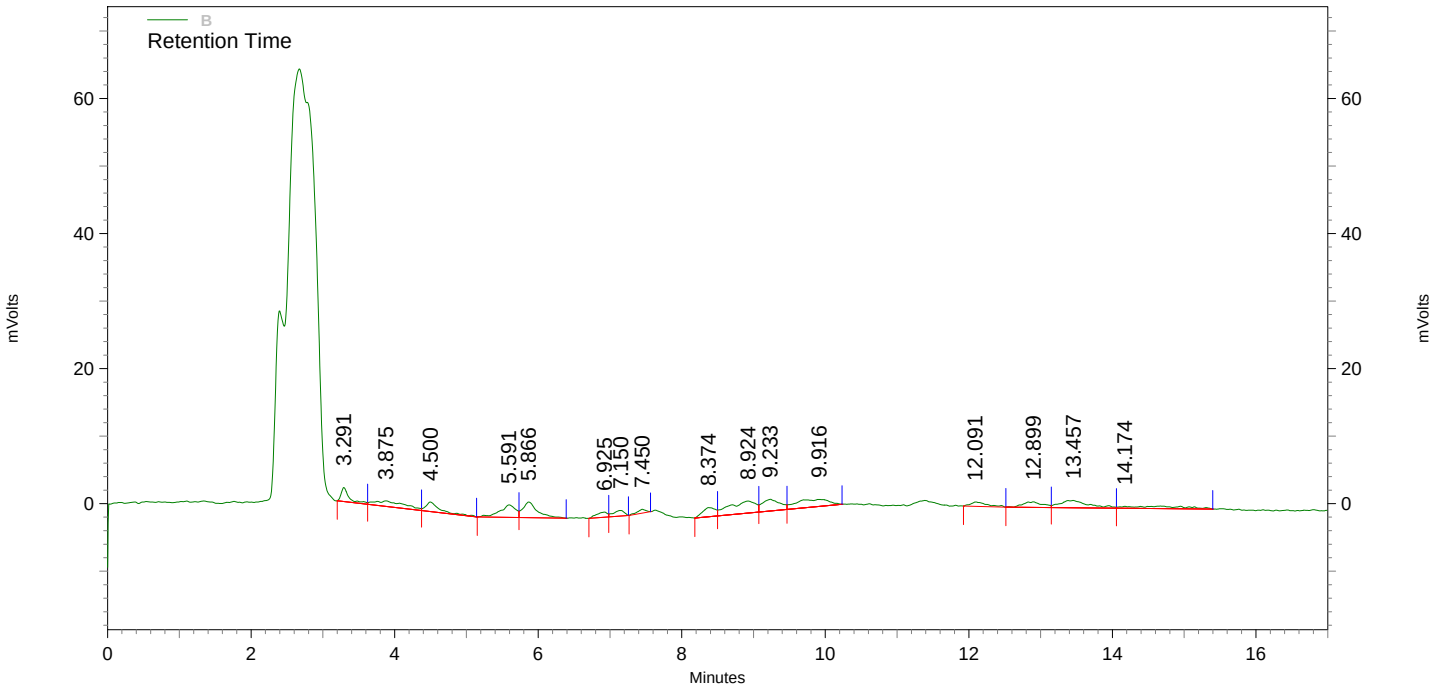
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.374	14819	**0.210**
26-DNT	9.699	9306	**0.060**
24-DNT	9.916	10315	**0.055**
PETN	13.457	22762	**0.216**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\002.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 1 EXP 5002
Acquired: Apr 25, 2013 16:48:21
Data Summary: Reason #3,#4 applies to data. RED 4/26/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.283	8352	**0.070**
RDX	4.500	5350	**0.056**
12-DNB (SSTD)	5.608	6504	**9.296**
135-TNB	5.866	15785	**0.057**
13-DNB	6.883	15456	**0.056**
TETRYL	7.116	10256	**0.042**
35-DNA	7.450	12552	**0.052**
NB	7.641	14648	**0.056**
246-TNT	8.658	10598	**0.057**
4-AM-26-DNT	8.883	10845	**0.055**
2-AM-46-DNT	9.233	14330	**0.053**
2-NT	11.416	10488	**0.064**
4-NT	12.116	8227	**0.064**
3-NT	12.866	6407	**0.049**

B Results

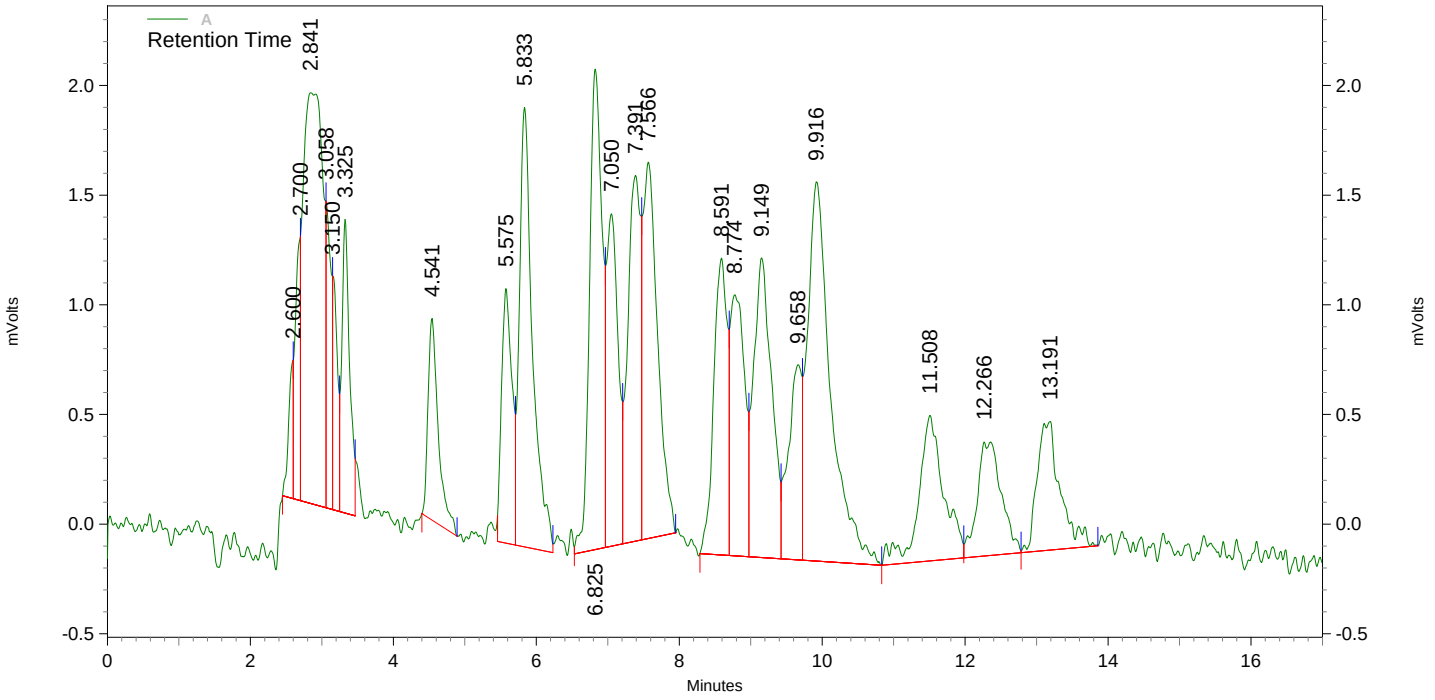
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.374	16432	**0.239**
26-DNT	9.233	29373	**0.201**
24-DNT	9.916	35448	**0.175**
PETN	13.457	30061	**0.309**

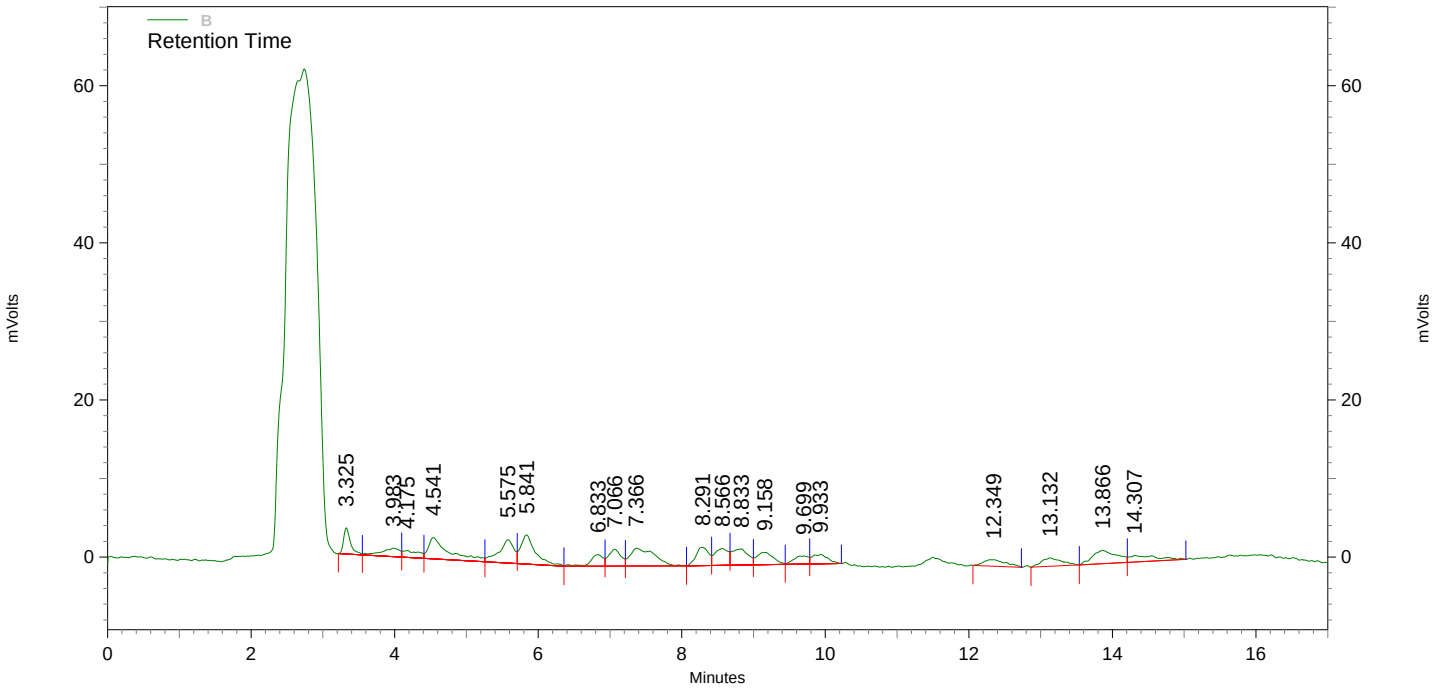
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 2 EXP 5003
Acquired: Apr 25, 2013 17:06:37
Data Summary: Reason #1,#2,#3 applies to data. RED 4/26/2013

JJY
04/26/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.325	10071	**0.100 CAL**
RDX	4.541	9219	**0.100 CAL**
12-DNB (SSTD)	5.575	11749	**20.000 CAL**
135-TNB	5.833	25887	**0.100 CAL**
13-DNB	6.825	26872	**0.100 CAL**
TETRYL	7.050	17132	**0.100 CAL**
35-DNA	7.391	20581	**0.100 CAL**
NB	7.566	24771	**0.100 CAL**
246-TNT	8.591	17750	**0.100 CAL**
4-AM-26-DNT	8.774	16699	**0.100 CAL**
2-AM-46-DNT	9.149	24195	**0.100 CAL**
2-NT	11.508	16209	**0.100 CAL**
4-NT	12.266	12195	**0.100 CAL**
3-NT	13.191	13176	**0.100 CAL**

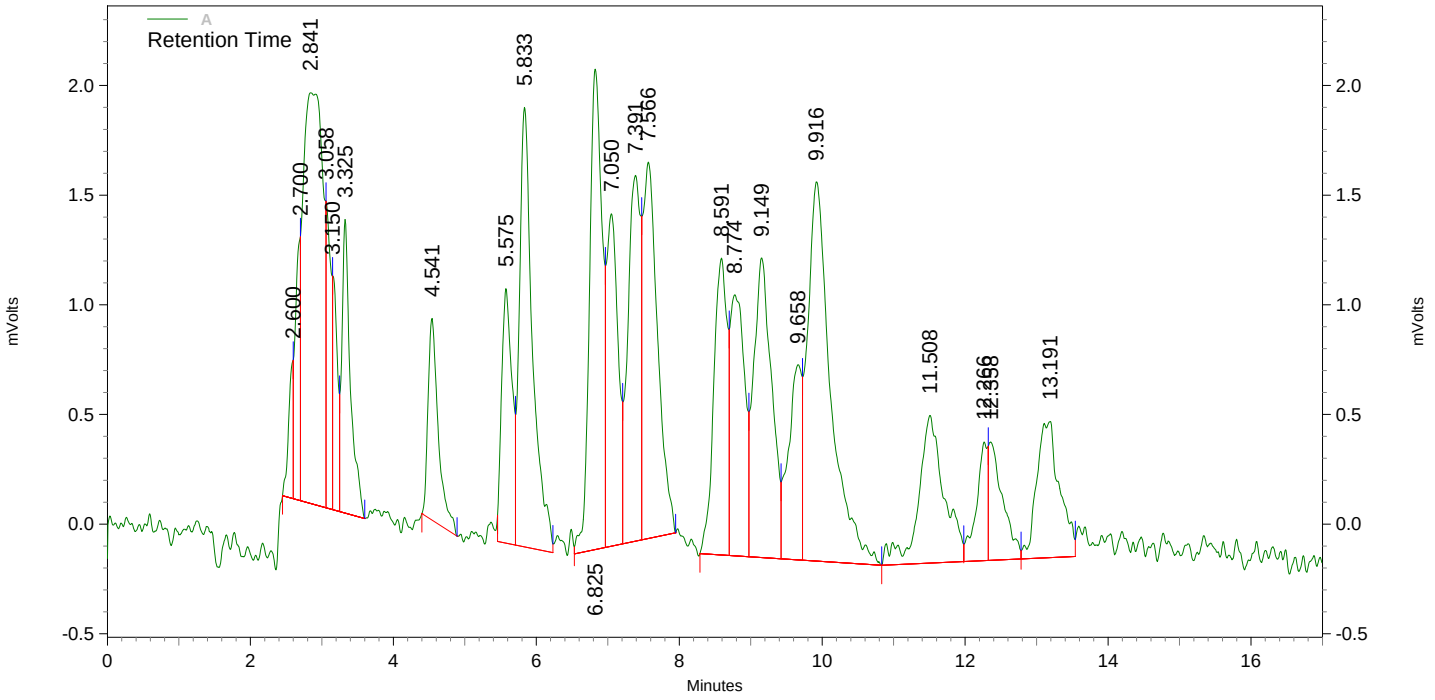
B Results

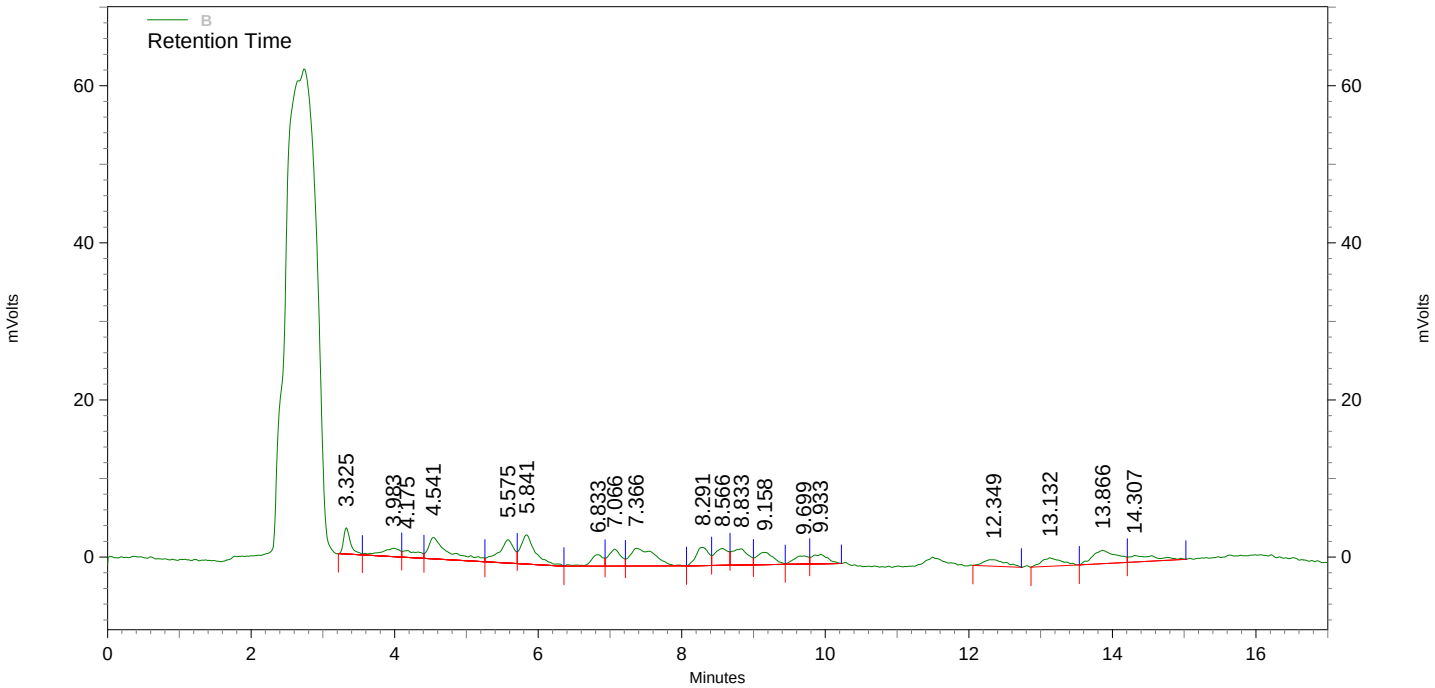
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.291	28496	**0.400 CAL**
26-DNT	9.699	14588	**0.100 CAL**
24-DNT	9.933	18366	**0.100 CAL**
PETN	13.866	39855	**0.400 CAL**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\003.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 2 EXP 5003
Acquired: Apr 25, 2013 17:06:37
Data Summary: Reason #1,#2,#3 applies to data. RED 4/26/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.325	11161	**0.000**
RDX	4.541	9219	**1.#IO**
12-DNB (SSTD)	5.575	11749	**1.#IO**
135-TNB	5.833	25887	**1.#IO**
13-DNB	6.825	26872	**1.#IO**
TETRYL	7.050	17132	**1.#IO**
35-DNA	7.391	20581	**1.#IO**
NB	7.566	24771	**1.#IO**
246-TNT	8.591	17750	**1.#IO**
4-AM-26-DNT	8.774	16699	**1.#IO**
2-AM-46-DNT	9.149	24195	**1.#IO**
2-NT	11.508	16791	**1.#IO**
4-NT	12.266	5878	**1.#IO**
3-NT	13.191	13895	**1.#IO**

B Results

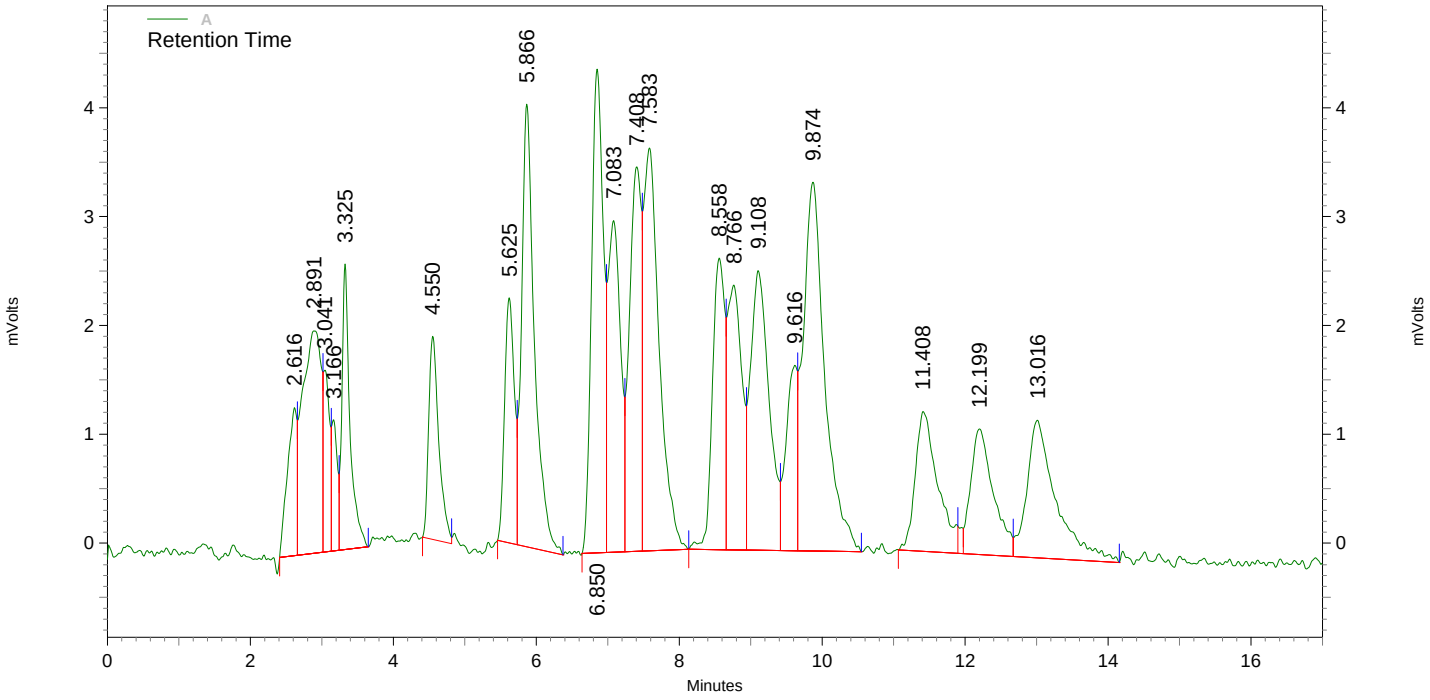
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.291	28496	**0.000**
26-DNT	9.699	14588	**1.#IO**
24-DNT	9.933	18366	**1.#IO**
PETN	13.132	20748	**1.#IO**

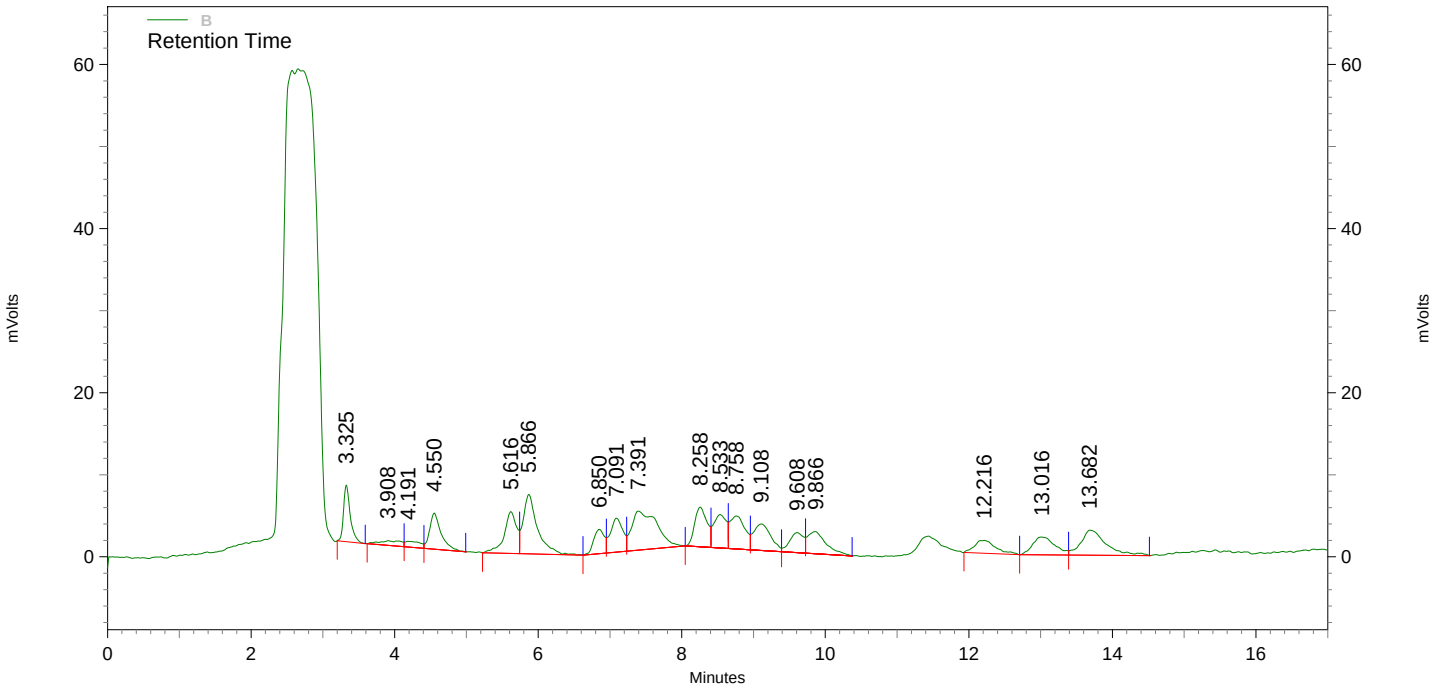
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 3 EXP 5004
Acquired: Apr 25, 2013 17:24:55
Data Summary: Reason #1,#4 applies to data. RED 4/26/2013

JJY
04/26/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.325	20629	**0.250 CAL**
RDX	4.550	18452	**0.250 CAL**
12-DNB (SSTD)	5.625	21273	**50.000 CAL**
135-TNB	5.866	51059	**0.250 CAL**
13-DNB	6.850	50956	**0.250 CAL**
TETRYL	7.083	37697	**0.250 CAL**
35-DNA	7.408	40424	**0.250 CAL**
NB	7.583	57100	**0.250 CAL**
246-TNT	8.558	32048	**0.250 CAL**
4-AM-26-DNT	8.766	34310	**0.250 CAL**
2-AM-46-DNT	9.108	46793	**0.250 CAL**
2-NT	11.408	28081	**0.250 CAL**
4-NT	12.199	25505	**0.250 CAL**
3-NT	13.016	35689	**0.250 CAL**

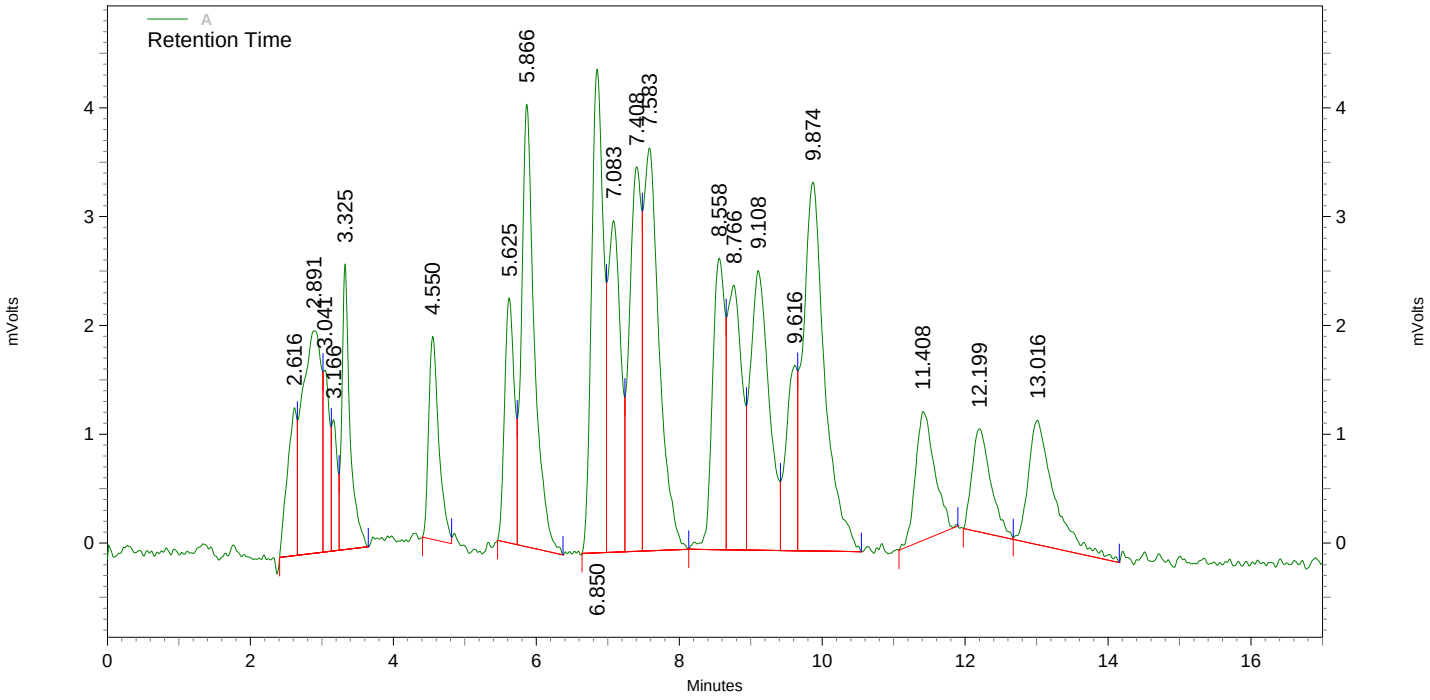
B Results

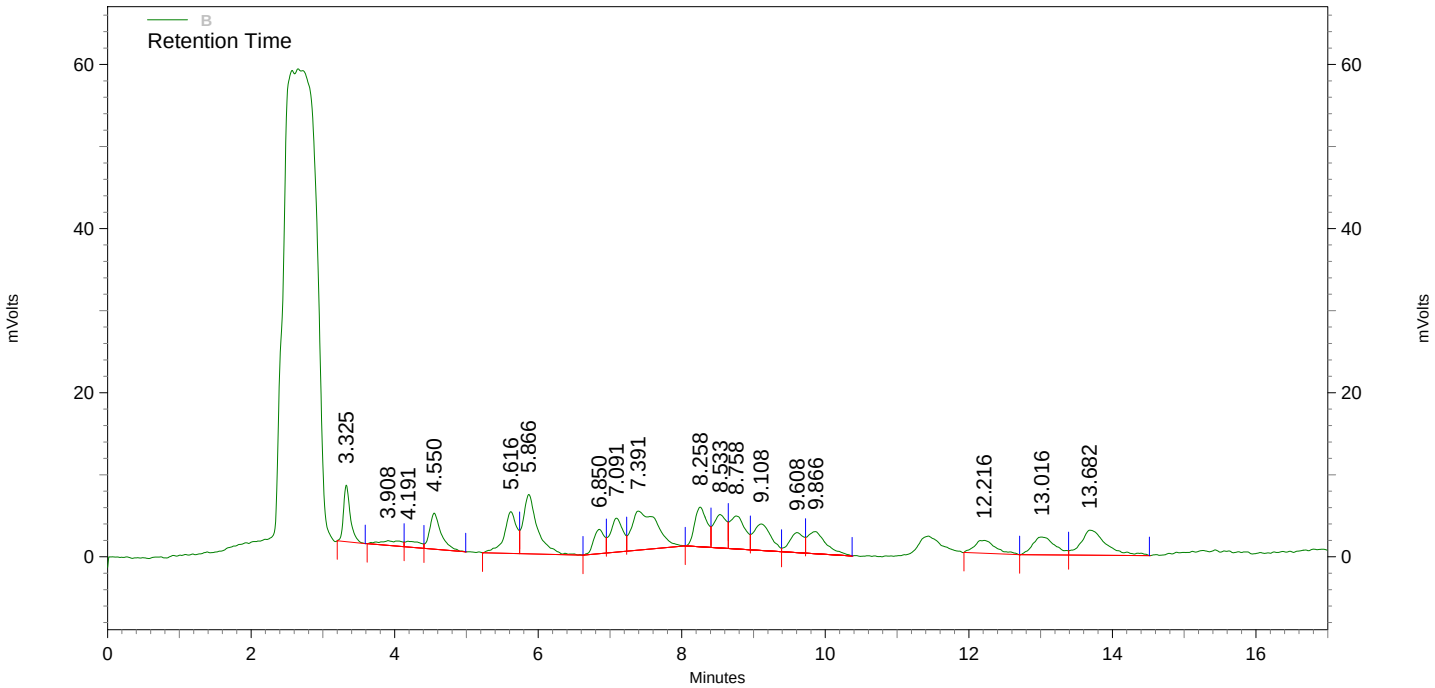
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.533	50499	**1.000 CAL**
26-DNT	9.608	32865	**0.250 CAL**
24-DNT	9.866	48682	**0.250 CAL**
PETN	13.682	75357	**1.000 CAL**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\004.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 3 EXP 5004
Acquired: Apr 25, 2013 17:24:55
Data Summary: Reason #1,#4 applies to data. RED 4/26/2013





A Results

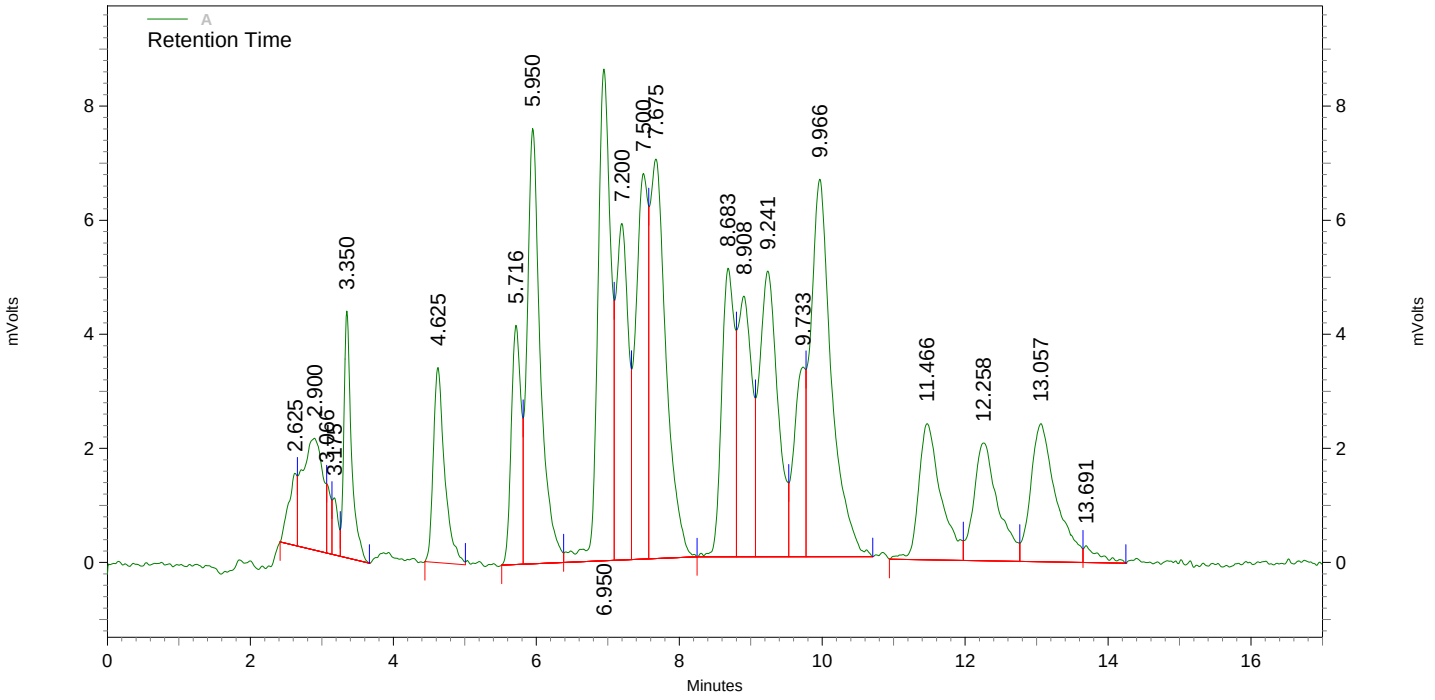
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.325	20629	**0.278**
RDX	4.550	18452	**0.228**
12-DNB (SSTD)	5.625	21273	**47.799**
135-TNB	5.866	51059	**0.235**
13-DNB	6.850	50956	**0.224**
TETRYL	7.083	37697	**0.258**
35-DNA	7.583	57100	**0.341**
NB			**0.000 BDL**
246-TNT	8.766	34310	**0.244**
4-AM-26-DNT	9.108	46793	**0.342**
2-AM-46-DNT	9.616	18486	**0.076**
2-NT	11.408	21929	**0.191**
4-NT	12.199	17320	**0.176**
3-NT	13.016	28673	**0.234**

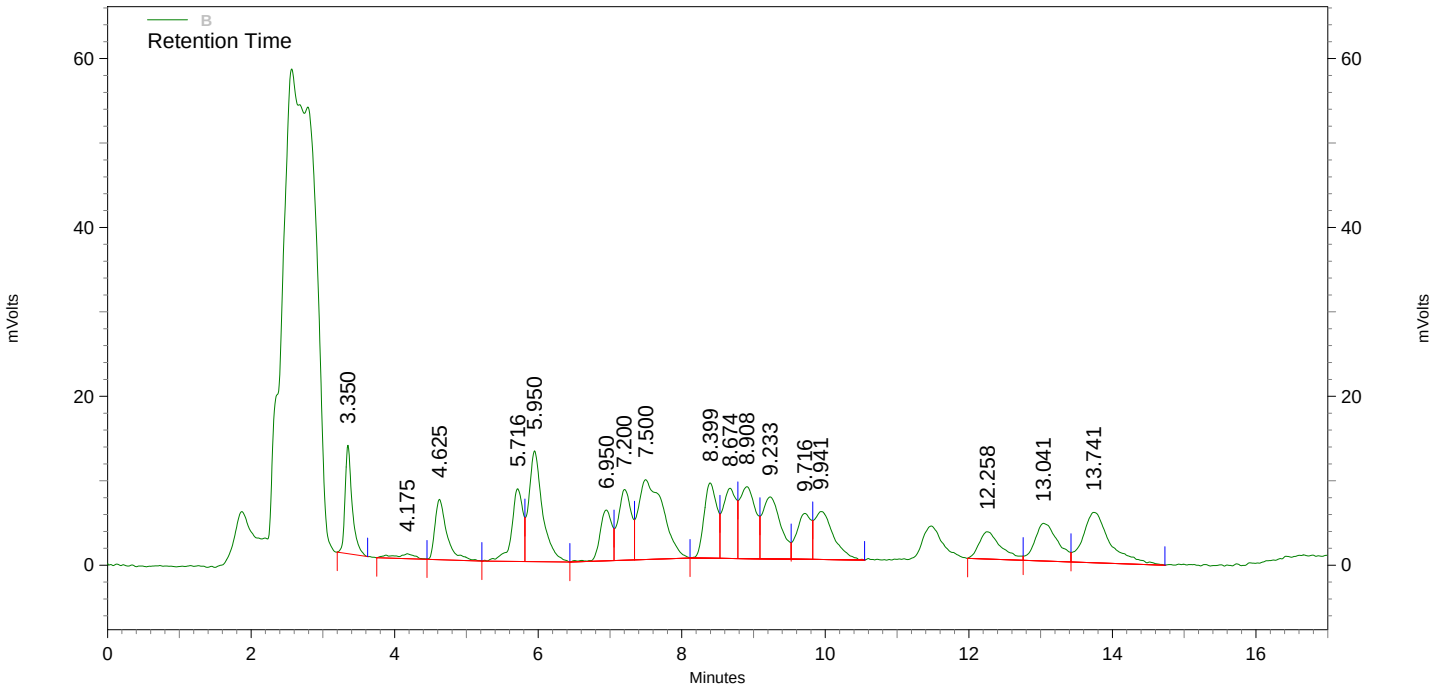
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.533	50499	**0.850**
26-DNT	9.608	32865	**0.205**
24-DNT	9.866	48682	**0.231**
PETN	13.682	75357	**0.855**

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\005.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 4 EXP 5005
Acquired: Apr 25, 2013 17:43:13
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.350	31640	**0.500 CAL**
RDX	4.625	37788	**0.500 CAL**
12-DNB (SSTD)	5.716	39250	**100.000 CAL**
135-TNB	5.950	98481	**0.500 CAL**
13-DNB	6.950	108694	**0.500 CAL**
TETRYL	7.200	70902	**0.500 CAL**
35-DNA	7.500	79488	**0.500 CAL**
NB	7.675	110575	**0.500 CAL**
246-TNT	8.683	63175	**0.500 CAL**
4-AM-26-DNT	8.908	62419	**0.500 CAL**
2-AM-46-DNT	9.241	90557	**0.500 CAL**
2-NT	11.466	51650	**0.500 CAL**
4-NT	12.258	48645	**0.500 CAL**
3-NT	13.057	59736	**0.500 CAL**

B Results

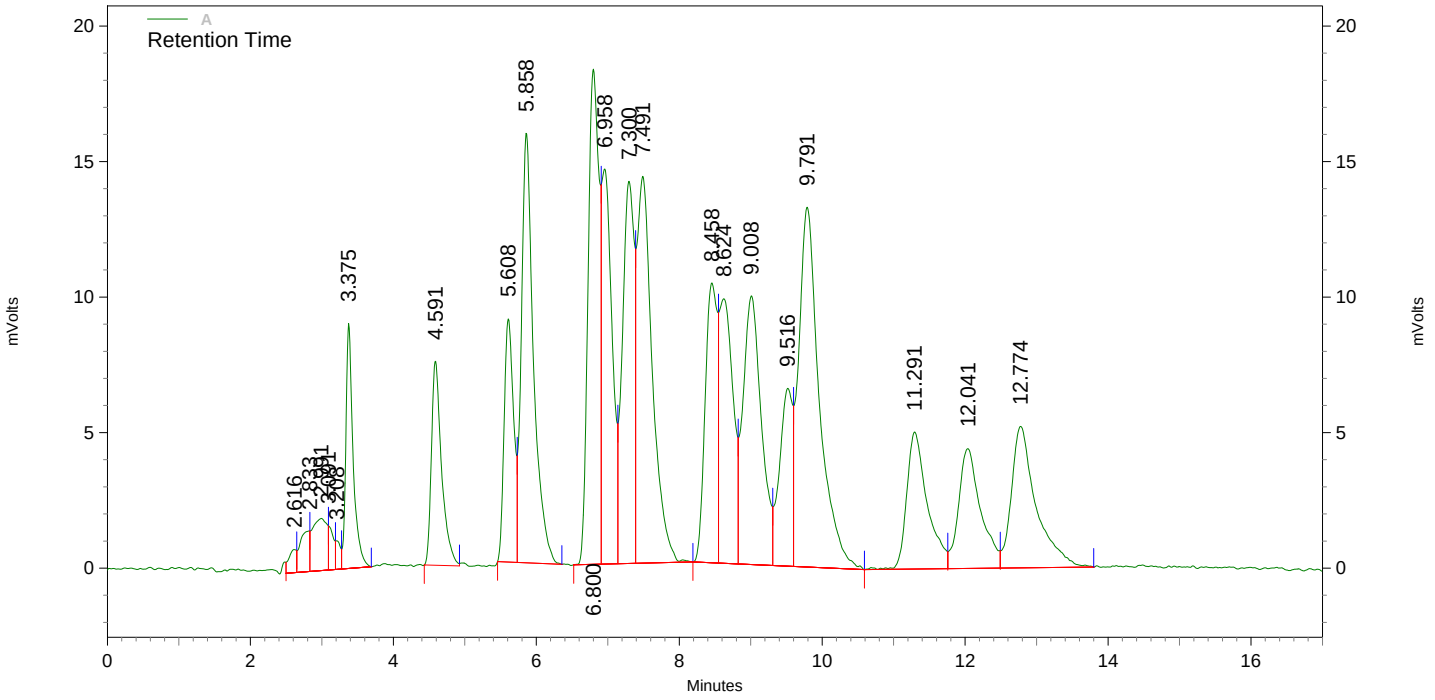
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.399	110658	**2.000 CAL**
26-DNT	9.716	75251	**0.500 CAL**
24-DNT	9.941	105344	**0.500 CAL**
PETN	13.741	155664	**2.000 CAL**

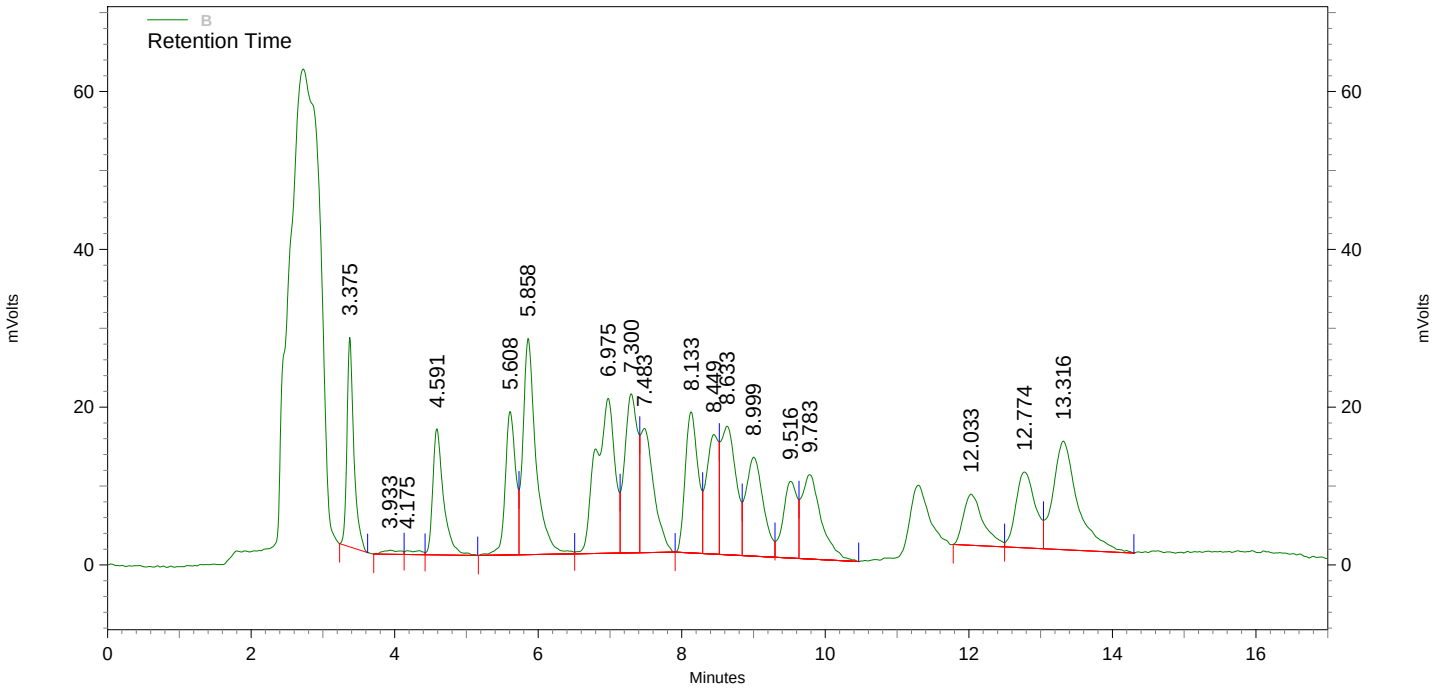
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 5 EXP 5006
Acquired: Apr 25, 2013 18:01:29
Data Summary: Reason #1 applies to data. RED 4/26/2013

JJY
04/26/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.375	63613	**1.000 CAL**
RDX	4.591	74456	**1.000 CAL**
12-DNB (SSTD)	5.608	82859	**200.000 CAL**
135-TNB	5.858	188173	**1.000 CAL**
13-DNB	6.800	197420	**1.000 CAL**
TETRYL	6.958	149411	**1.000 CAL**
35-DNA	7.300	162686	**1.000 CAL**
NB	7.491	212997	**1.000 CAL**
246-TNT	8.458	120895	**1.000 CAL**
4-AM-26-DNT	8.624	130720	**1.000 CAL**
2-AM-46-DNT	9.008	178311	**1.000 CAL**
2-NT	11.291	101503	**1.000 CAL**
4-NT	12.041	95159	**1.000 CAL**
3-NT	12.774	125519	**1.000 CAL**

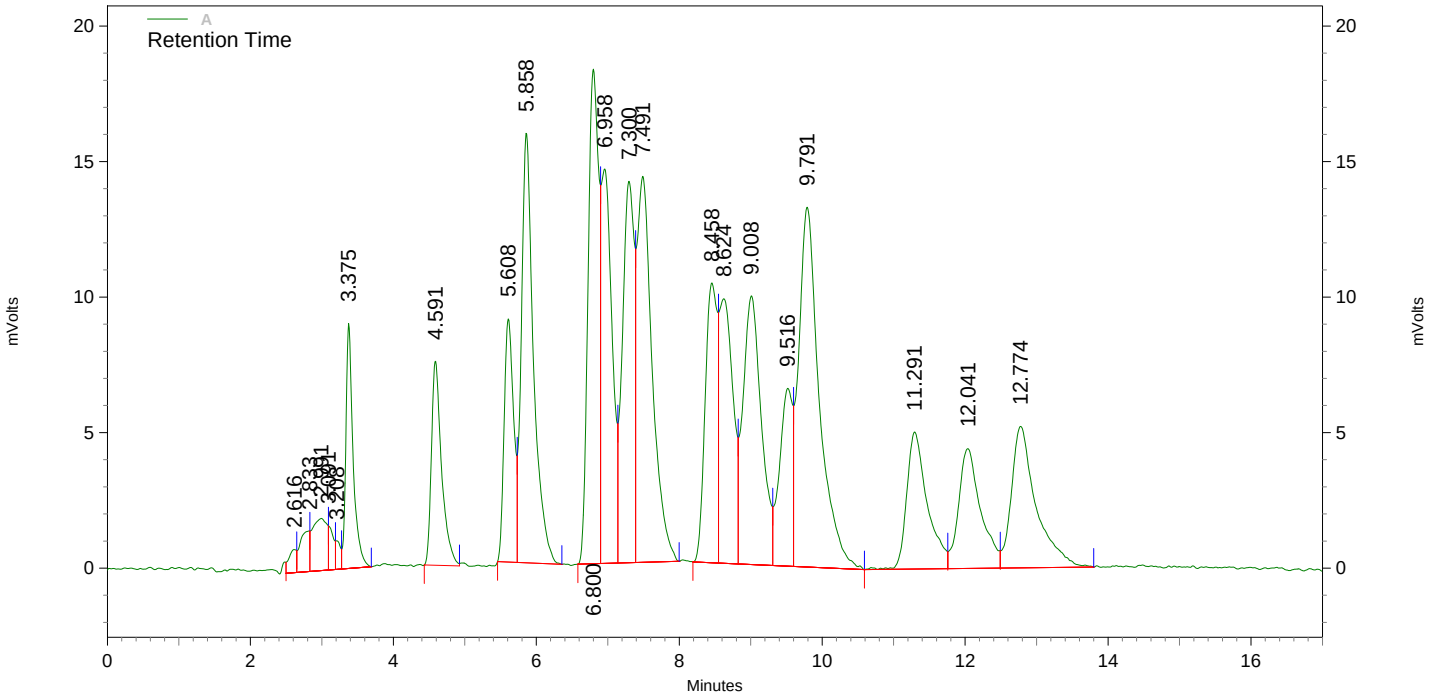
B Results

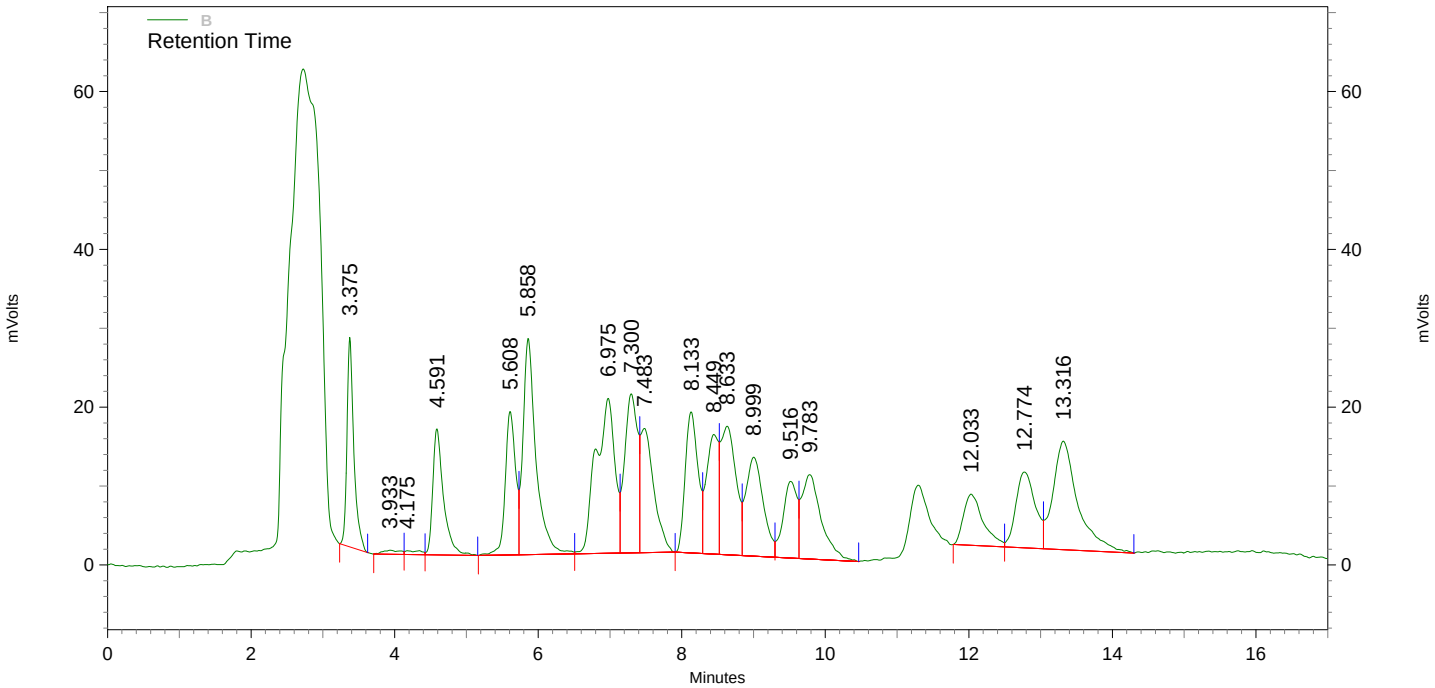
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.133	221142	**4.000 CAL**
26-DNT	9.516	130567	**1.000 CAL**
24-DNT	9.783	203954	**1.000 CAL**
PETN	13.316	331254	**4.000 CAL**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\006.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 5 EXP 5006
Acquired: Apr 25, 2013 18:01:29
Data Summary: Reason #1 applies to data. RED 4/26/2013





A Results

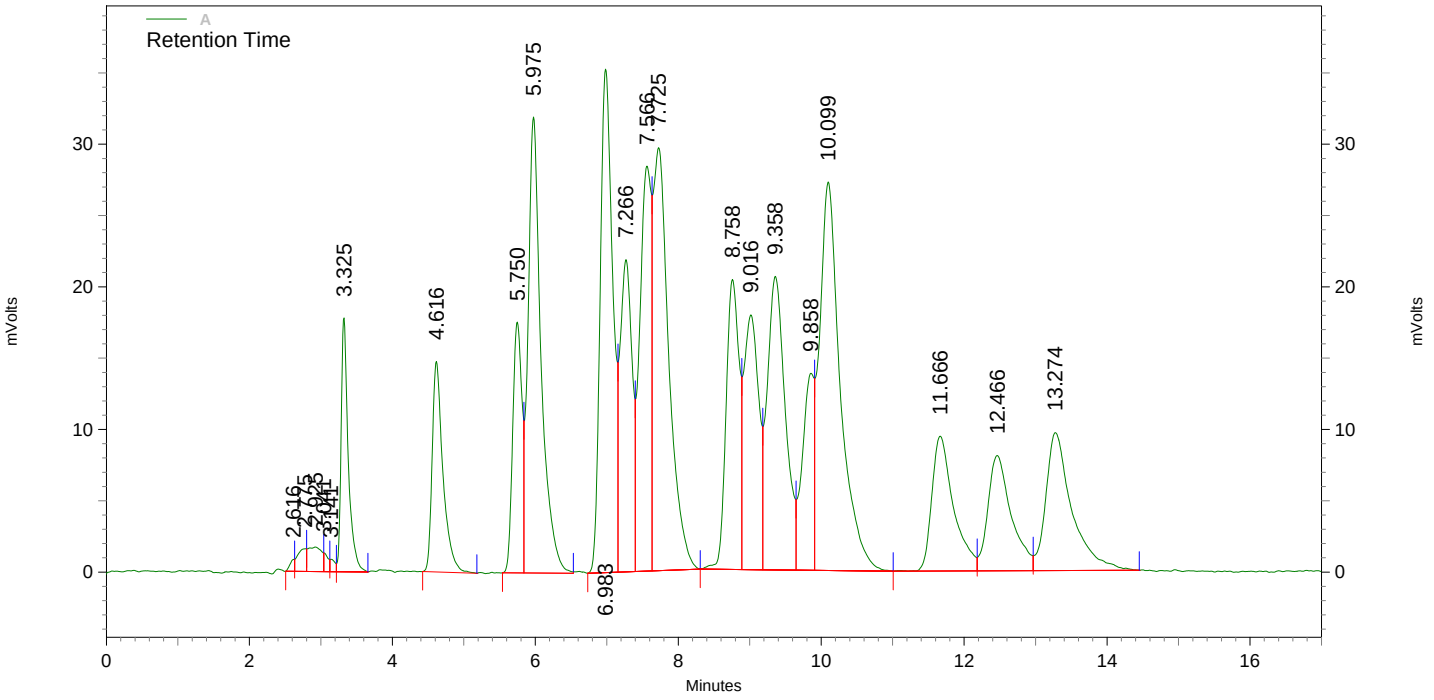
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.375	63613	**1.041**
RDX	4.591	74456	**1.032**
12-DNB (SSTD)	5.608	82859	**220.084**
135-TNB	5.858	188173	**0.998**
13-DNB	6.958	156063	**0.755**
TETRYL	7.300	162283	**1.174**
35-DNA	7.491	211282	**1.408**
NB			**0.000 BDL**
246-TNT	8.624	130720	**1.101**
4-AM-26-DNT	9.008	178311	**1.504**
2-AM-46-DNT			**0.000 BDL**
2-NT	11.291	101503	**1.159**
4-NT	12.041	95159	**1.184**
3-NT	12.774	125519	**1.071**

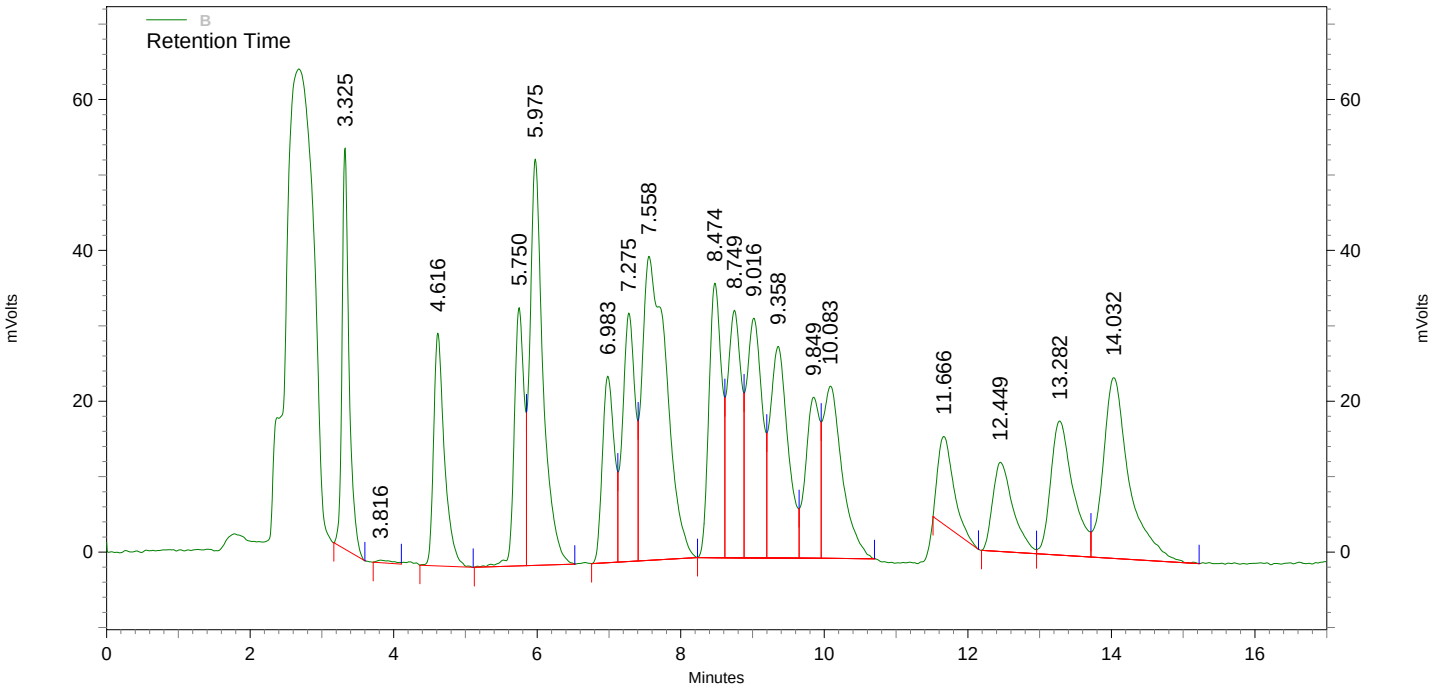
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.449	176799	**3.265**
26-DNT	9.516	130567	**1.018**
24-DNT	9.783	203954	**1.022**
PETN	13.316	331254	**4.697**

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\007.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 6 EXP 5007
Acquired: Apr 25, 2013 18:19:45
Data Summary: {Data Description}





A Results

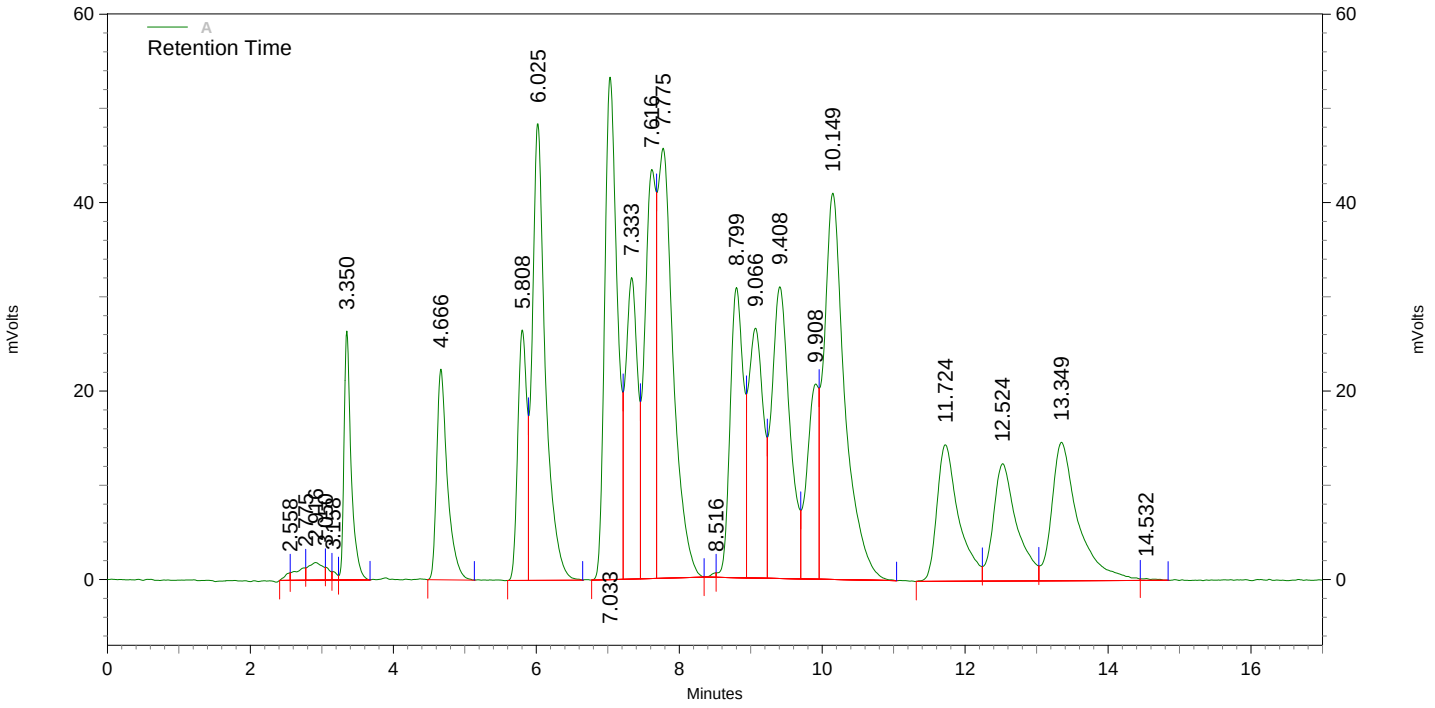
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.325	122599	**2.000 CAL**
RDX	4.616	154886	**2.000 CAL**
12-DNB (SSTD)	5.750	156906	**400.000 CAL**
135-TNB	5.975	408467	**2.000 CAL**
13-DNB	6.983	431800	**2.000 CAL**
TETRYL	7.266	255759	**2.000 CAL**
35-DNA	7.566	314546	**2.000 CAL**
NB	7.725	458950	**2.000 CAL**
246-TNT	8.758	259536	**2.000 CAL**
4-AM-26-DNT	9.016	257485	**2.000 CAL**
2-AM-46-DNT	9.358	365324	**2.000 CAL**
2-NT	11.666	200107	**2.000 CAL**
4-NT	12.466	183870	**2.000 CAL**
3-NT	13.274	244721	**2.000 CAL**

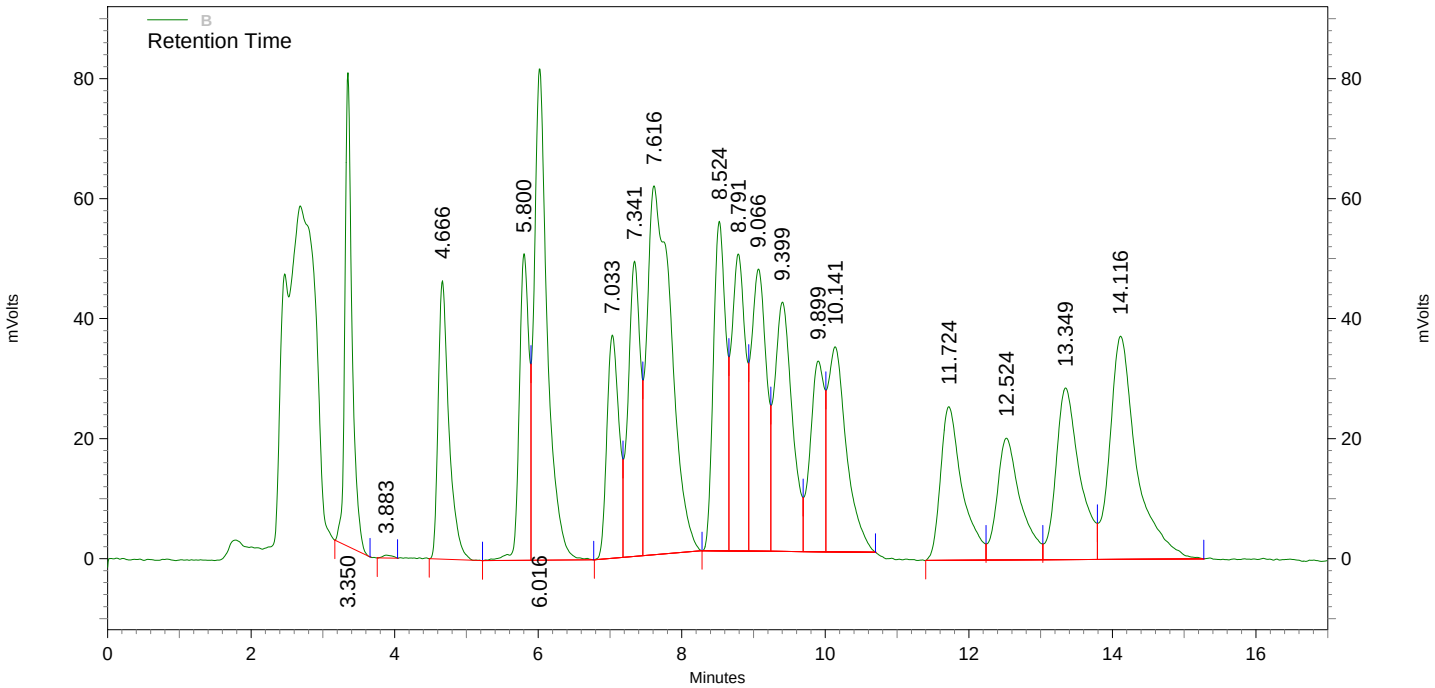
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.474	446881	**8.000 CAL**
26-DNT	9.849	292190	**2.000 CAL**
24-DNT	10.083	426827	**2.000 CAL**
PETN	14.032	605300	**8.000 CAL**

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\008.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 Pt. 7 EXP 5008
Acquired: Apr 25, 2013 18:38:02
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.350	182484	**3.000 CAL**
RDX	4.666	232843	**3.000 CAL**
12-DNB (SSTD)	5.808	231757	**600.000 CAL**
135-TNB	6.025	615555	**3.000 CAL**
13-DNB	7.033	654478	**3.000 CAL**
TETRYL	7.333	371926	**3.000 CAL**
35-DNA	7.616	465769	**3.000 CAL**
NB	7.775	699242	**3.000 CAL**
246-TNT	8.799	396194	**3.000 CAL**
4-AM-26-DNT	9.066	380507	**3.000 CAL**
2-AM-46-DNT	9.408	544680	**3.000 CAL**
2-NT	11.724	305659	**3.000 CAL**
4-NT	12.524	282870	**3.000 CAL**
3-NT	13.349	375923	**3.000 CAL**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.524	659326	**12.000 CAL**
26-DNT	9.899	435129	**3.000 CAL**
24-DNT	10.141	625281	**3.000 CAL**
PETN	14.116	963155	**12.000 CAL**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 2\Sequences\8330A_B\042513expic-primary.seq
User : RED
Printed : May 09, 2013 09:43:02

File	Sample ID	Acquired
C:\Instarch\HPLC 2\Data\042513expic-primary\009.dat	8330 ICV EXP 5009	May 09, 2013 09:43:02

A

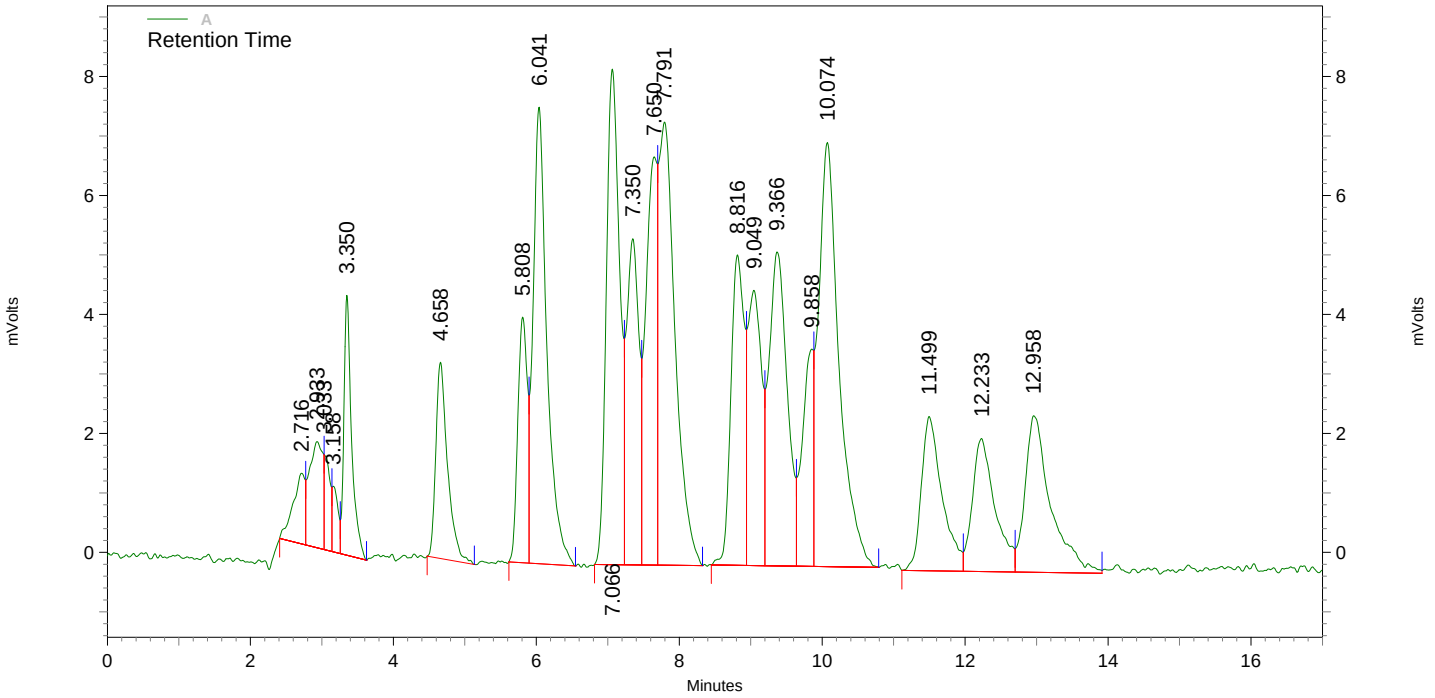
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.480	4.026	20.000	Passed
RDX	0.500	0.482	3.649	20.000	Passed
12-DNB (SSTD)	100.000	92.023	7.977	20.000	Passed
135-TNB	0.500	0.501	0.173	20.000	Passed
13-DNB	0.500	0.491	1.880	20.000	Passed
TETRYL	0.500	0.479	4.242	20.000	Passed
35-DNA	0.500	0.462	7.597	20.000	Passed
NB	0.500	0.520	4.058	20.000	Passed
246-TNT	0.500	0.507	1.393	20.000	Passed
4-AM-26-DNT	0.500	0.462	7.504	20.000	Passed
2-AM-46-DNT	0.500	0.502	0.403	20.000	Passed
2-NT	0.500	0.490	2.090	20.000	Passed
4-NT	0.500	0.505	0.989	20.000	Passed
3-NT	0.500	0.524	4.878	20.000	Passed

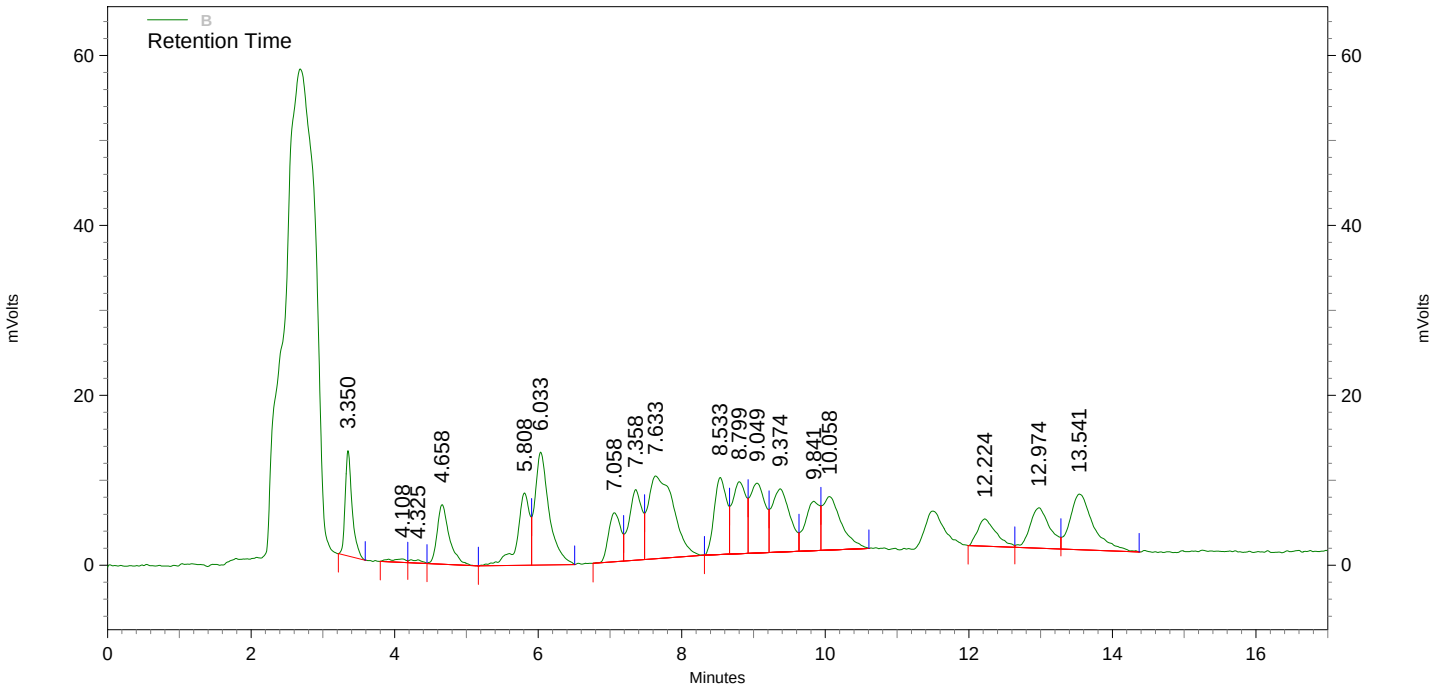
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	1.935	3.242	20.000	Passed
26-DNT	0.500	0.569	13.857	20.000	Passed
24-DNT	0.500	0.551	10.161	20.000	Passed
PETN	2.000	1.826	8.690	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\042513expic-primary\009.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\042513expic-primary.met
Sample ID: 8330 ICV EXP 5009
Acquired: Apr 25, 2013 18:56:20
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.350	32603	**0.480**
RDX	4.658	37750	**0.482**
12-DNB (SSTD)	5.808	38236	**92.023**
135-TNB	6.041	103896	**0.501**
13-DNB	7.066	107248	**0.491**
TETRYL	7.350	65709	**0.479**
35-DNA	7.650	75731	**0.462**
NB	7.791	119762	**0.520**
246-TNT	8.816	67623	**0.507**
4-AM-26-DNT	9.049	61916	**0.462**
2-AM-46-DNT	9.366	94327	**0.502**
2-NT	11.499	52546	**0.490**
4-NT	12.233	49060	**0.505**
3-NT	12.958	65488	**0.524**

B Results

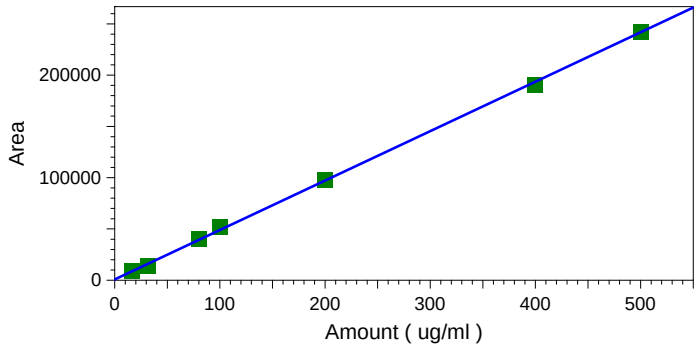
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.533	109007	**1.935**
26-DNT	9.841	81824	**0.569**
24-DNT	10.058	114223	**0.551**
PETN	13.541	148105	**1.826**

Calibration Report

Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Print Time: Dec 27, 2012 14:18:53
User: RED
Instrument: HPLC 1 (Offline)

12-DNB (SSTD) (A)
Average RF: 497.162 RF StDev: 37.9415 RF %RSD: 7.63161
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 482.126x + 732.728
Goodness of fit (r^2): 0.999541

Peak: 12-DNB (SSTD) -- ESTD -- A



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	16	32	80	100	200
Area	9077	14258	39990	51707	97775
RF	567.3125	445.5625	499.875	517.07	488.875
Last Area					
Residual	-1.30726	3.94658	-1.4254	-5.7282	-1.28006
Rep StDev					
Rep %RSD					
Rep 1 Area	9077	14258	39990	51707	97775
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 1\Data\121712nqic-primary\002.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\003.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\004.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\005.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\006.dat
Rep 1 Sample ID	NQ Pt 1 EXP 4907	NQ Pt 2 EXP 4908	NQ Pt 3 EXP 4909	NQ Pt 4 EXP 4910	NQ Pt 5 EXP 4911
Rep 1 Calib. Time	Dec 18, 2012 09:20:00	Dec 18, 2012 09:20:11	Dec 18, 2012 09:20:19	Dec 18, 2012 09:20:30	Dec 18, 2012 09:21:40

	Level 6	Level 7
Amount	400	500
Area	190484	242615

Calibration Report

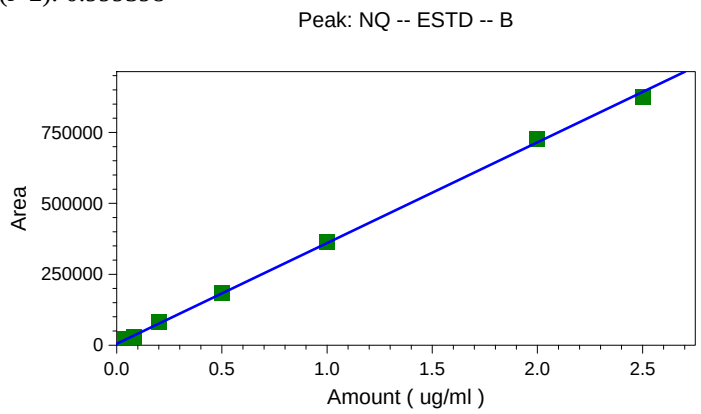
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Print Time: Dec 27, 2012 14:18:53
User: RED
Instrument: HPLC 1 (Offline)

RF	476.21	485.23
Last Area		
Residual	6.42773	-1.69969
Rep StDev		
Rep %RSD		
Rep 1 Area	190484	242615
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 1\Data\121712nqic-primary\007.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\008.dat
Rep 1 Sample ID	NQ Pt 6 EXP 4912	NQ Pt 7 EXP 4913
Rep 1 Calib. Time	Dec 18, 2012 09:21:51	Dec 18, 2012 09:22:01

Calibration Report

Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Print Time: Dec 27, 2012 14:19:12
User: RED
Instrument: HPLC 1 (Offline)

NQ (B)
Average RF: 391692. RF StDev: 64086.6 RF %RSD: 16.3615
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 355065.x + 5125.81
Goodness of fit (r^2): 0.999398



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.04	0.08	0.2	0.5	1
Area	21290	28788	80427	185557	362780
RF	532250	359850	402135	371114	362780
Last Area					
Residual	-0.00552466	0.013358	-0.0120775	-0.00816453	-0.00729354
Rep StDev					
Rep %RSD					
Rep 1 Area	21290	28788	80427	185557	362780
Rep 1 User	RED	RED	RED	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 1\Data\121712nqic-primary\002.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\003.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\004.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\005.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\006.dat
Rep 1 Sample ID	NQ Pt 1 EXP 4907	NQ Pt 2 EXP 4908	NQ Pt 3 EXP 4909	NQ Pt 4 EXP 4910	NQ Pt 5 EXP 4911
Rep 1 Calib. Time	Dec 18, 2012 09:20:00	Dec 18, 2012 09:20:11	Dec 18, 2012 09:20:19	Dec 18, 2012 09:20:30	Dec 18, 2012 09:21:40

	Level 6	Level 7
Amount	2	2.5
Area	726090	876669

Calibration Report

Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Print Time: Dec 27, 2012 14:19:12
User: RED
Instrument: HPLC 1 (Offline)

RF	363045	350667.6
Last Area Residual	-0.030516	0.0453948
Rep StDev		
Rep %RSD		
Rep 1 Area	726090	876669
Rep 1 User	RED	RED
Rep 1 Data File	C:\Instarch\HPLC 1\Data\121712nqic-primary\007.dat	C:\Instarch\HPLC 1\Data\121712nqic-primary\008.dat
Rep 1 Sample ID	NQ Pt 6 EXP 4912	NQ Pt 7 EXP 4913
Rep 1 Calib. Time	Dec 18, 2012 09:21:51	Dec 18, 2012 09:22:01

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\121712NQic-primary.seq
User : RED
Printed : Dec 18, 2012 09:43:41

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\121712nqic-primary\002.dat	NQ Pt 1 EXP 4907	Dec 18, 2012 09:43:40

A

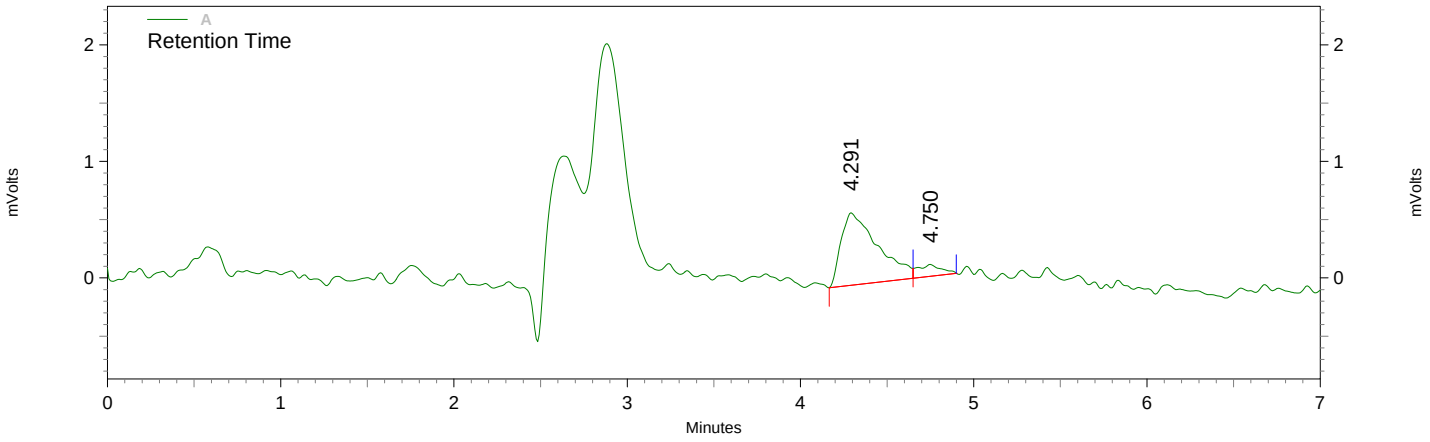
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	16.000	17.307	8.170	20.000	Passed

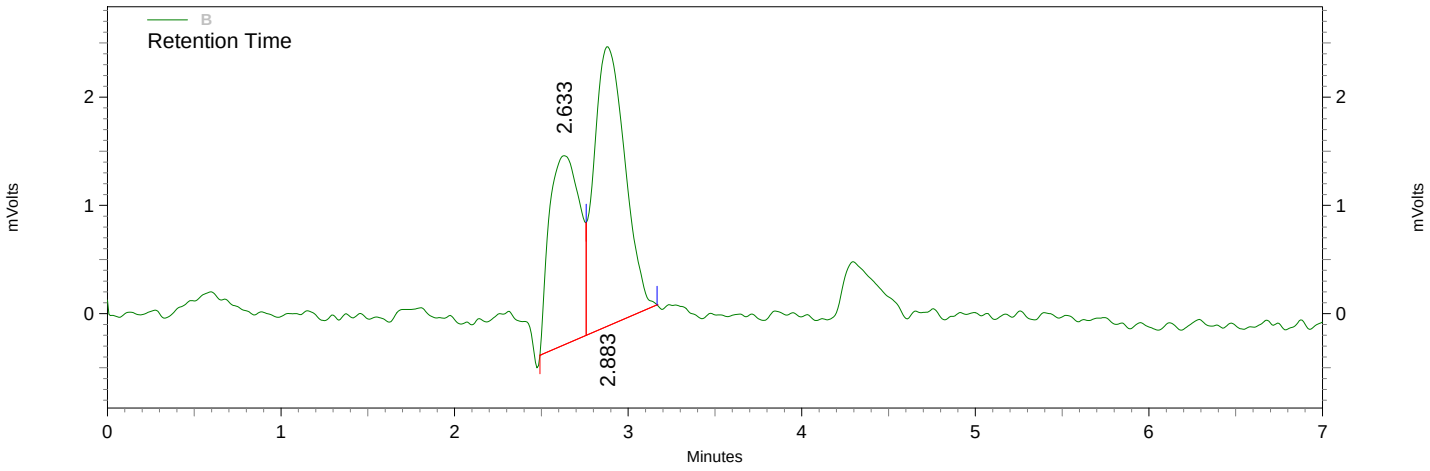
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.040	0.046	13.812	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\002.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 1 EXP 4907
Acquired: Dec 17, 2012 16:03:05
Data Summary: {Data Description}





A Results

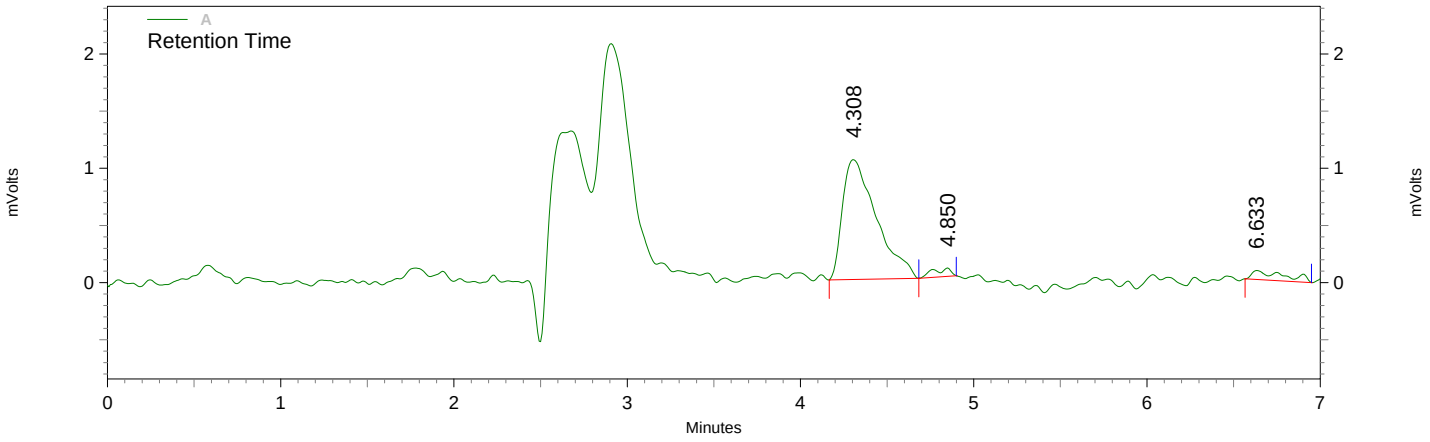
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.291	9077	**17.307**

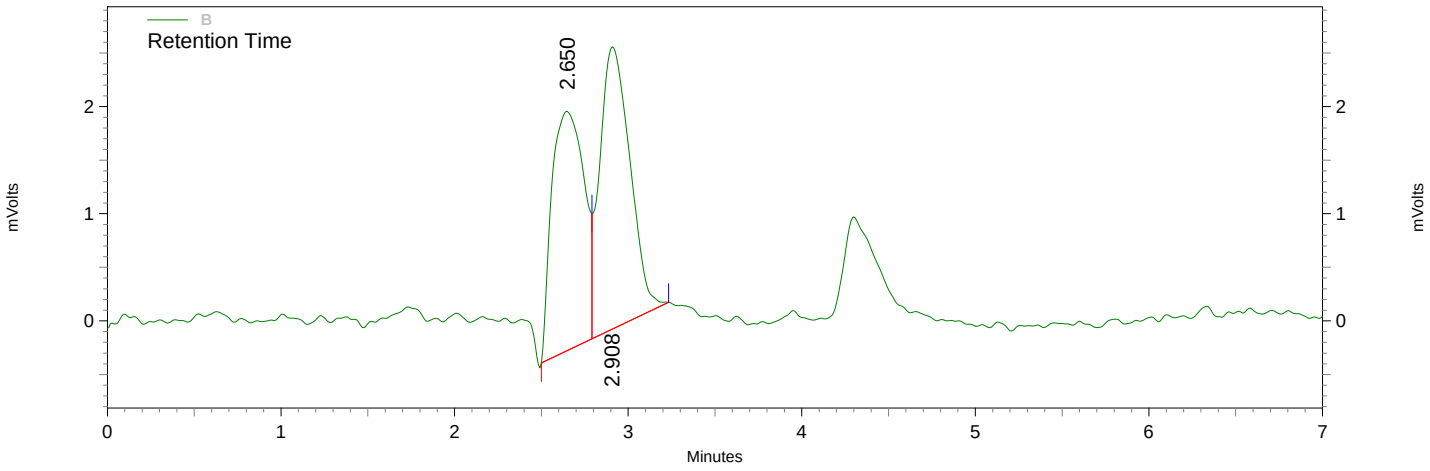
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.633	21290	**0.046**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\003.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 2 EXP 4908
Acquired: Dec 17, 2012 16:11:47
Data Summary: {Data Description}





A Results

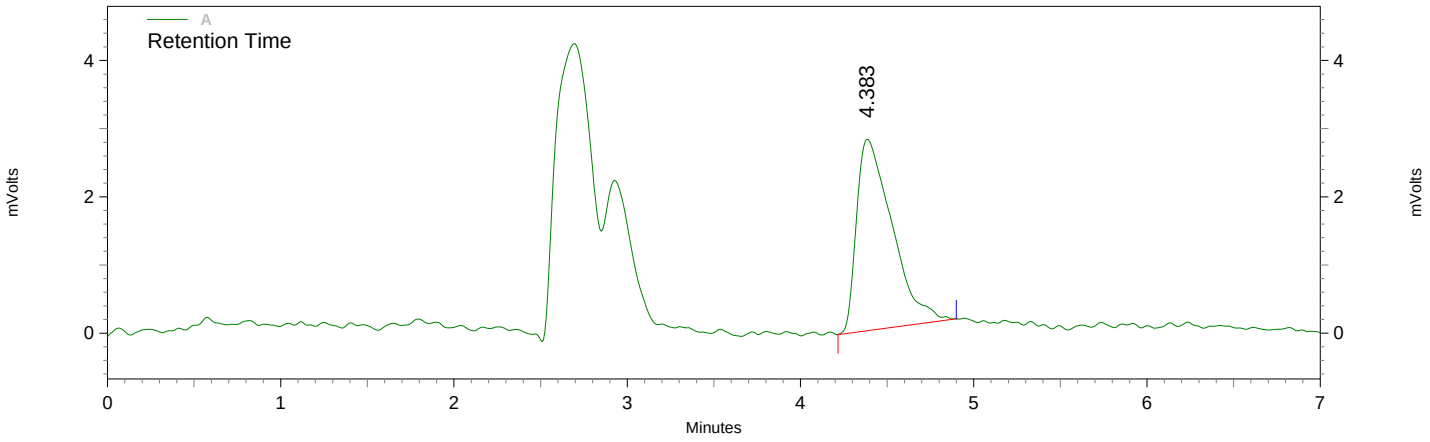
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.308	14258	**32.000 CAL**

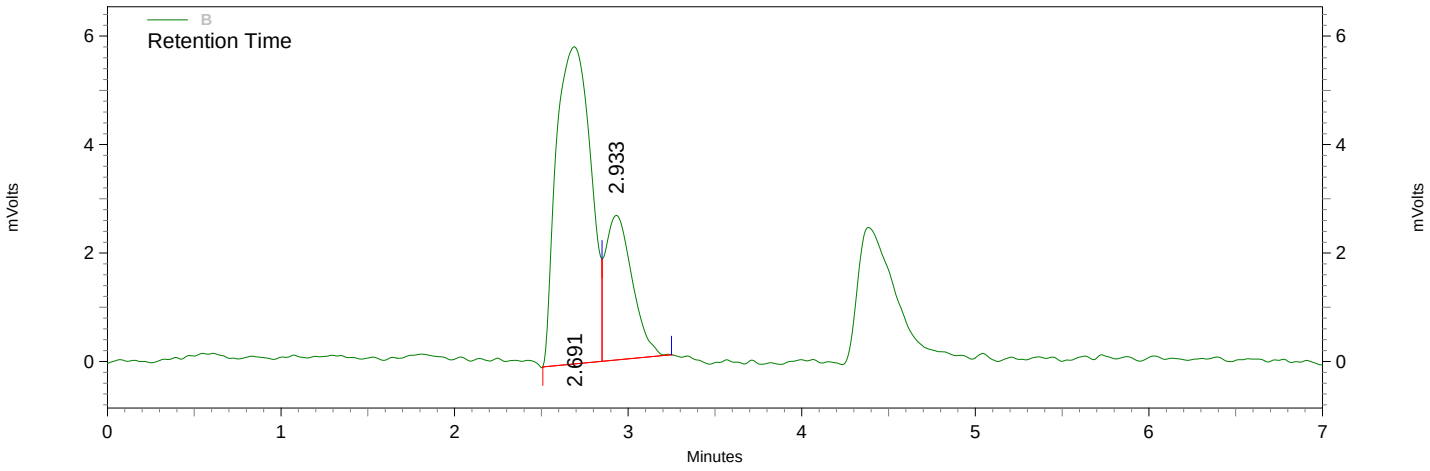
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.650	28788	**0.080 CAL**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\004.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 3 EXP 4909
Acquired: Dec 17, 2012 16:20:28
Data Summary: {Data Description}





A Results

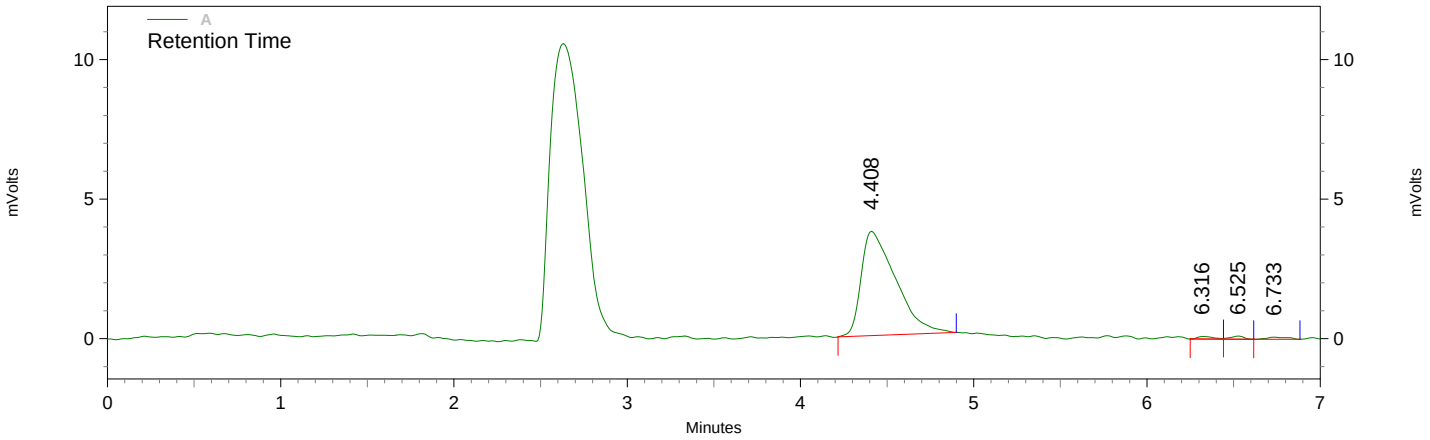
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.383	39990	**80.000 CAL**

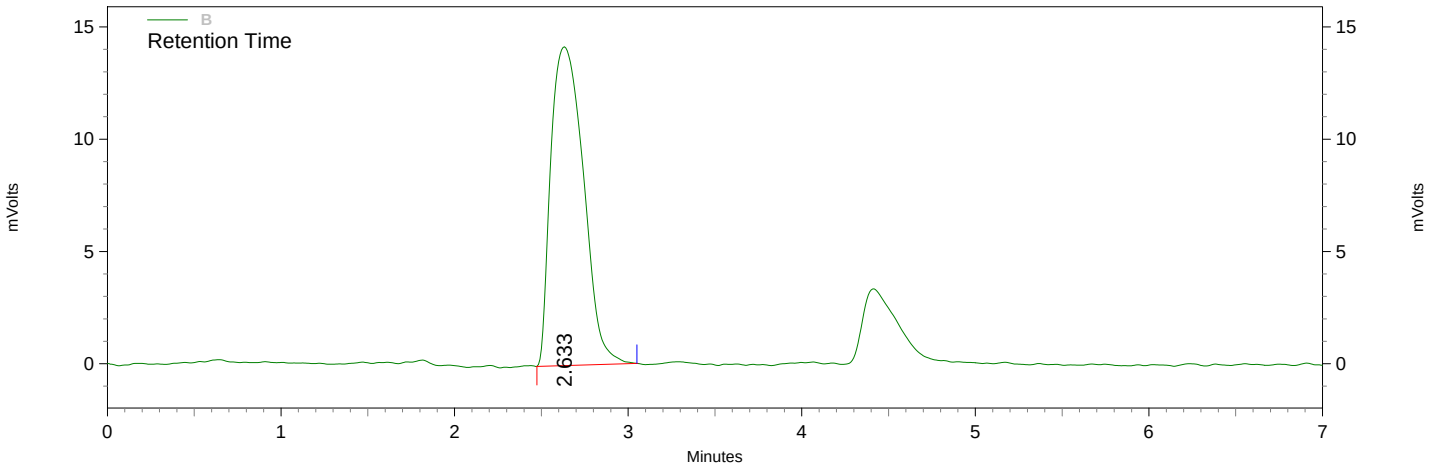
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.691	80427	**0.200 CAL**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\005.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 4 EXP 4910
Acquired: Dec 17, 2012 16:29:10
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.408	51707	**100.000 CAL**

B Results

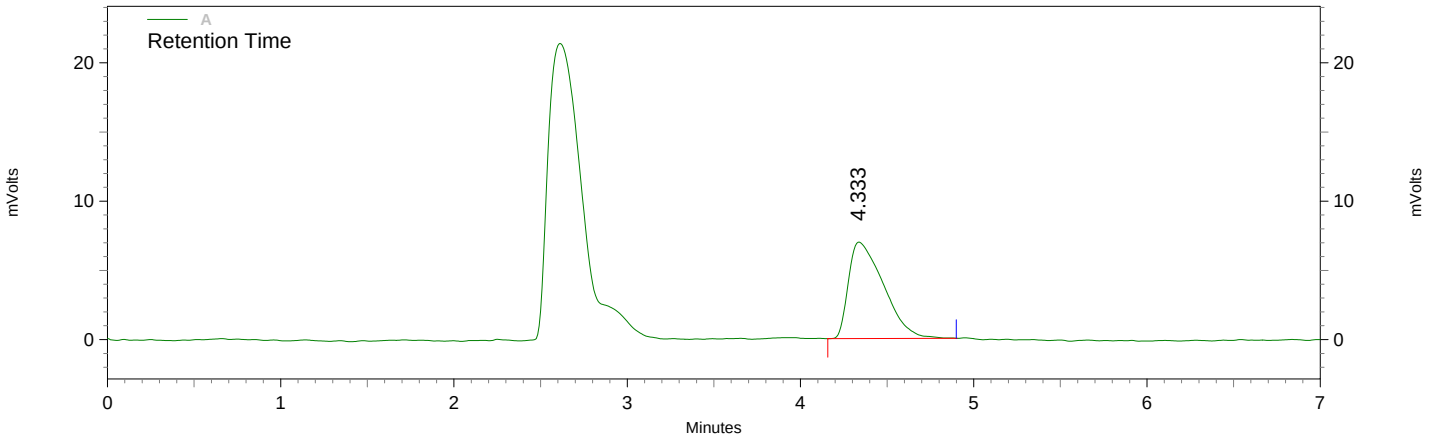
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.633	185557	**0.500 CAL**

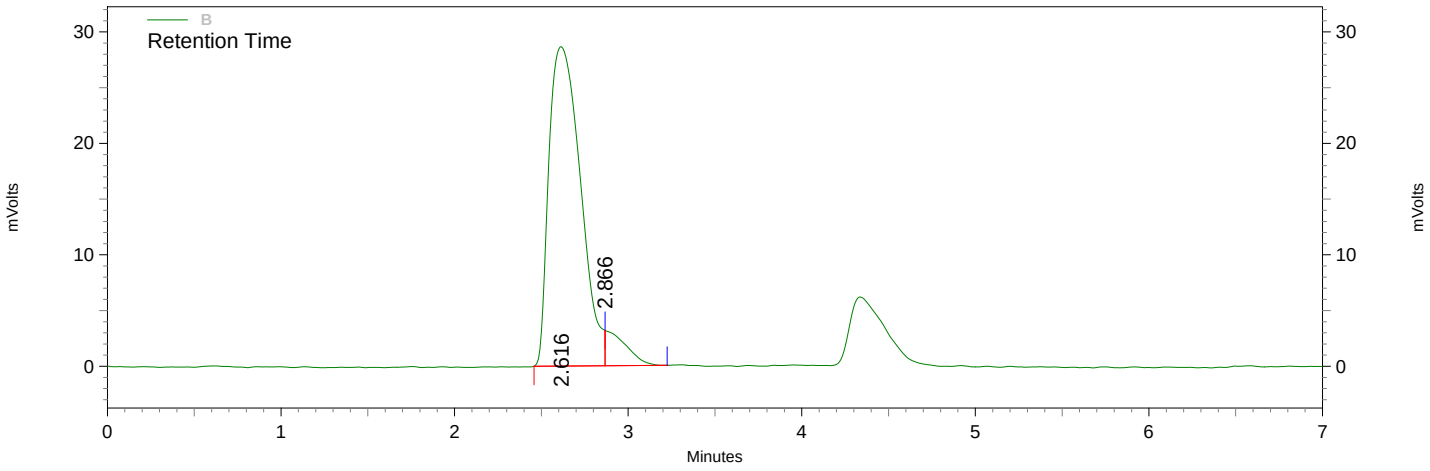
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\006.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 5 EXP 4911
Acquired: Dec 17, 2012 16:37:51
Data Summary: Reason #3 applies to data. RED 12/18/2012

12/19/2012





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.333	97775	**200.000 CAL**

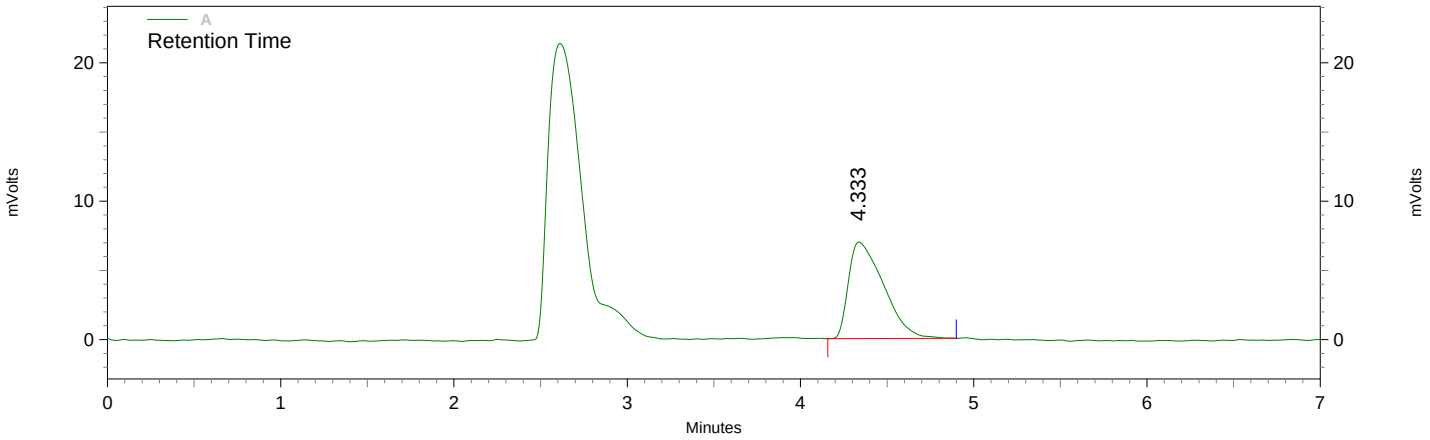
B Results

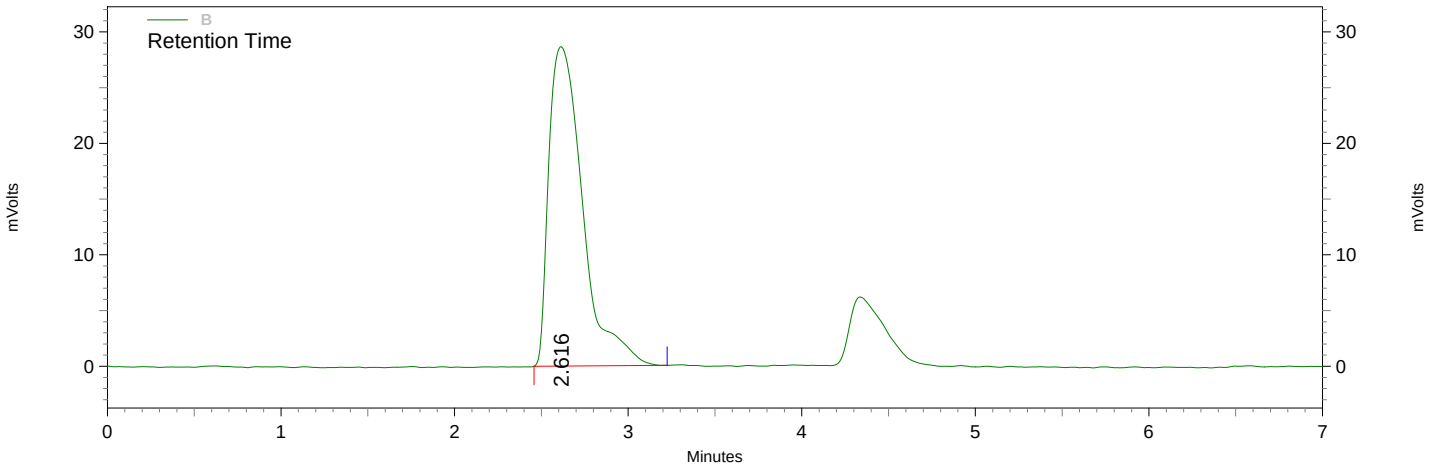
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.616	362780	**1.000 CAL**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\006.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 5 EXP 4911
Acquired: Dec 17, 2012 16:37:51
Data Summary: Reason #3 applies to data. RED 12/18/2012





A Results

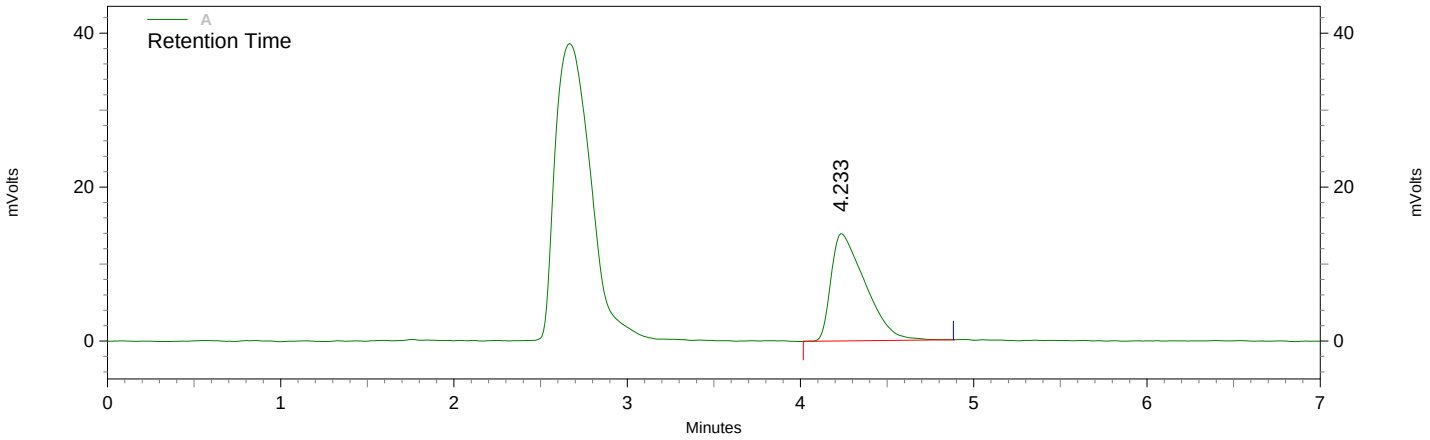
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.333	97775	**194.853**

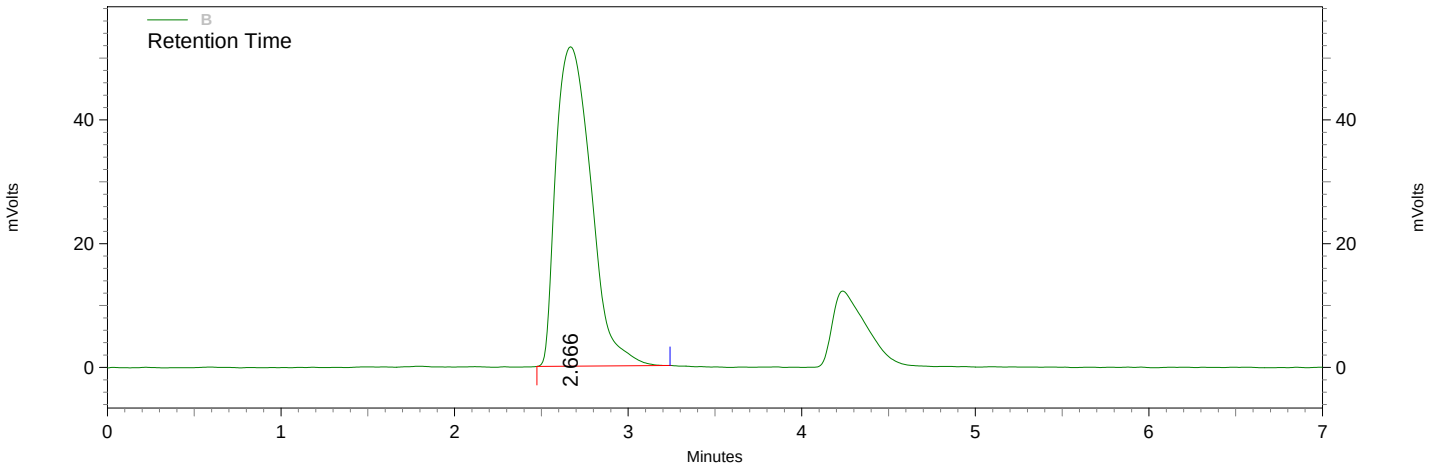
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.616	388912	**1.059**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\007.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 6 EXP 4912
Acquired: Dec 17, 2012 16:46:33
Data Summary: {Data Description}





A Results

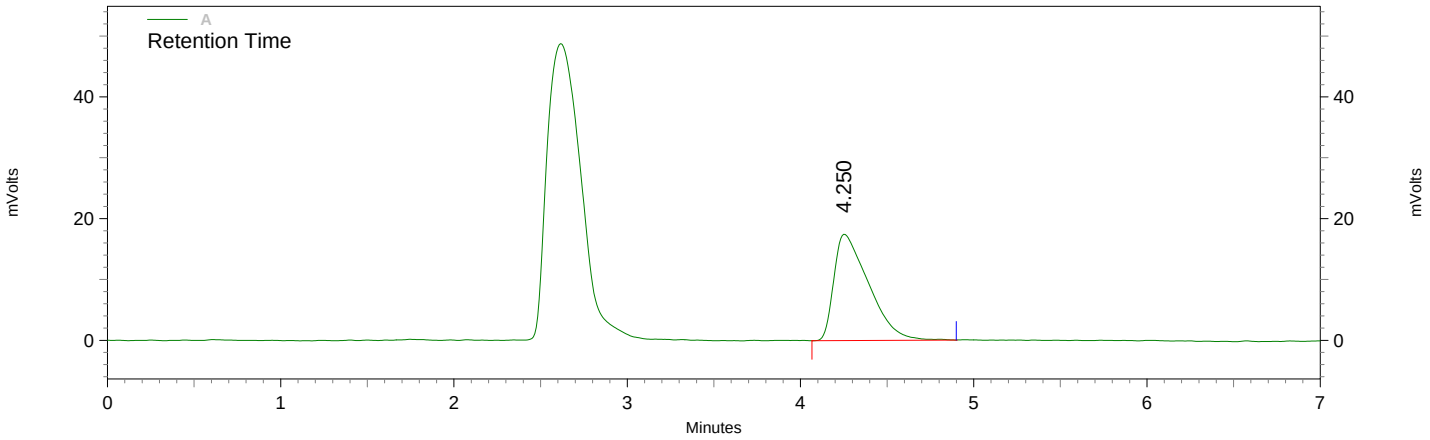
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.233	190484	**400.000 CAL**

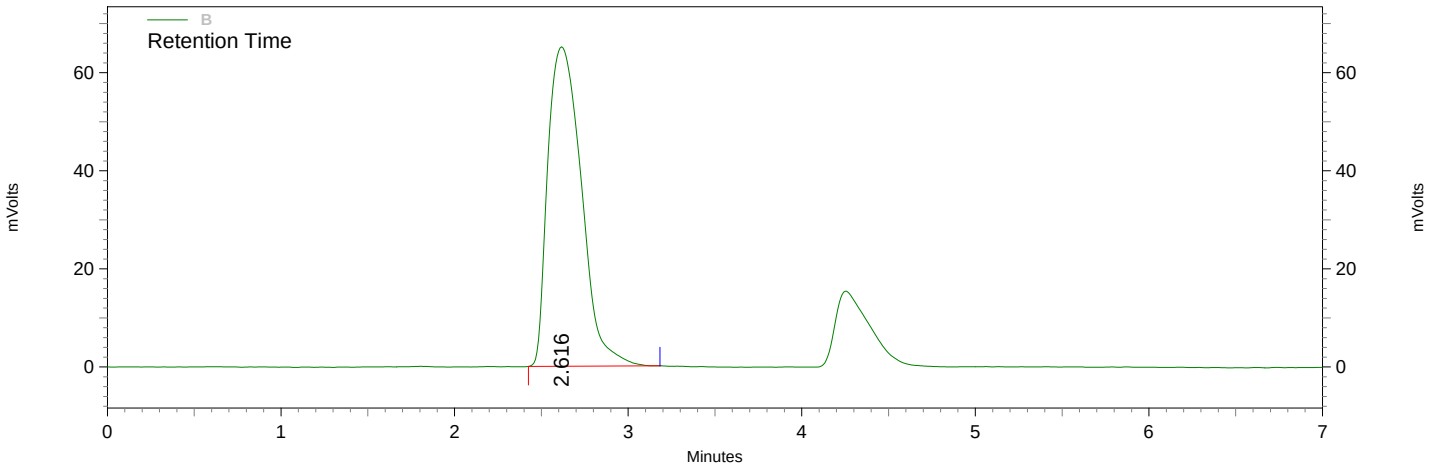
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.666	726090	**2.000 CAL**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\008.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ Pt 7 EXP 4913
Acquired: Dec 17, 2012 16:55:14
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.250	242615	**500.000 CAL**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.616	876669	**2.500 CAL**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\121712NQic-primary.seq
User : RED
Printed : Dec 18, 2012 09:44:05

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\121712nqic-primary\009.dat	NQ ICV EXP 4914	Dec 18, 2012 09:44:05

A

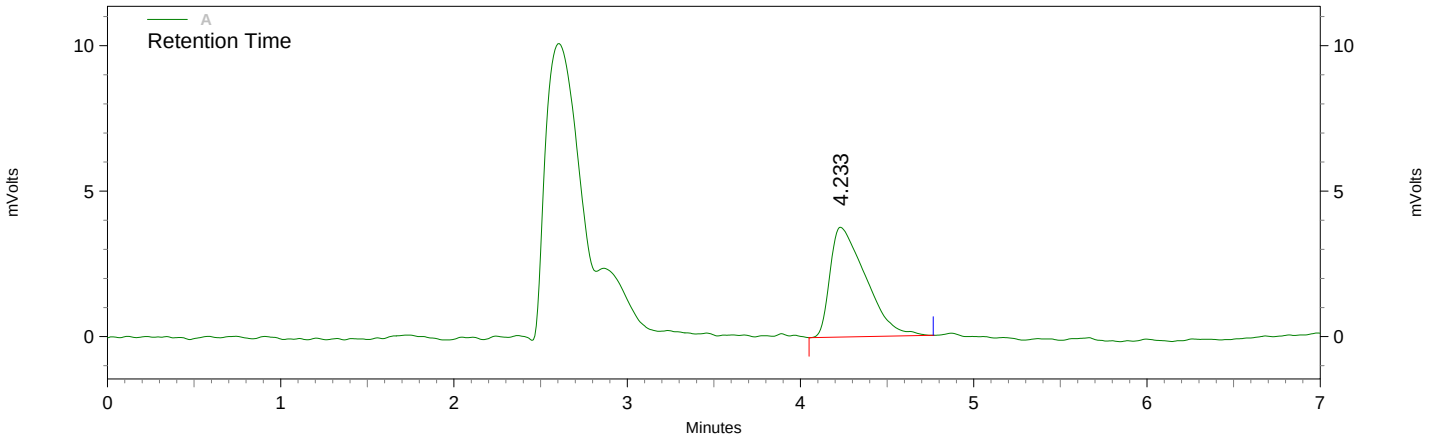
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	100.000	110.059	10.059	20.000	Passed

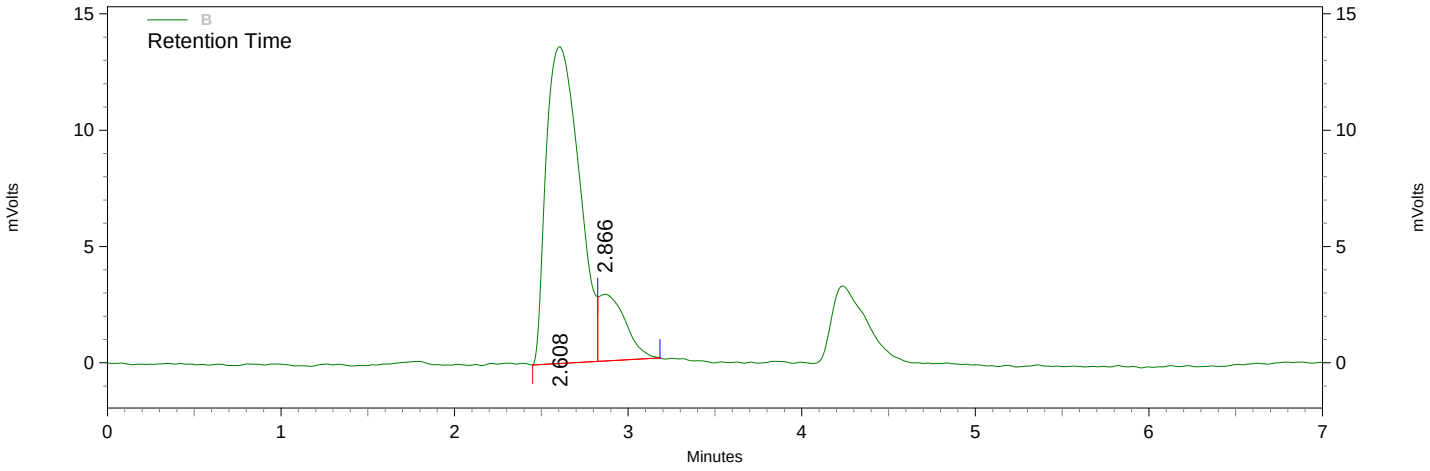
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.493	1.481	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\121712nqic-primary\009.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\121712NQic-primary.met
Sample ID: NQ ICV EXP 4914
Acquired: Dec 17, 2012 17:03:55
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.233	53795	**110.059**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.608	180028	**0.493**

NITROAROMATICS ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

QC Check Standard Report

Sequence : C:\Instarch\HPLC 2\Sequences\8330A_B\082813exp-primary.seq
User : RED
Printed : Sep 05, 2013 10:12:40

RED
09/06/2013

File	Sample ID	Acquired
C:\Instarch\HPLC 2\Data\082813exp-primary\002.dat	8330 CCV EXP 5071	Sep 05, 2013 10:12:40

A

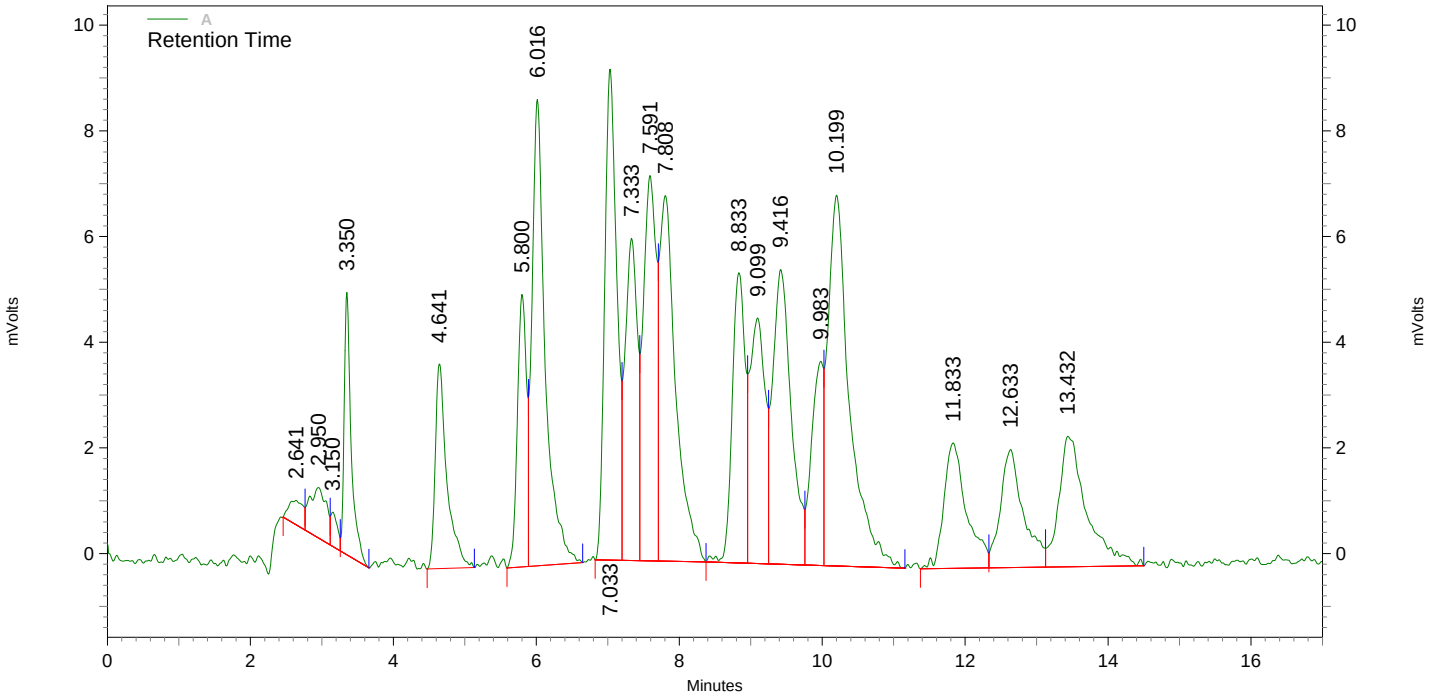
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.495	1.043	20.000	Passed
RDX	0.500	0.567	13.391	20.000	Passed
12-DNB (SSTD)	100.000	111.693	11.693	20.000	Passed
135-TNB	0.500	0.551	10.289	20.000	Passed
13-DNB	0.500	0.497	0.630	20.000	Passed
TETRYL	0.500	0.534	6.804	20.000	Passed
35-DNA	0.500	0.571	14.111	20.000	Passed
NB	0.500	0.477	4.654	20.000	Passed
246-TNT	0.500	0.517	3.438	20.000	Passed
4-AM-26-DNT	0.500	0.514	2.870	20.000	Passed
2-AM-46-DNT	0.500	0.540	7.990	20.000	Passed
2-NT	0.500	0.486	2.870	20.000	Passed
4-NT	0.500	0.515	2.934	20.000	Passed
3-NT	0.500	0.539	7.702	20.000	Passed

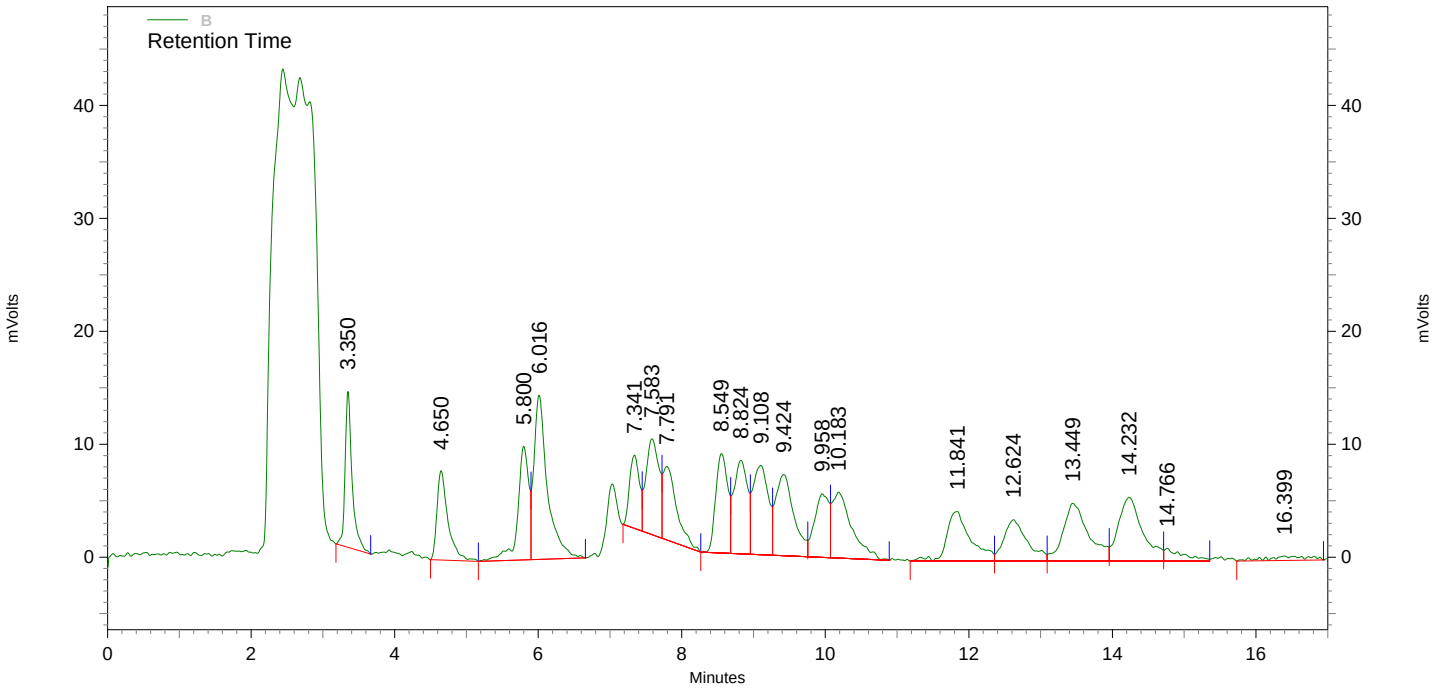
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	1.818	9.114	20.000	Passed
26-DNT	0.500	0.547	9.485	20.000	Passed
24-DNT	0.500	0.538	7.629	20.000	Passed
PETN	2.000	1.614	19.316	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\002.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 CCV EXP 5071
Acquired: Aug 28, 2013 09:45:58
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.350	33486	**0.495**
RDX	4.641	44230	**0.567**
12-DNB (SSTD)	5.800	45781	**111.693**
135-TNB	6.016	113938	**0.551**
13-DNB	7.033	108568	**0.497**
TETRYL	7.333	72717	**0.534**
35-DNA	7.591	92476	**0.571**
NB	7.808	109895	**0.477**
246-TNT	8.833	68920	**0.517**
4-AM-26-DNT	9.099	68419	**0.514**
2-AM-46-DNT	9.416	101086	**0.540**
2-NT	11.833	52160	**0.486**
4-NT	12.633	49960	**0.515**
3-NT	13.432	67243	**0.539**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.549	102597	**1.818**
26-DNT	9.958	78712	**0.547**
24-DNT	10.183	111567	**0.538**
PETN	14.232	131565	**1.614**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 2\Sequences\8330A_B\082813exp-primary.seq
User : RED
Printed : Sep 05, 2013 10:13:12

File	Sample ID	Acquired
C:\Instarch\HPLC 2\Data\082813exp-primary\012.dat	8330 CCV EXP 5071	Sep 05, 2013 10:13:12

A

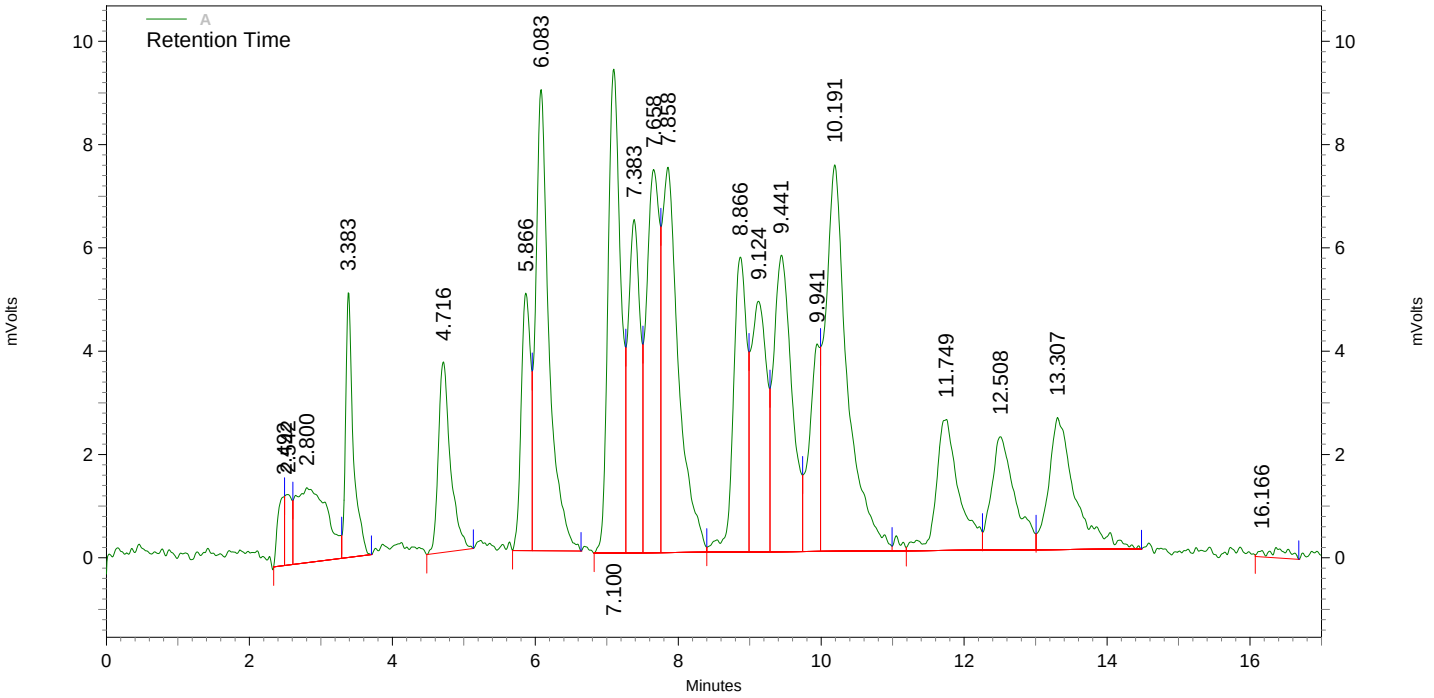
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.571	14.297	20.000	Passed
RDX	0.500	0.556	11.108	20.000	Passed
12-DNB (SSTD)	100.000	111.080	11.080	20.000	Passed
135-TNB	0.500	0.564	12.864	20.000	Passed
13-DNB	0.500	0.527	5.450	20.000	Passed
TETRYL	0.500	0.556	11.167	20.000	Passed
35-DNA	0.500	0.578	15.565	20.000	Passed
NB	0.500	0.524	4.794	20.000	Passed
246-TNT	0.500	0.560	12.051	20.000	Passed
4-AM-26-DNT	0.500	0.552	10.325	20.000	Passed
2-AM-46-DNT	0.500	0.548	9.642	20.000	Passed
2-NT	0.500	0.531	6.252	20.000	Passed
4-NT	0.500	0.511	2.119	20.000	Passed
3-NT	0.500	0.527	5.324	20.000	Passed

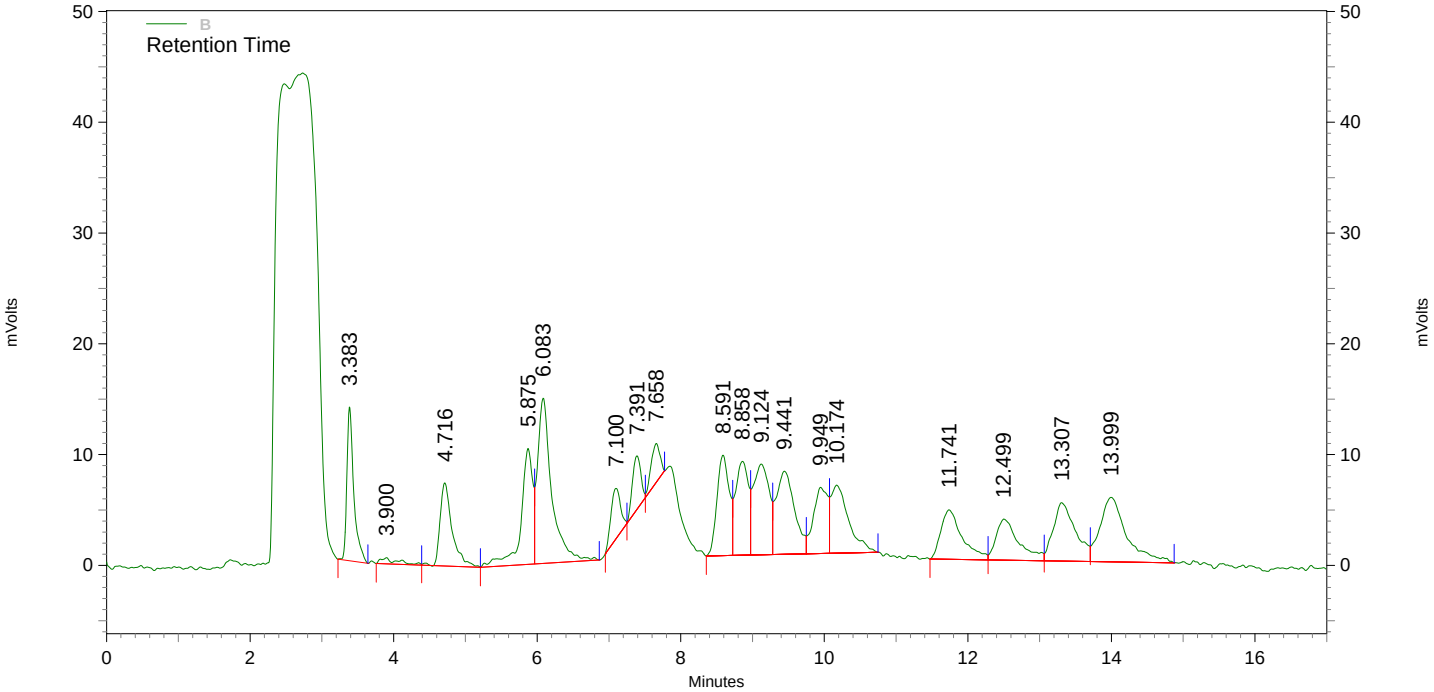
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	1.922	3.899	20.000	Passed
26-DNT	0.500	0.583	16.512	20.000	Passed
24-DNT	0.500	0.510	2.050	20.000	Passed
PETN	2.000	1.842	7.890	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\012.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 CCV EXP 5071
Acquired: Aug 28, 2013 12:49:39
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.383	38026	**0.571**
RDX	4.716	43362	**0.556**
12-DNB (SSTD)	5.866	45546	**111.080**
135-TNB	6.083	116494	**0.564**
13-DNB	7.100	114989	**0.527**
TETRYL	7.383	75485	**0.556**
35-DNA	7.658	93598	**0.578**
NB	7.858	120596	**0.524**
246-TNT	8.866	74381	**0.560**
4-AM-26-DNT	9.124	73092	**0.552**
2-AM-46-DNT	9.441	102558	**0.548**
2-NT	11.749	56670	**0.531**
4-NT	12.508	49583	**0.511**
3-NT	13.307	65765	**0.527**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.591	108290	**1.922**
26-DNT	9.949	83713	**0.583**
24-DNT	10.174	105716	**0.510**
PETN	13.999	149349	**1.842**

QC Check Standard Report

RED 09/06/2013

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User : RED
Printed : Aug 29, 2013 09:50:09

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\002.dat	NQ CCV EXP 5072	Aug 29, 2013 09:50:08

A

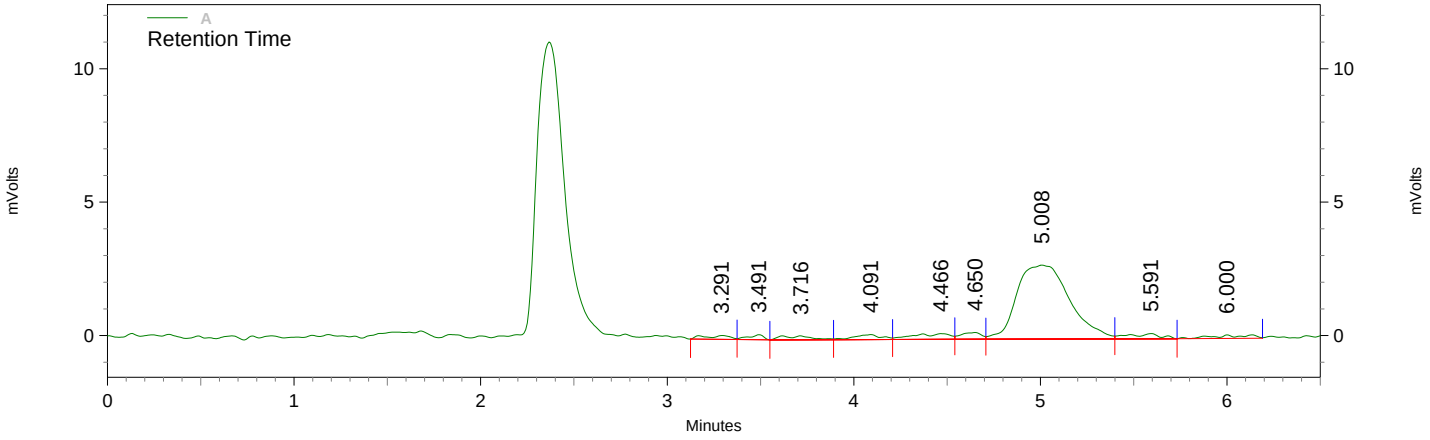
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	100.000	111.308	11.308	20.000	Passed

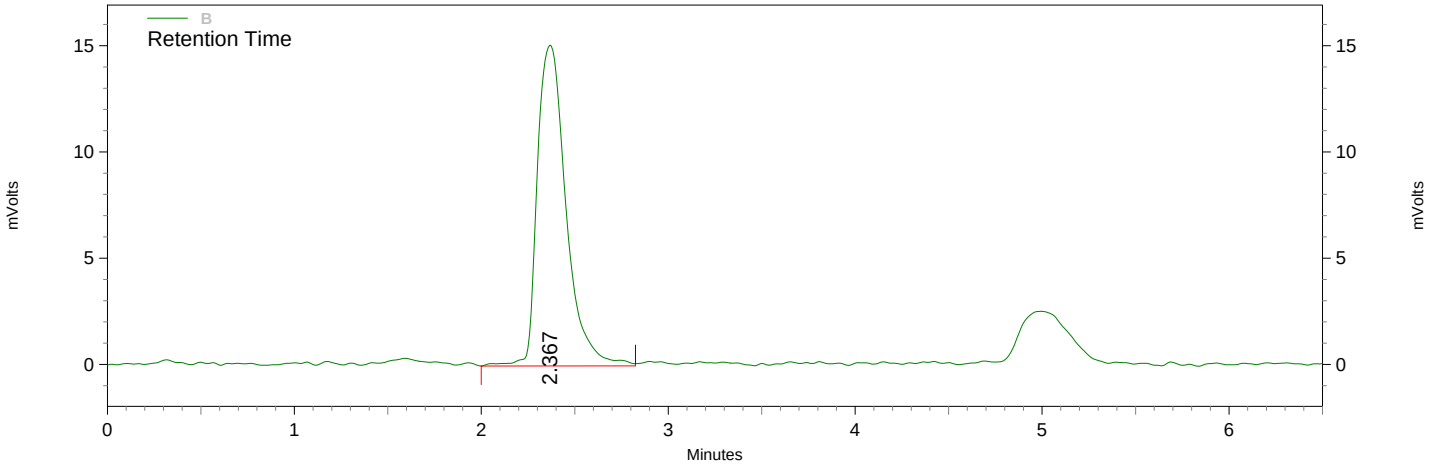
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.438	12.499	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\002.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ CCV EXP 5072
Acquired: Aug 28, 2013 09:55:10
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.008	54397	**111.308**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.367	161954	**0.438**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User : RED
Printed : Aug 29, 2013 09:50:41

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\015.dat	NQ CCV EXP 5072	Aug 29, 2013 09:50:41

A

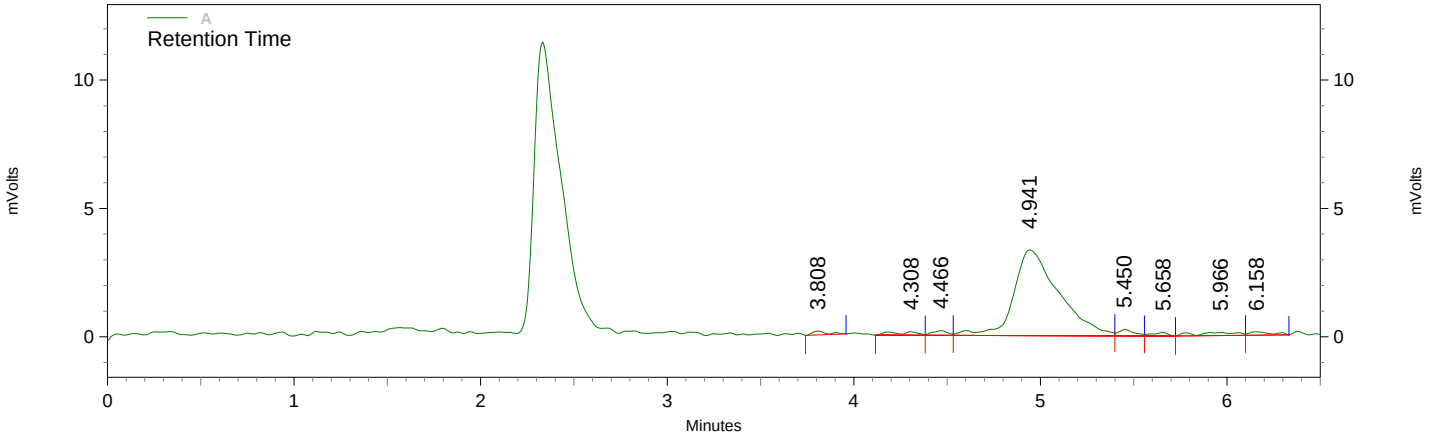
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	100.000	114.014	14.014	20.000	Passed

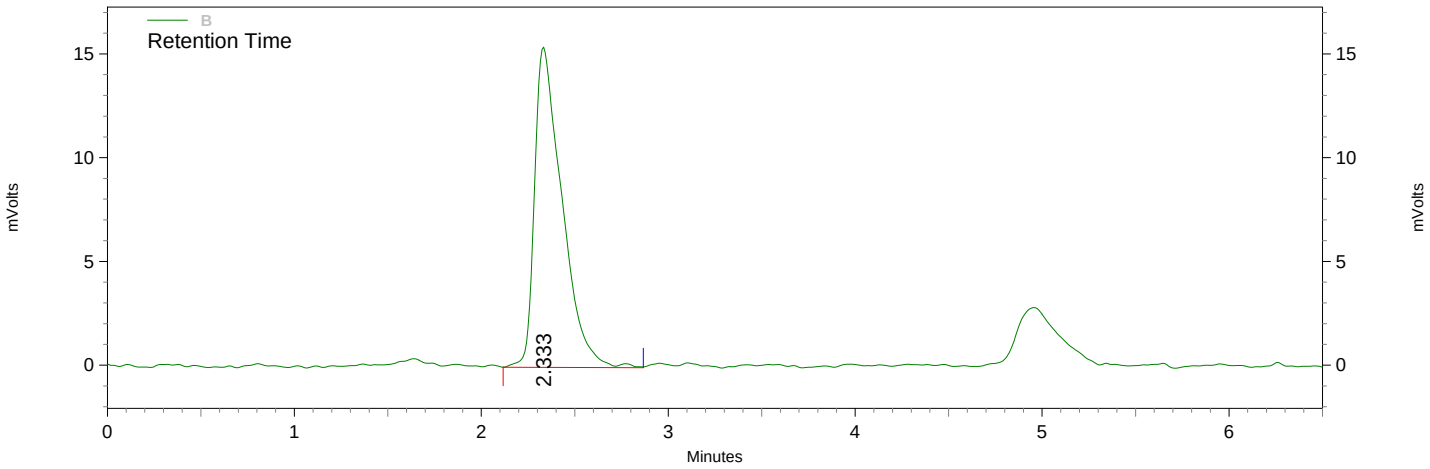
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.426	14.789	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\015.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ CCV EXP 5072
Acquired: Aug 28, 2013 11:41:44
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.941	55702	**114.014**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.333	157919	**0.426**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User : RED
Printed : Aug 29, 2013 09:51:37

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\037.dat	NQ CCV EXP 5072	Aug 29, 2013 09:51:37

A

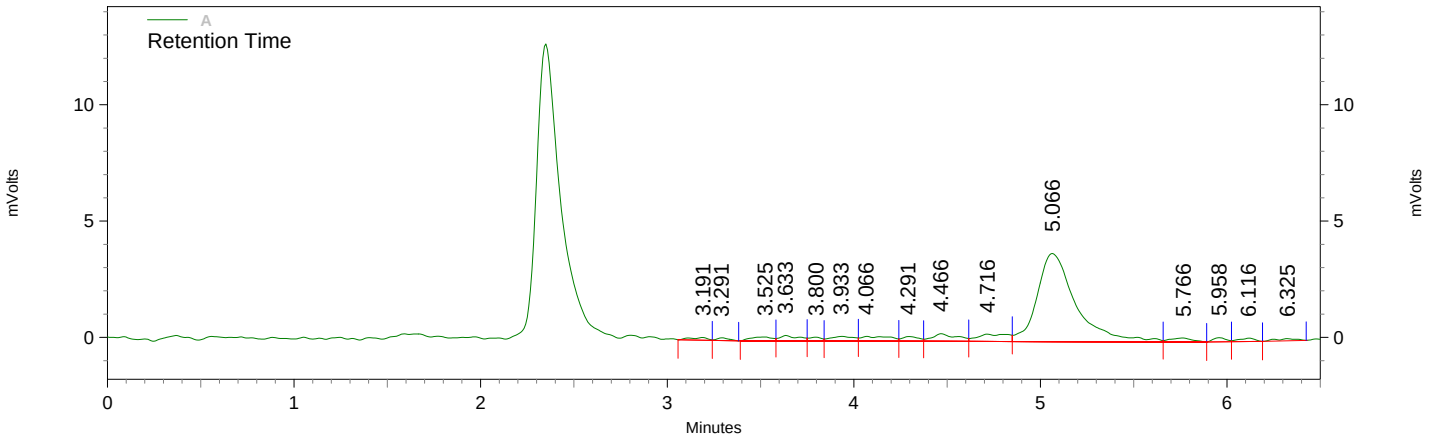
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	100.000	111.009	11.009	20.000	Passed

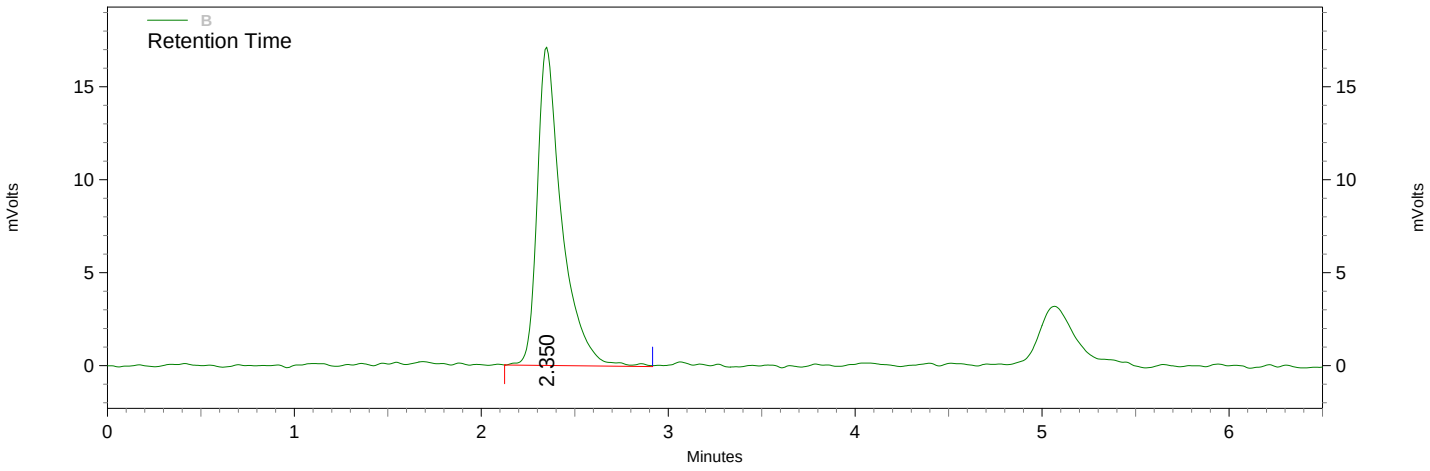
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.421	15.843	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\037.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ CCV EXP 5072
Acquired: Aug 28, 2013 14:41:58
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.066	54253	**111.009**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.350	156062	**0.421**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User : RED
Printed : Aug 29, 2013 09:52:05

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\048.dat	NQ CCV EXP 5072	Aug 29, 2013 09:52:05

A

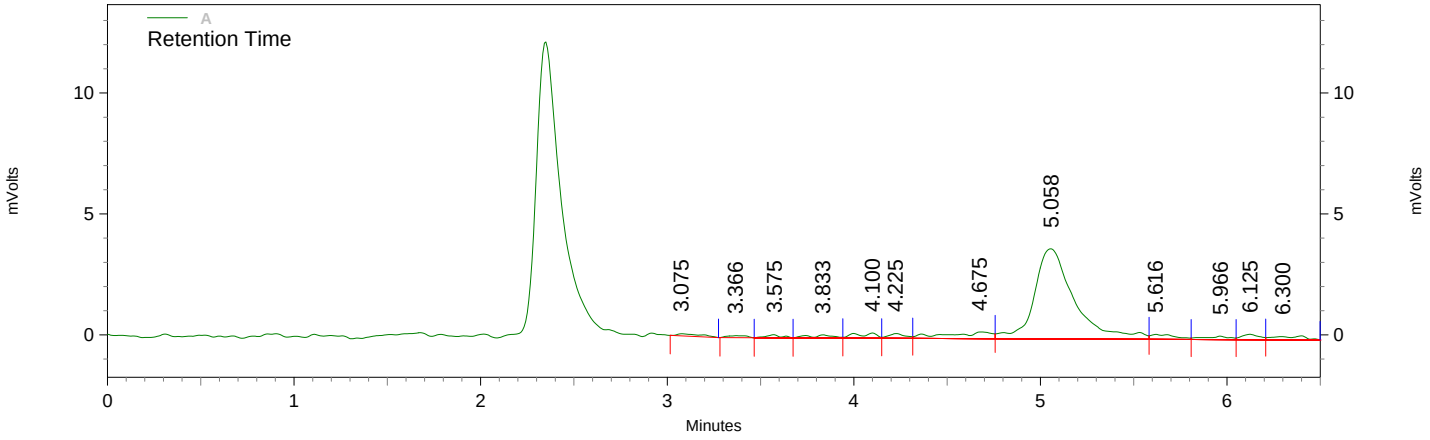
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	100.000	112.975	12.975	20.000	Passed

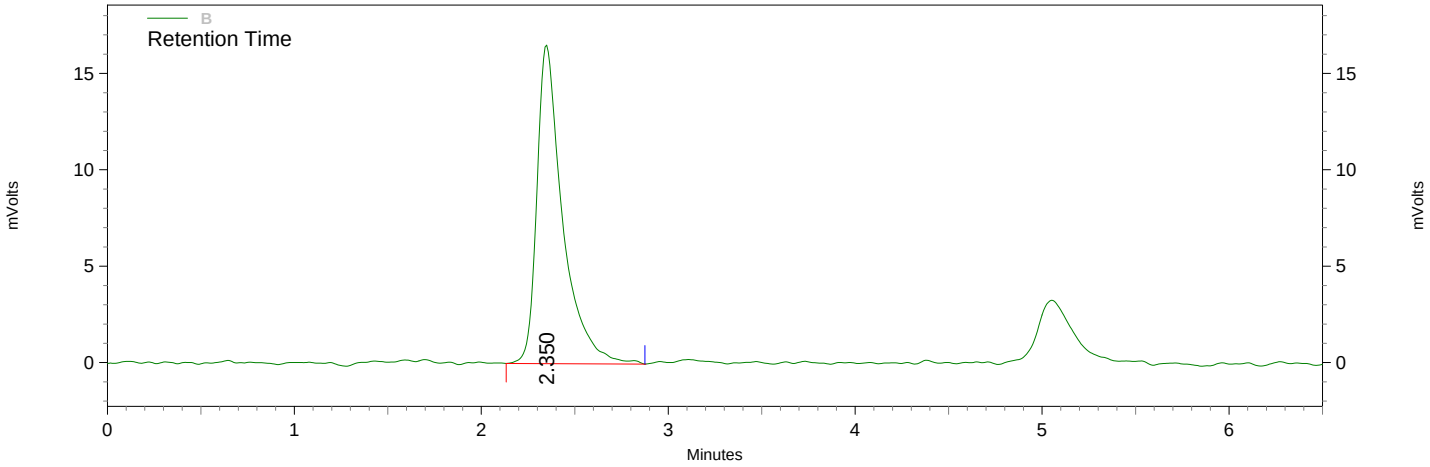
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.427	14.595	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\048.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ CCV EXP 5072
Acquired: Aug 28, 2013 16:12:01
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.058	55201	**112.975**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.350	158260	**0.427**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User : RED
Printed : Aug 29, 2013 09:52:35

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\060.dat	NQ CCV EXP 5072	Aug 29, 2013 09:52:35

A

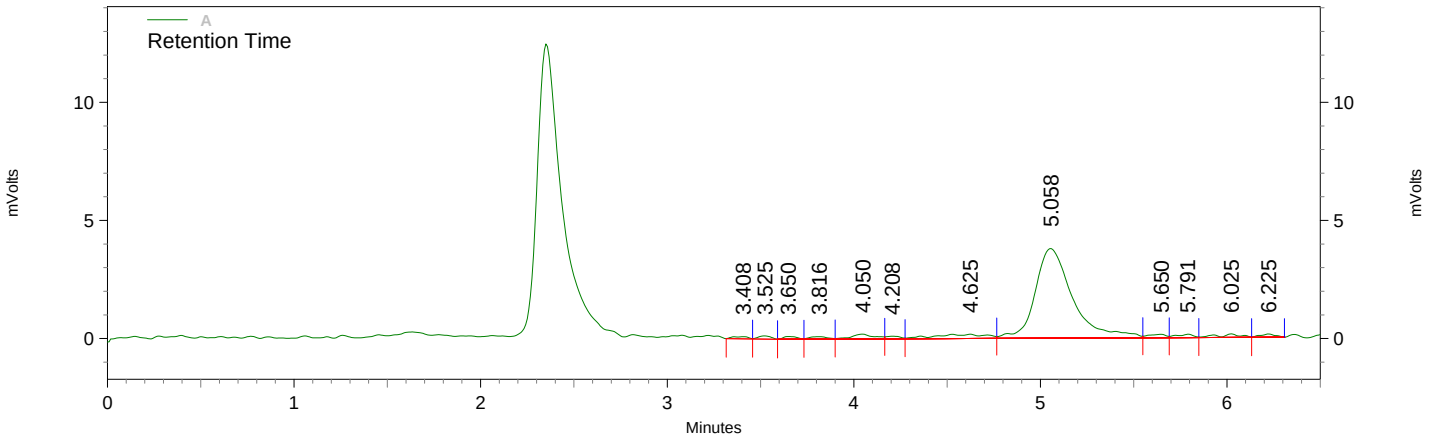
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	100.000	107.616	7.616	20.000	Passed

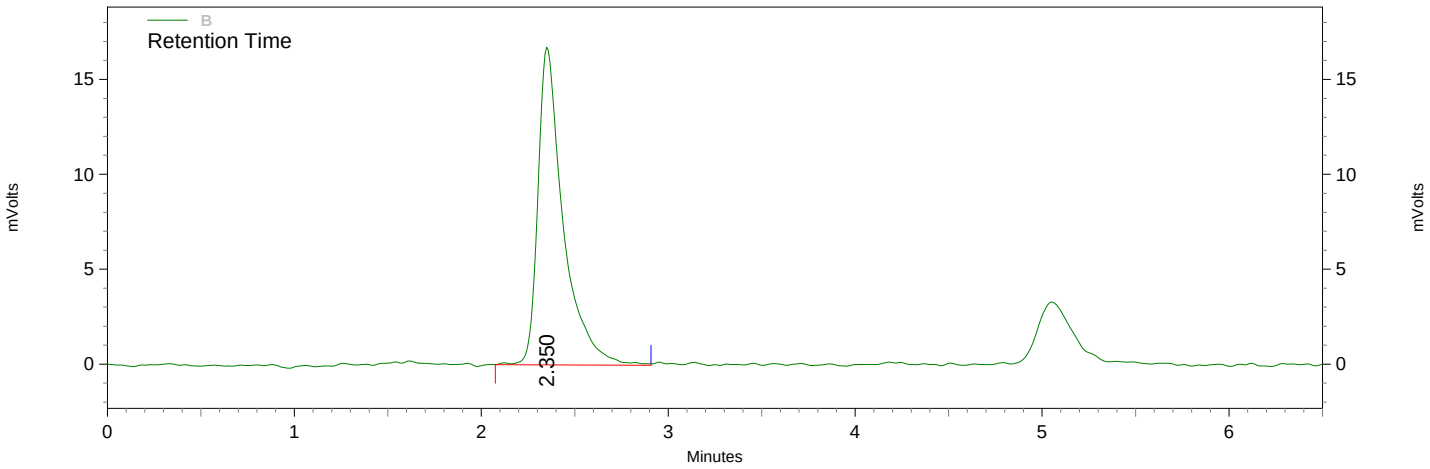
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.425	14.960	20.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\060.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ CCV EXP 5072
Acquired: Aug 28, 2013 17:50:16
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.058	52617	**107.616**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.350	157618	**0.425**

NITROAROMATICS ANALYSIS
QUALITY CONTROL
DOCUMENTS

QC Check Standard Report

09/06/2013

Sequence : C:\Instarch\HPLC 2\Sequences\8330A_B\082813exp-primary.seq
User : RED
Printed : Sep 05, 2013 10:12:45

File	Sample ID	Acquired
C:\Instarch\HPLC 2\Data\082813exp-primary\003.dat	8330 MRL check EXP 5069	Sep 05, 2013 10:12:45

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.100	0.119	18.638	30.000	Passed
RDX	0.100	0.098	1.979	30.000	Passed
12-DNB (SSTD)	20.000	16.238	18.808	30.000	Passed
135-TNB	0.100	0.100	0.488	30.000	Passed
13-DNB	0.100	0.094	5.559	30.000	Passed
TETRYL	0.100	0.080	19.966	30.000	Passed
35-DNA	0.100	0.105	4.995	30.000	Passed
NB	0.100	0.098	2.370	30.000	Passed
246-TNT	0.100	0.090	9.958	30.000	Passed
4-AM-26-DNT	0.100	0.084	15.789	30.000	Passed
2-AM-46-DNT	0.100	0.071	28.818	30.000	Passed
2-NT	0.100	0.101	1.479	30.000	Passed
4-NT	0.100	0.117	16.713	30.000	Passed
3-NT	0.100	0.101	1.042	30.000	Passed

B

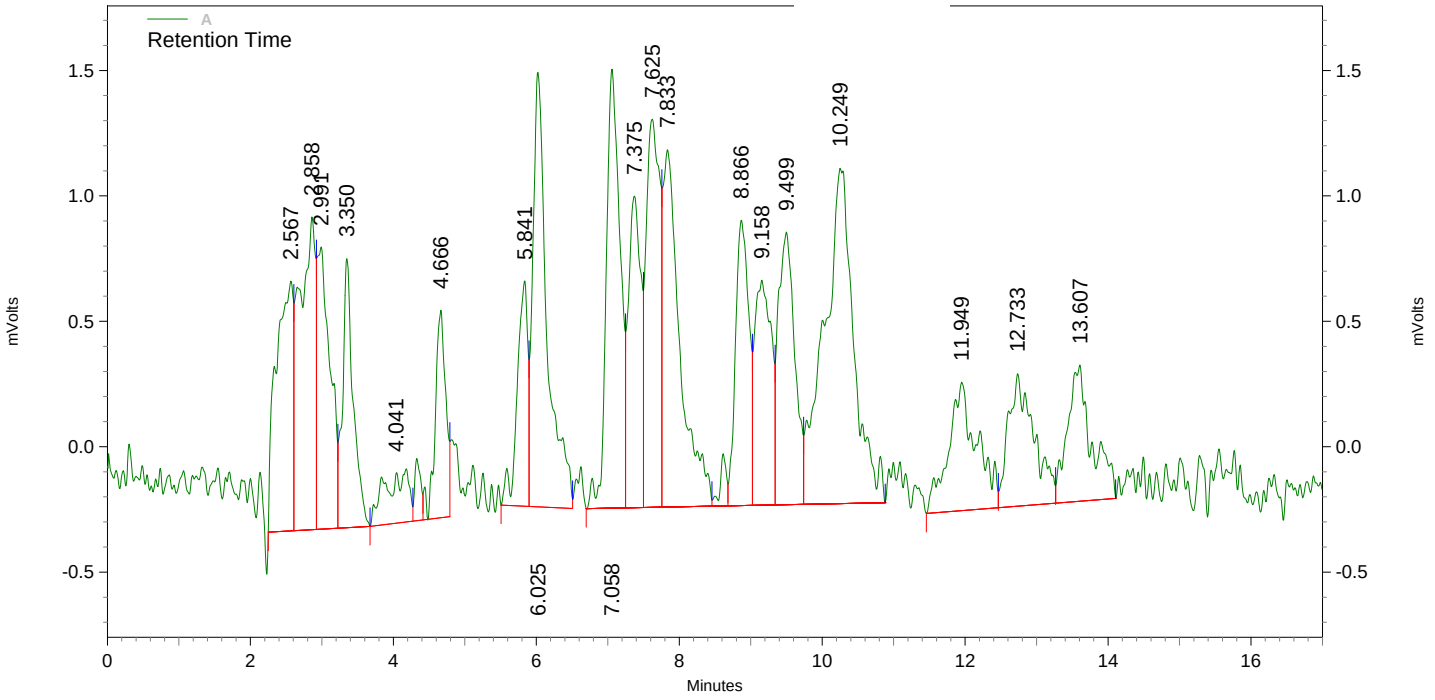
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	0.400	0.332	16.925	30.000	Passed
26-DNT	0.100	0.082	17.578	30.000	Passed
24-DNT	0.100	0.103	2.517	30.000	Passed
PETN	0.400	0.338	15.498	30.000	Passed

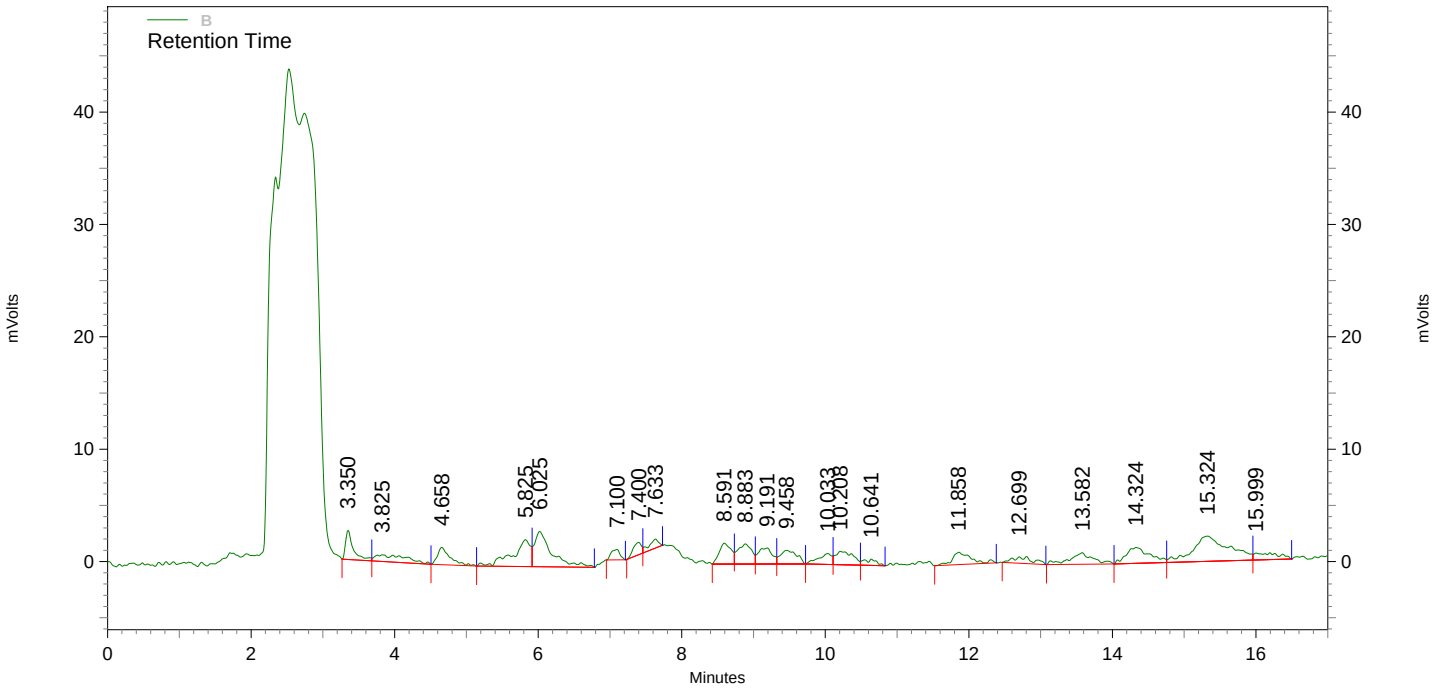
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\003.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 MRL check EXP 5069
Acquired: Aug 28, 2013 10:04:16
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013

JJY
08/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.350	11221	**0.119**
RDX	4.666	8564	**0.098**
12-DNB (SSTD)	5.841	9167	**16.238**
135-TNB	6.025	24412	**0.100**
13-DNB	7.058	23575	**0.094**
TETRYL	7.375	15109	**0.080**
35-DNA	7.625	20651	**0.105**
NB	7.833	24024	**0.098**
246-TNT	8.866	14752	**0.090**
4-AM-26-DNT	9.158	14494	**0.084**
2-AM-46-DNT	9.499	17563	**0.071**
2-NT	11.949	14175	**0.101**
4-NT	12.733	13143	**0.117**
3-NT	13.607	12863	**0.101**

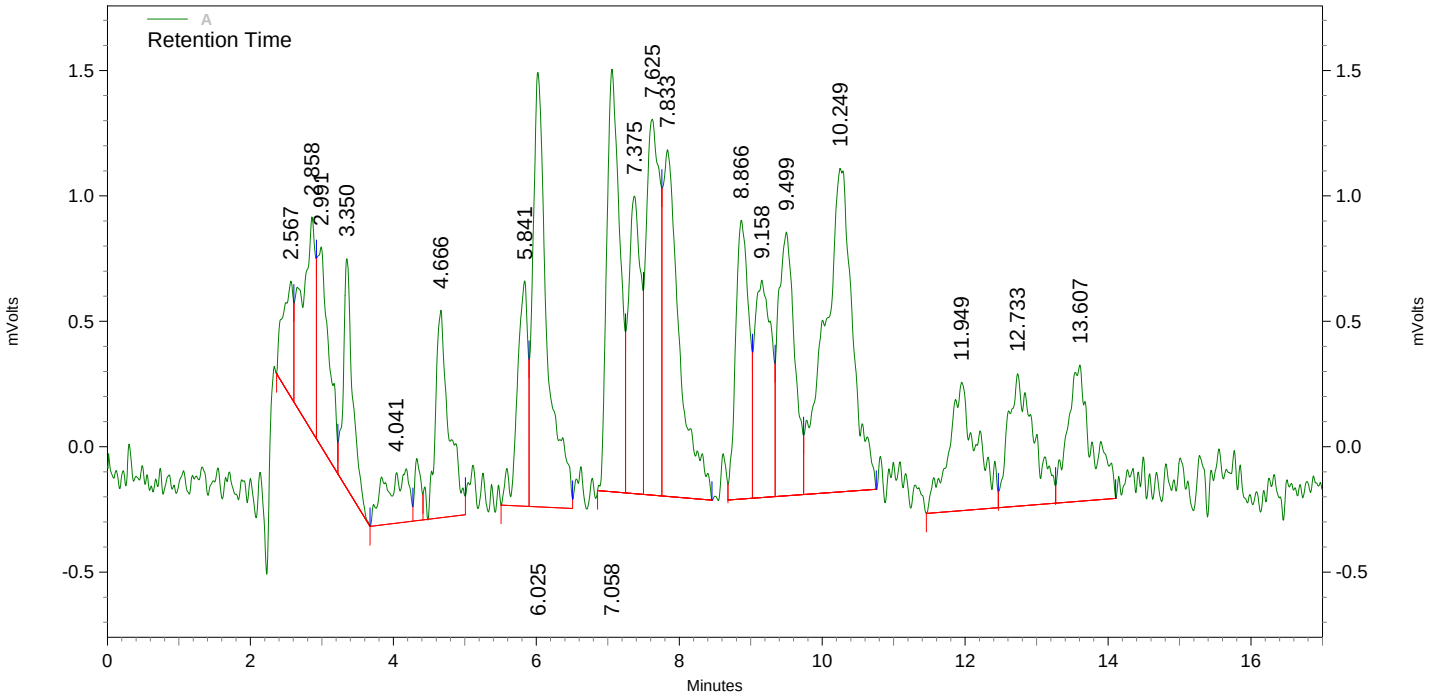
B Results

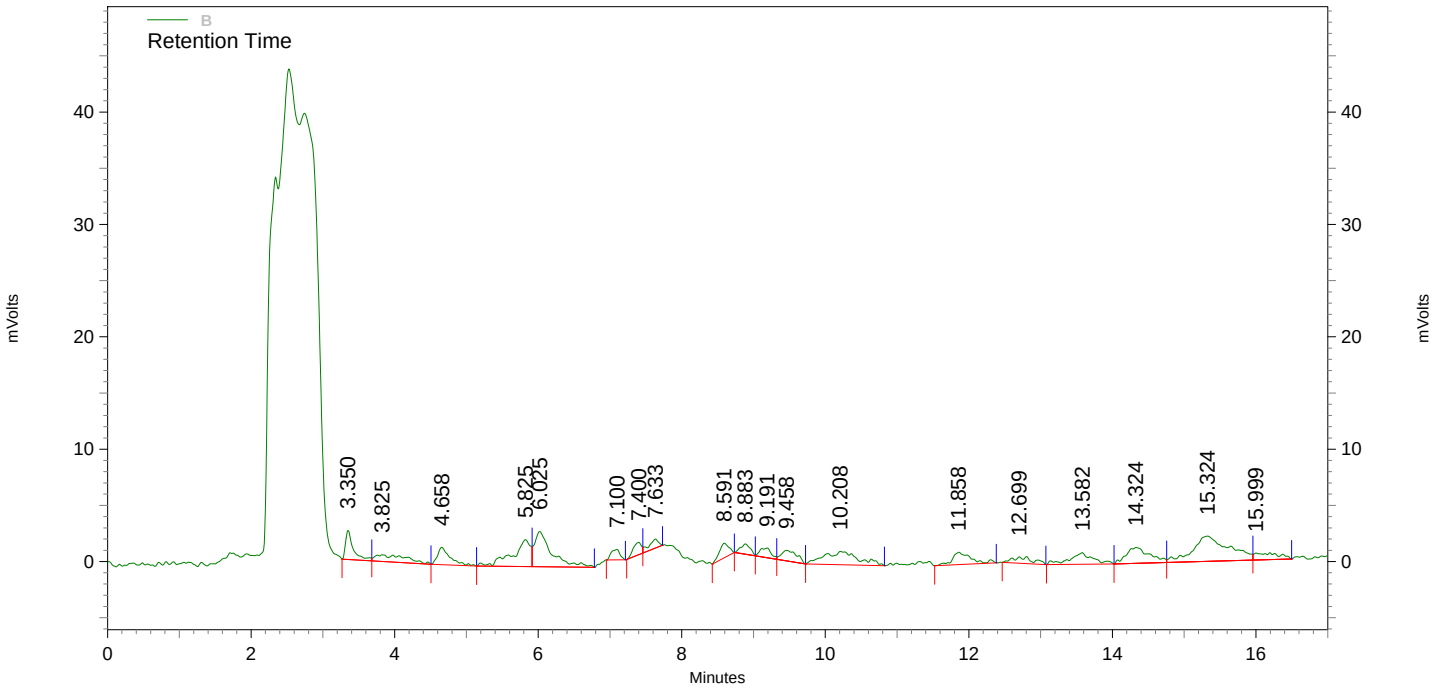
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.591	21515	**0.332**
26-DNT	10.033	12527	**0.082**
24-DNT	10.208	20194	**0.103**
PETN	14.324	32282	**0.338**

Explosives - 8330

Before Manual Integration

File: C:\Instarch\HPLC 2\Data\082813exp-primary\003.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 MRL check EXP 5069
Acquired: Aug 28, 2013 10:04:16
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.350	8295	**0.069**
RDX	4.666	11208	**0.133**
12-DNB (SSTD)	5.841	9167	**16.238**
135-TNB	6.025	24412	**0.100**
13-DNB	7.058	21494	**0.085**
TETRYL	7.375	14271	**0.073**
35-DNA	7.625	19901	**0.100**
NB	7.833	22586	**0.091**
246-TNT	8.866	14223	**0.086**
4-AM-26-DNT	9.158	13912	**0.080**
2-AM-46-DNT	9.499	16702	**0.066**
2-NT	11.949	14175	**0.101**
4-NT	12.733	13143	**0.117**
3-NT	13.607	12863	**0.101**

B Results

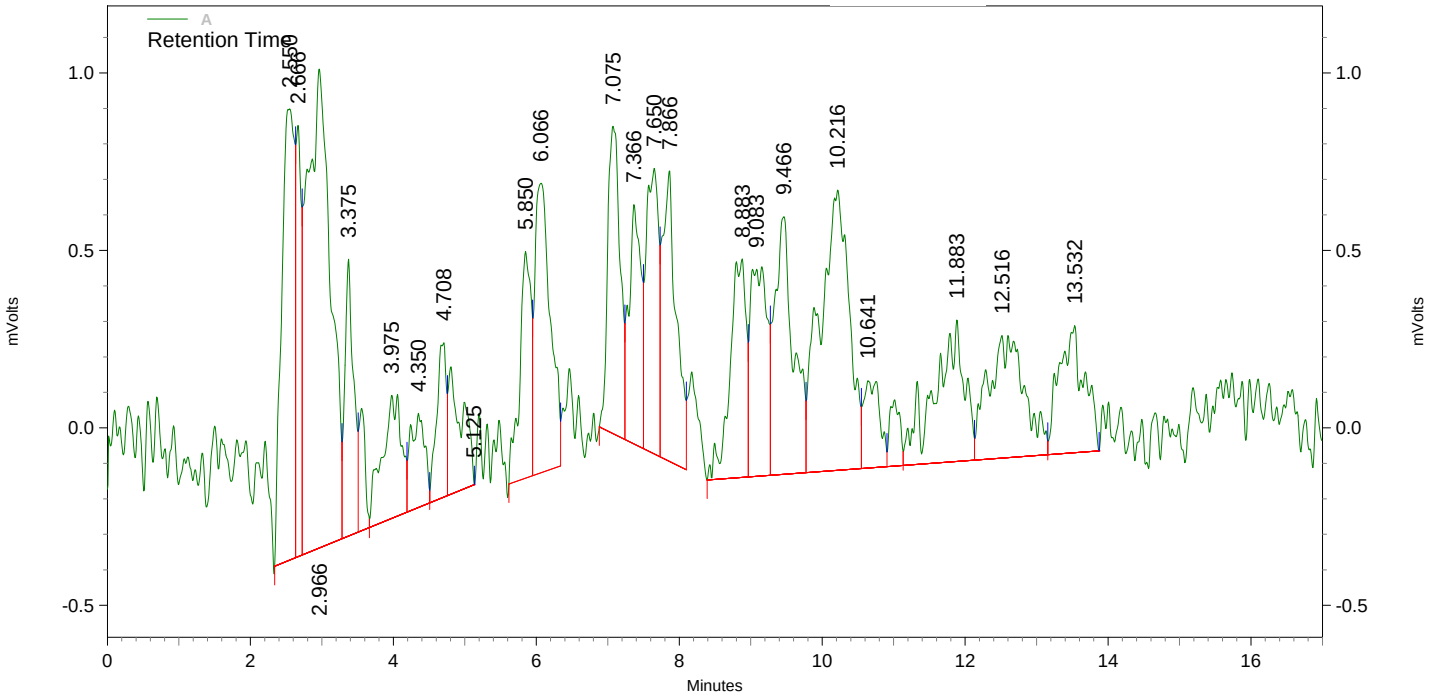
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.591	11908	**0.156**
26-DNT			**0.000 BDL**
24-DNT	10.208	39238	**0.193**
PETN	14.324	32282	**0.338**

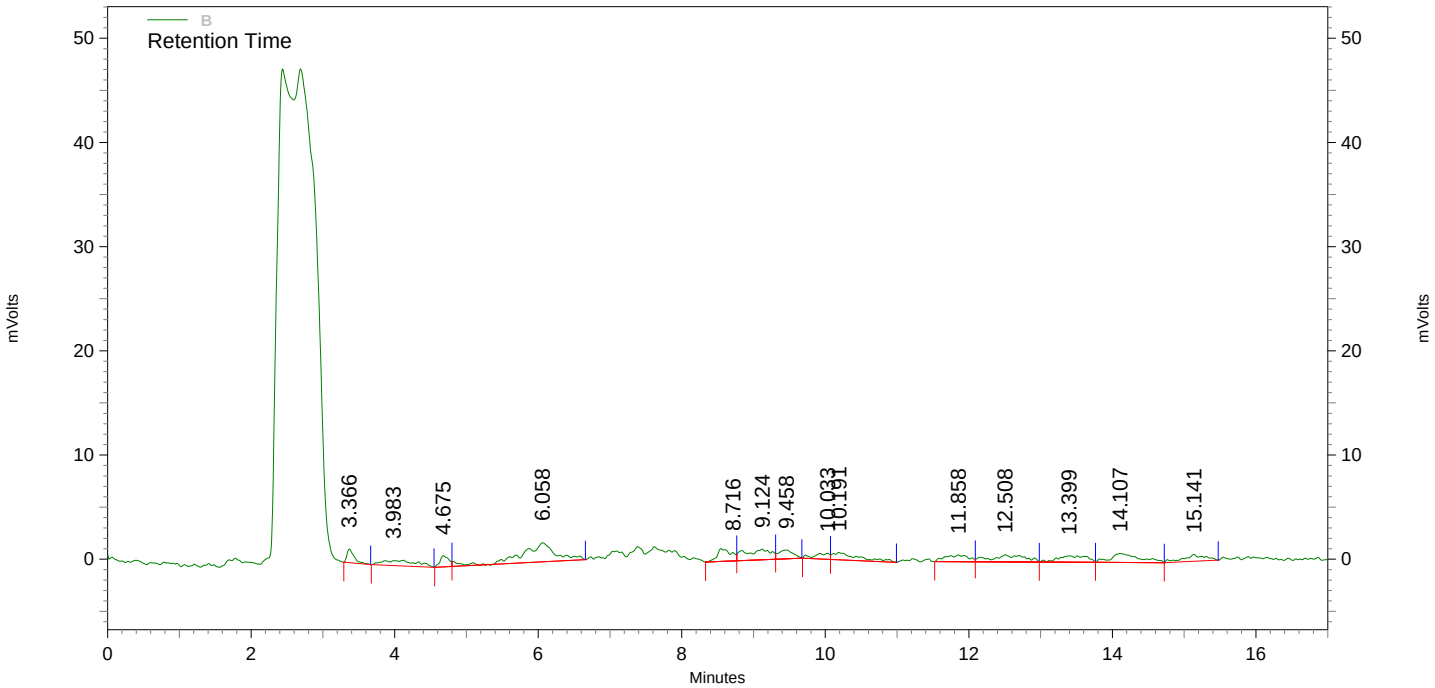
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\004.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 MDL check EXP 5070
Acquired: Aug 28, 2013 10:22:34
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013

JJY
08/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.375	6646	**0.041**
RDX	4.708	4101	**0.039**
12-DNB (SSTD)	5.850	7029	**10.664**
135-TNB	6.066	12358	**0.040**
13-DNB	7.075	10438	**0.032**
TETRYL	7.366	7860	**0.023**
35-DNA	7.650	9651	**0.034**
NB	7.866	11068	**0.040**
246-TNT	8.883	9651	**0.050**
4-AM-26-DNT	9.083	9641	**0.046**
2-AM-46-DNT	9.466	13374	**0.048**
2-NT	11.883	11441	**0.074**
4-NT	12.516	12164	**0.106**
3-NT	13.532	8826	**0.069**

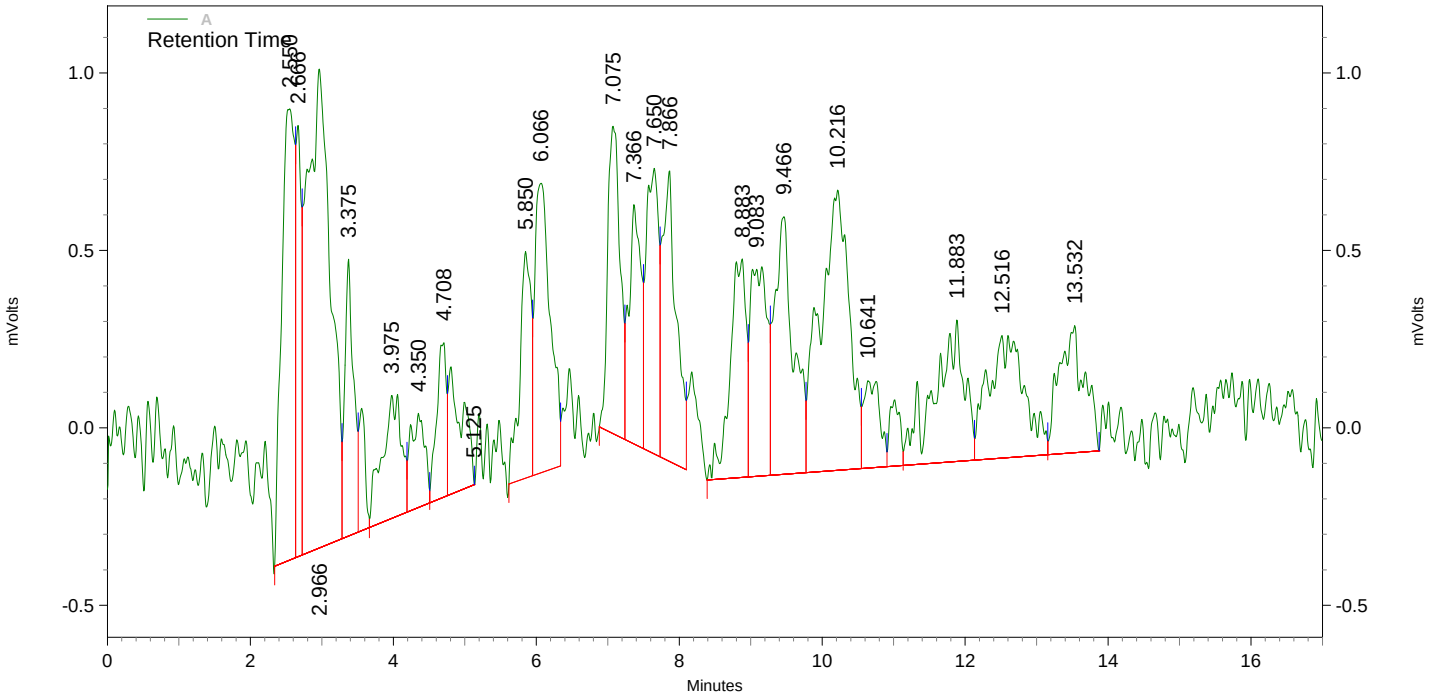
B Results

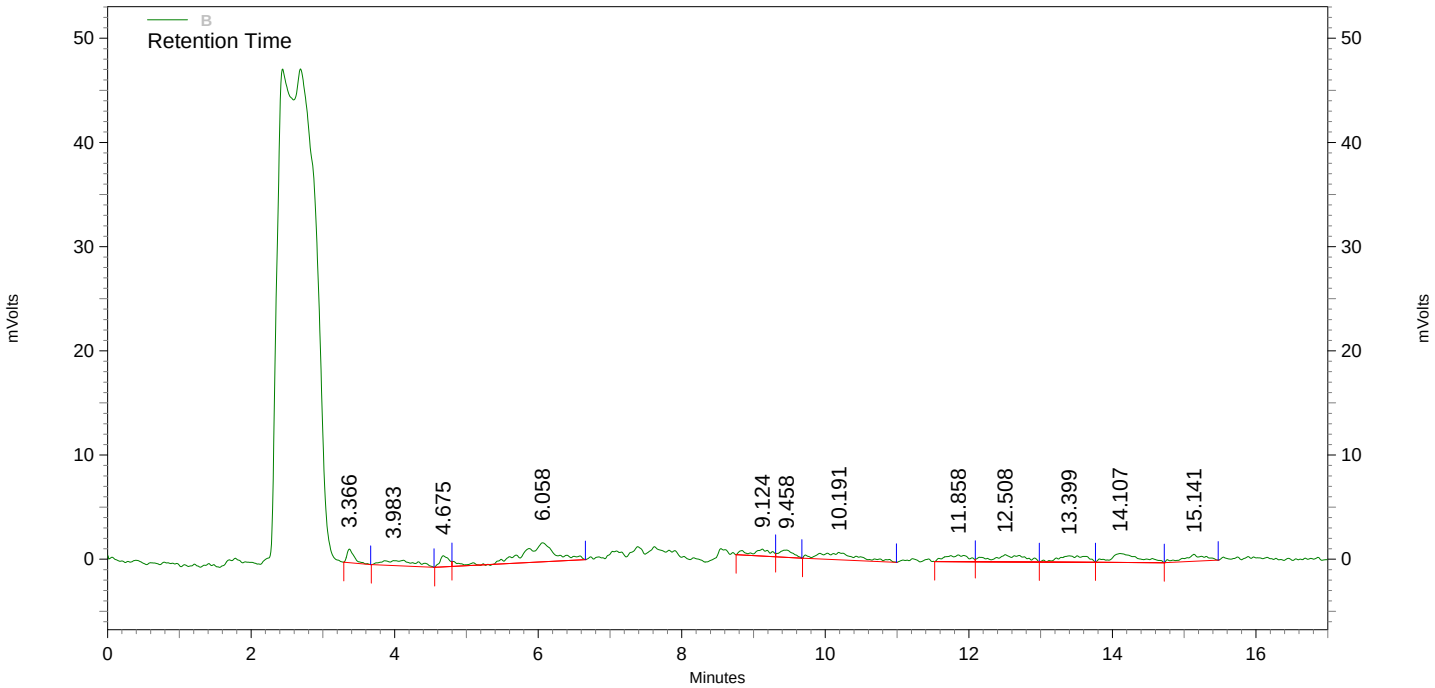
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.716	16217	**0.235**
26-DNT	10.033	8057	**0.051**
24-DNT	10.191	17332	**0.089**
PETN	14.107	24521	**0.238**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\004.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 MDL check EXP 5070
Acquired: Aug 28, 2013 10:22:34
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.375	6646	**0.041**
RDX	4.708	4101	**0.039**
12-DNB (SSTD)	5.850	7029	**10.664**
135-TNB	6.066	12358	**0.040**
13-DNB	7.075	10438	**0.032**
TETRYL	7.366	7860	**0.023**
35-DNA	7.650	9651	**0.034**
NB	7.866	11068	**0.040**
246-TNT	8.883	9651	**0.050**
4-AM-26-DNT	9.083	9641	**0.046**
2-AM-46-DNT	9.466	13374	**0.048**
2-NT	11.883	11441	**0.074**
4-NT	12.516	12164	**0.106**
3-NT	13.532	8826	**0.069**

B Results

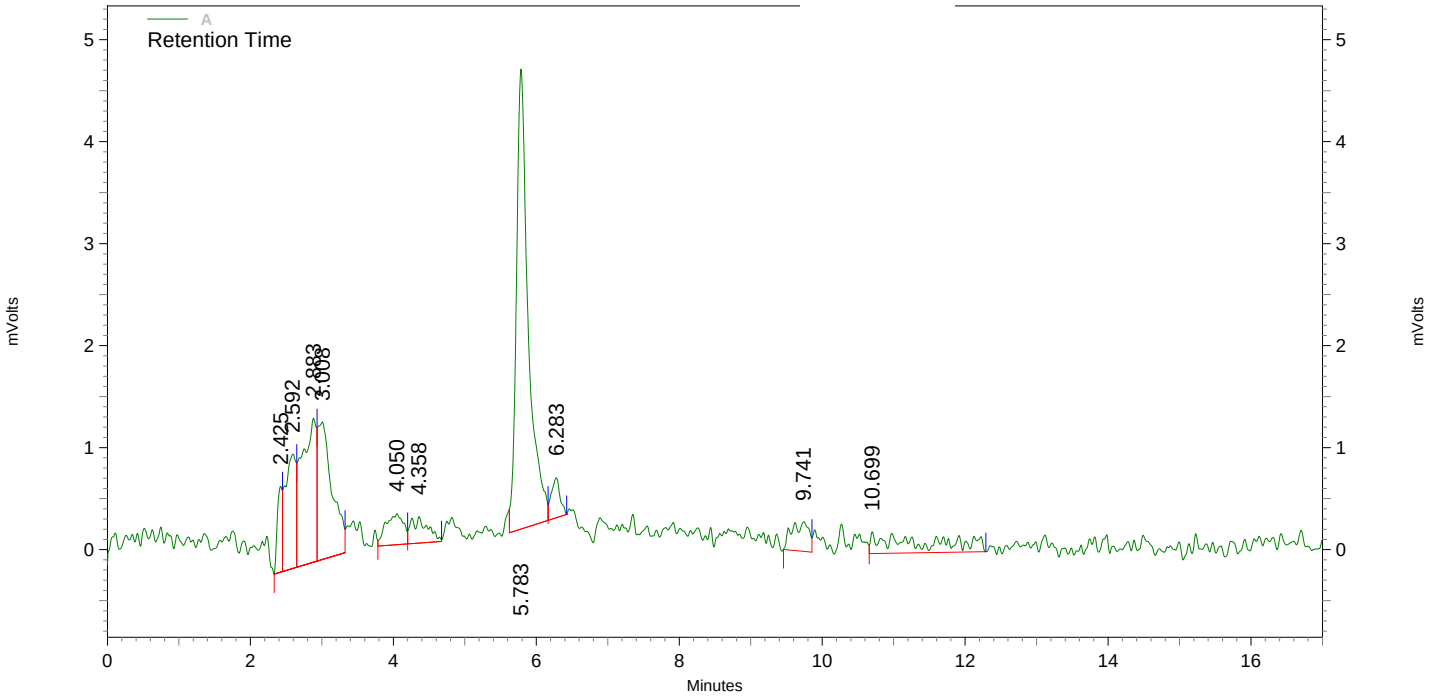
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT	10.191	25389	**0.127**
PETN	14.107	24521	**0.238**

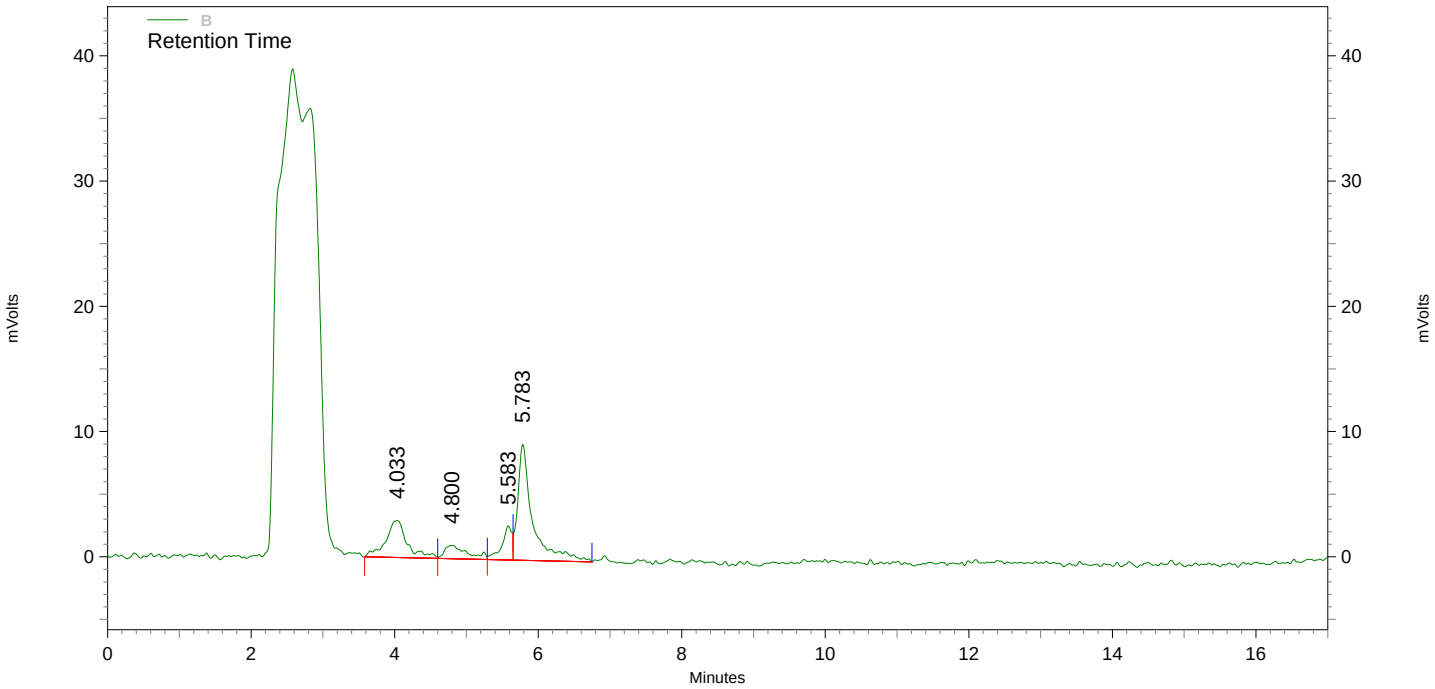
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\005.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 97103,MBW,
Acquired: Aug 28, 2013 10:40:52
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013

JJY
08/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.783	51947	**127.768**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT	9.741	4771	**0.000**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

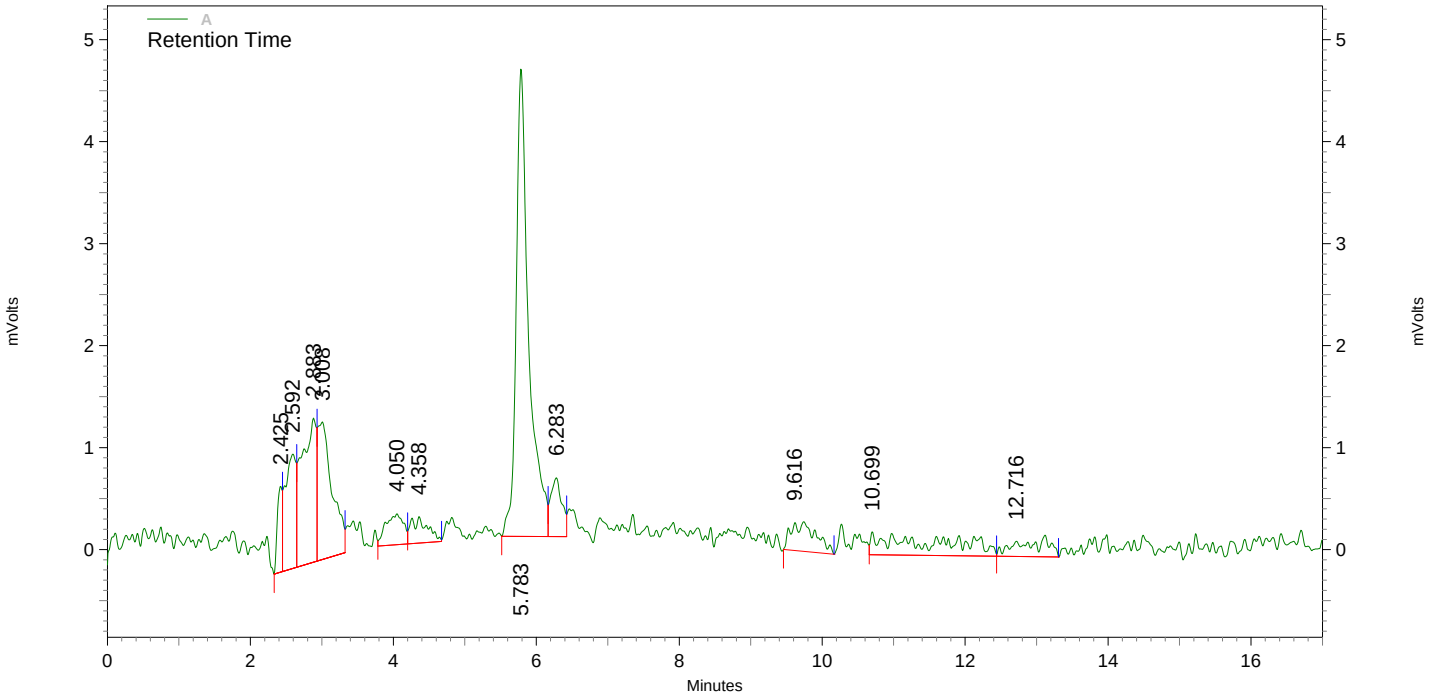
B Results

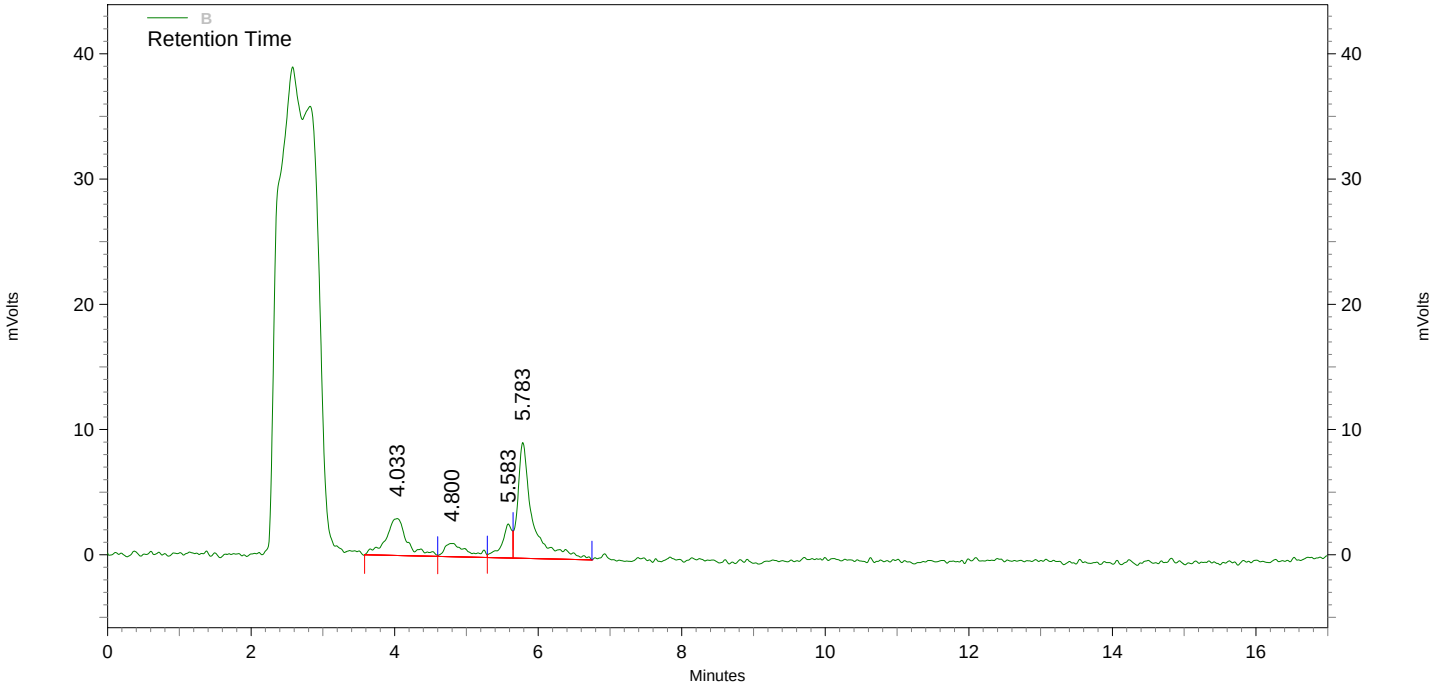
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\005.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 97103,MBW,
Acquired: Aug 28, 2013 10:40:52
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013





A Results

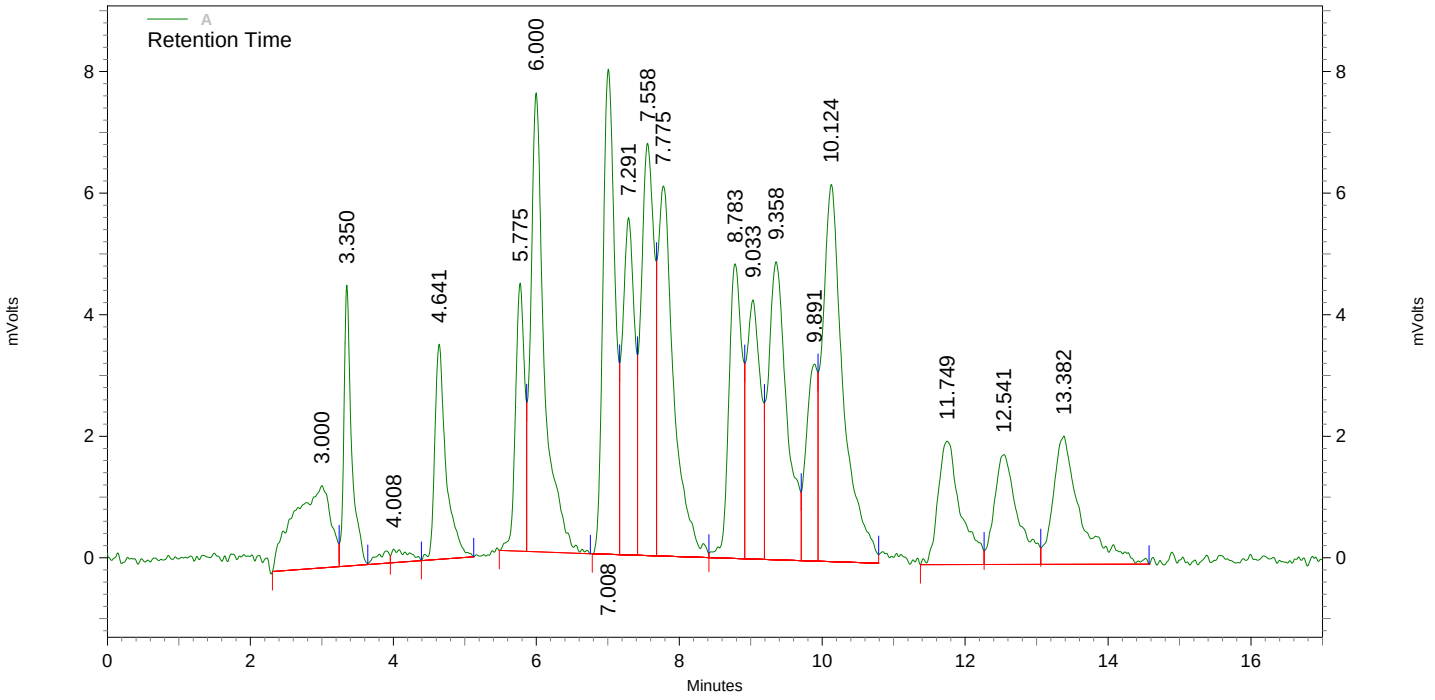
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.783	56004	**138.345**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT	9.616	6915	**0.011**
2-NT			**0.000 BDL**
4-NT	12.716	5453	**0.034**
3-NT			**0.000 BDL**

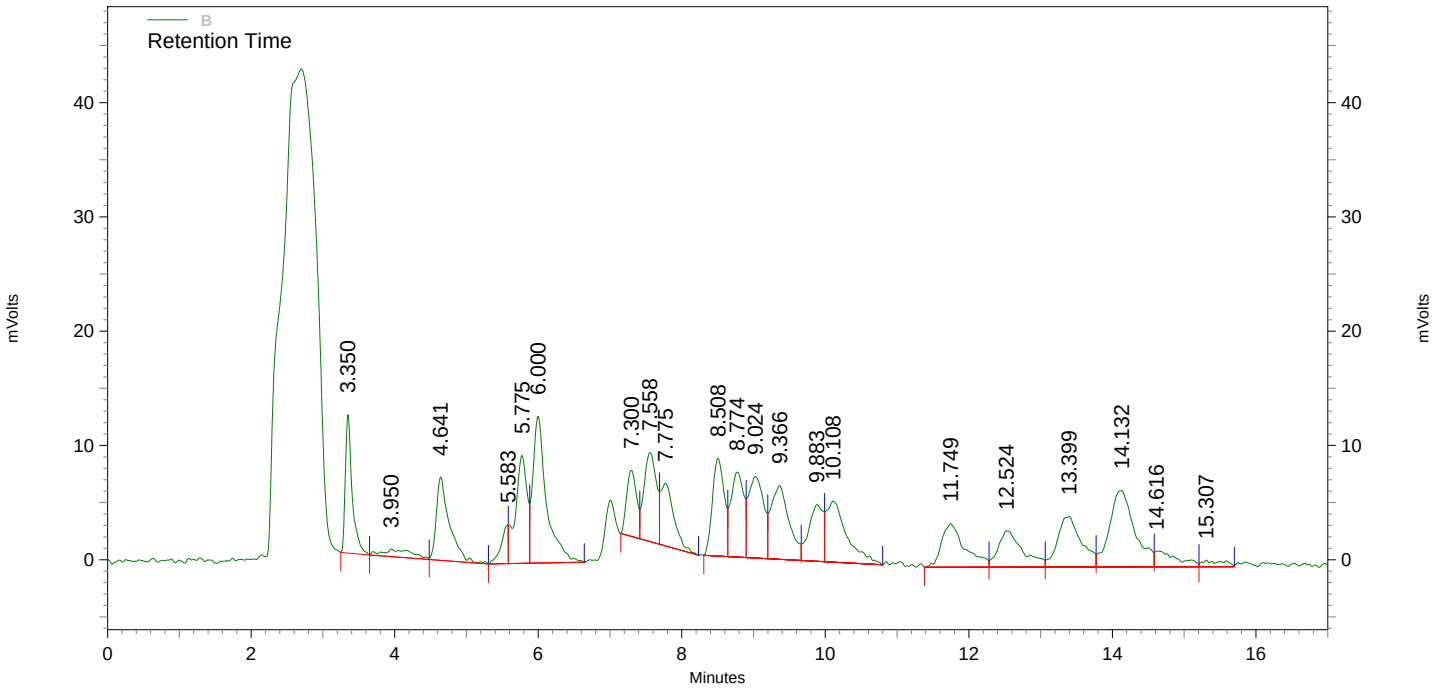
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\006.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 97103,LCSW,
Acquired: Aug 28, 2013 10:59:08
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.350	34565	**0.513**
RDX	4.641	38998	**0.498**
12-DNB (SSTD)	5.775	38726	**93.300**
135-TNB	6.000	100633	**0.484**
13-DNB	7.008	92066	**0.419**
TETRYL	7.291	65408	**0.476**
35-DNA	7.558	86251	**0.530**
NB	7.775	95116	**0.411**
246-TNT	8.783	61765	**0.461**
4-AM-26-DNT	9.033	57624	**0.428**
2-AM-46-DNT	9.358	89553	**0.475**
2-NT	11.749	44441	**0.408**
4-NT	12.541	41153	**0.419**
3-NT	13.382	56608	**0.453**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.508	97926	**1.732**
26-DNT	9.883	68886	**0.478**
24-DNT	10.108	106708	**0.515**
PETN	14.132	163327	**2.022**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 2\Sequences\8330A_B\082813exp-primary.seq
User : RED
Printed : Sep 05, 2013 10:13:05

File	Sample ID	Acquired
C:\Instarch\HPLC 2\Data\082813exp-primary\010.dat	8330 MRL check EXP 5069	Sep 05, 2013 10:13:04

A

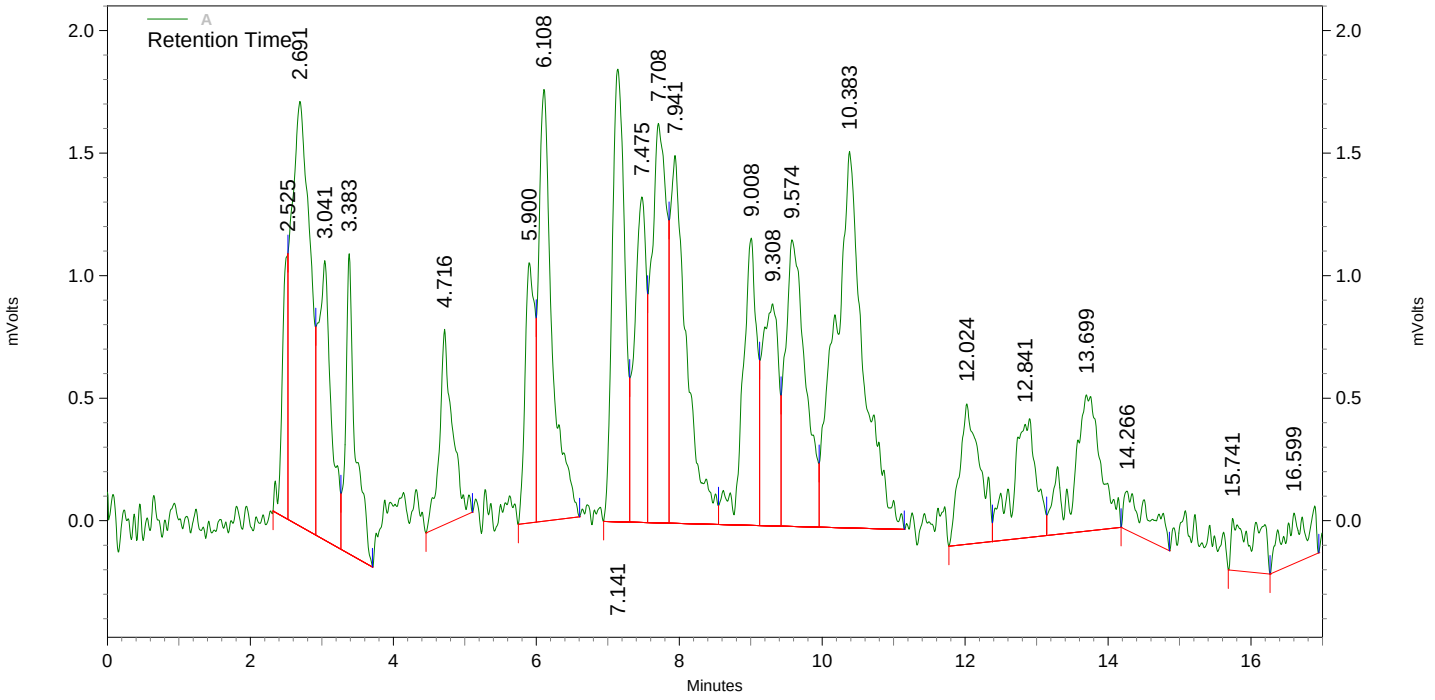
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.100	0.122	21.763	30.000	Passed
RDX	0.100	0.117	17.046	30.000	Passed
12-DNB (SSTD)	20.000	18.165	9.175	30.000	Passed
135-TNB	0.100	0.094	5.552	30.000	Passed
13-DNB	0.100	0.089	11.018	30.000	Passed
TETRYL	0.100	0.079	20.612	30.000	Passed
35-DNA	0.100	0.127	26.515	30.000	Passed
NB	0.100	0.099	1.156	30.000	Passed
246-TNT	0.100	0.101	0.979	30.000	Passed
4-AM-26-DNT	0.100	0.081	18.748	30.000	Passed
2-AM-46-DNT	0.100	0.101	0.972	30.000	Passed
2-NT	0.100	0.072	28.205	30.000	Passed
4-NT	0.100	0.097	2.949	30.000	Passed
3-NT	0.100	0.120	19.705	30.000	Passed

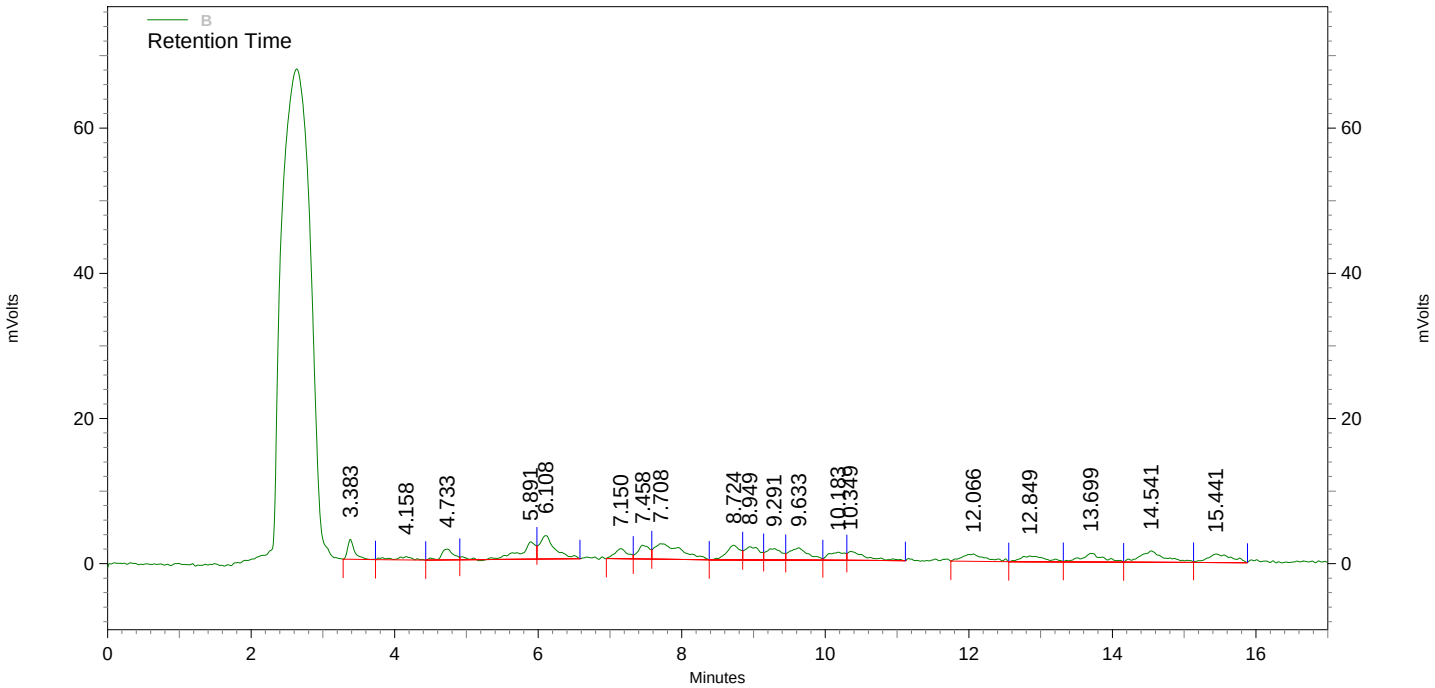
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	0.400	0.413	3.172	30.000	Passed
26-DNT	0.100	0.117	17.200	30.000	Passed
24-DNT	0.100	0.108	8.348	30.000	Passed
PETN	0.400	0.408	1.880	30.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\010.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 MRL check EXP 5069
Acquired: Aug 28, 2013 12:13:06
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.383	11406	**0.122**
RDX	4.716	10011	**0.117**
12-DNB (SSTD)	5.900	9906	**18.165**
135-TNB	6.108	23213	**0.094**
13-DNB	7.141	22422	**0.089**
TETRYL	7.475	15027	**0.079**
35-DNA	7.708	23971	**0.127**
NB	7.941	24299	**0.099**
246-TNT	9.008	16139	**0.101**
4-AM-26-DNT	9.308	14123	**0.081**
2-AM-46-DNT	9.574	22871	**0.101**
2-NT	12.024	11240	**0.072**
4-NT	12.841	11324	**0.097**
3-NT	13.699	15183	**0.120**

B Results

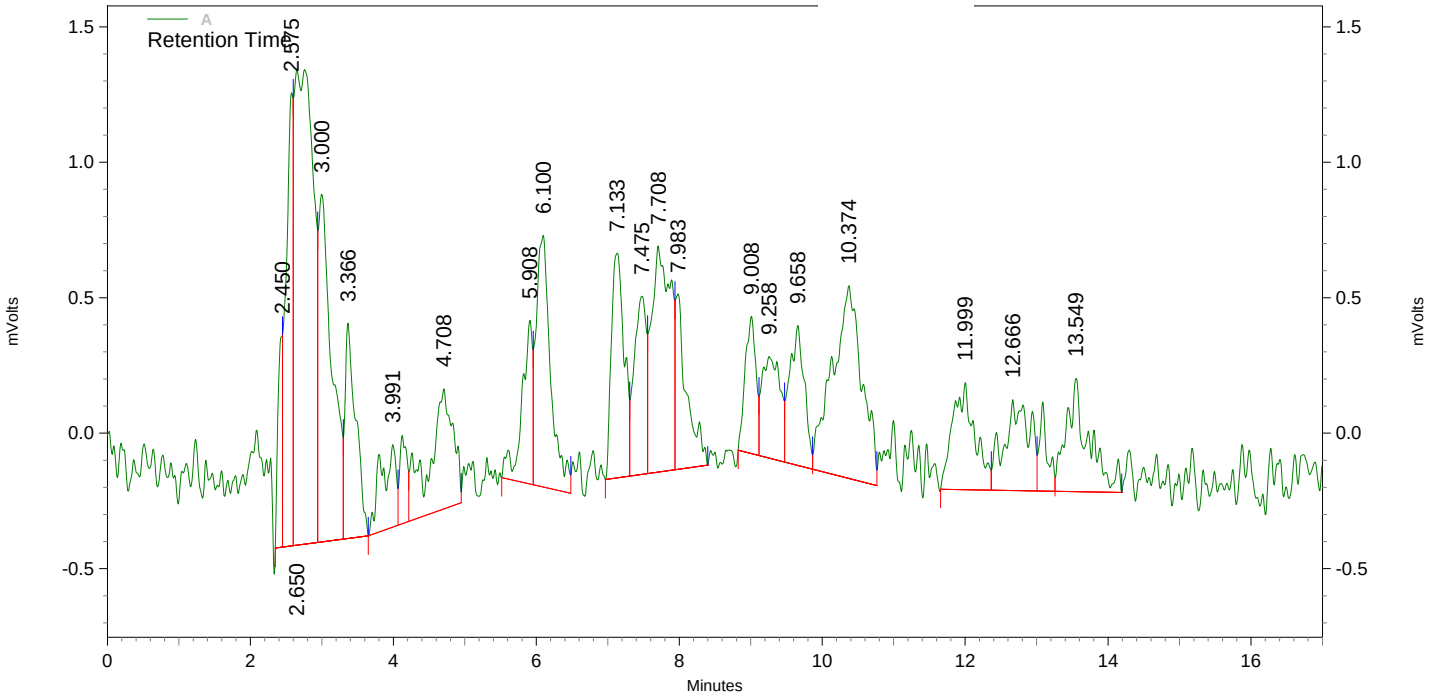
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.724	25903	**0.413**
26-DNT	10.183	17477	**0.117**
24-DNT	10.349	21417	**0.108**
PETN	14.541	37692	**0.408**

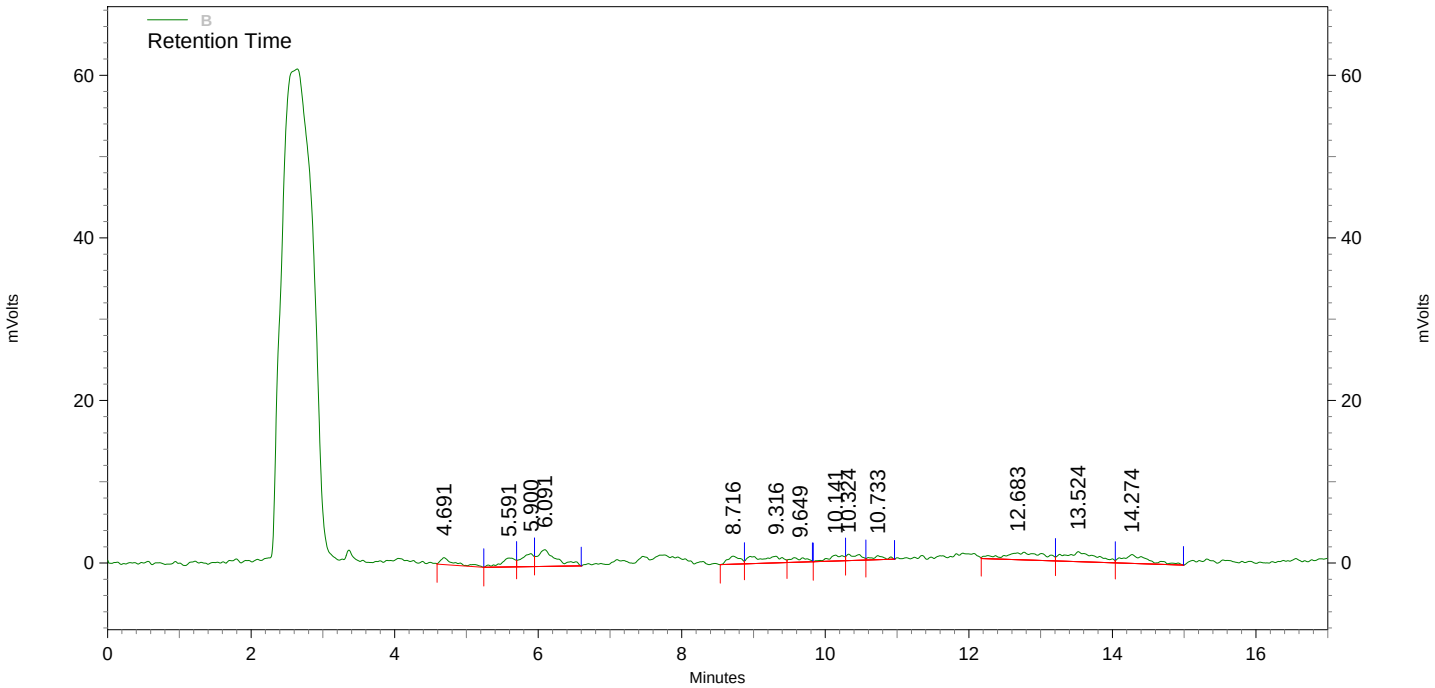
After Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\011.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 MDL check EXP 5070
Acquired: Aug 28, 2013 12:31:23
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013

JJY
08/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.366	8404	**0.071**
RDX	4.708	10429	**0.123**
12-DNB (SSTD)	5.908	6159	**8.396**
135-TNB	6.100	13132	**0.044**
13-DNB	7.133	10295	**0.032**
TETRYL	7.475	7771	**0.022**
35-DNA	7.708	15682	**0.073**
NB	7.983	7036	**0.023**
246-TNT	9.008	5280	**0.015**
4-AM-26-DNT	9.258	6700	**0.022**
2-AM-46-DNT	9.658	7413	**0.014**
2-NT	11.999	8525	**0.044**
4-NT	12.666	8245	**0.064**
3-NT	13.549	9073	**0.071**

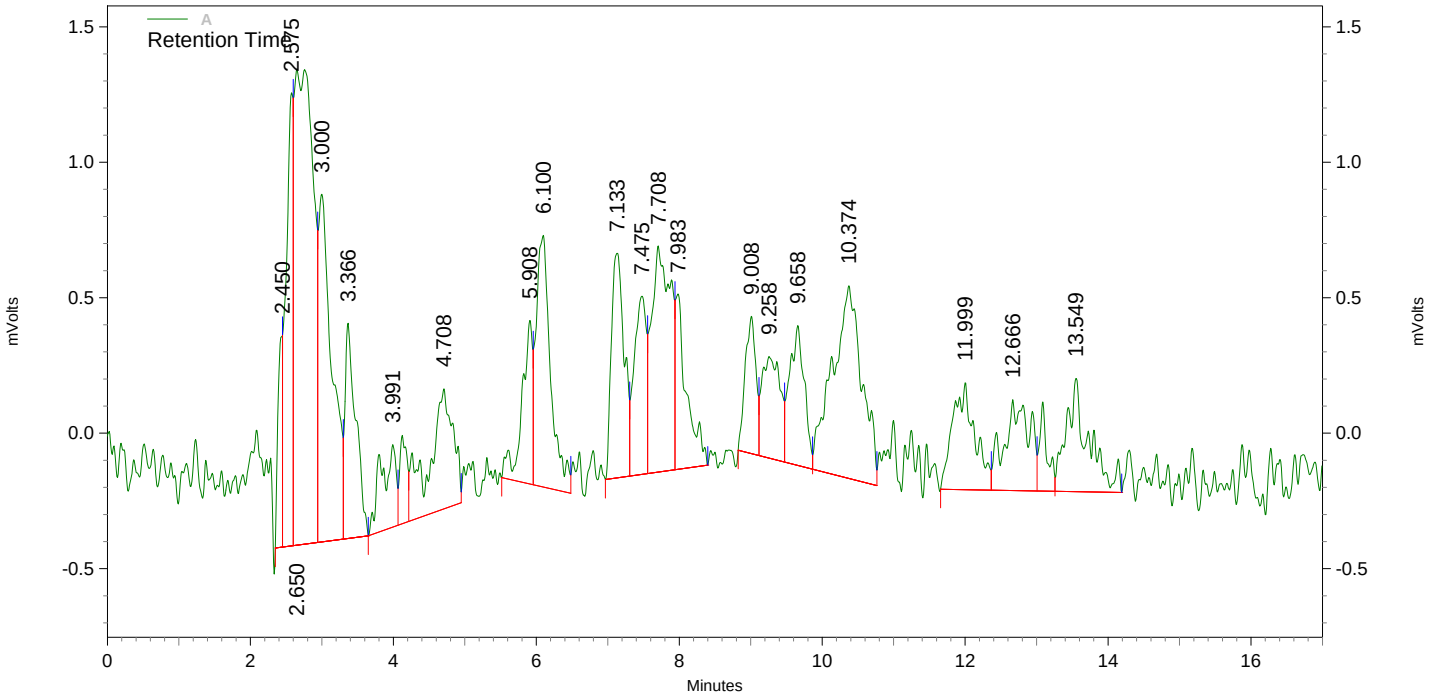
B Results

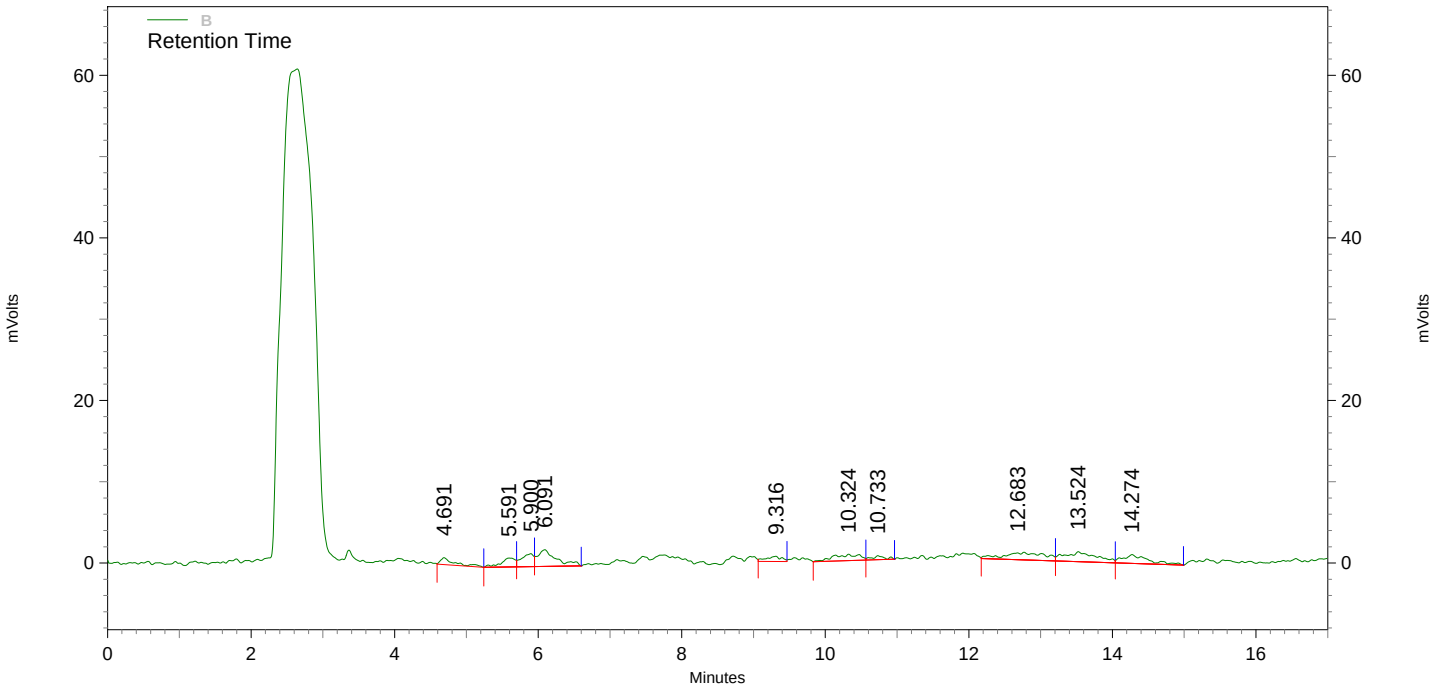
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.716	11782	**0.154**
26-DNT	10.141	9684	**0.062**
24-DNT	10.324	9189	**0.050**
PETN	14.274	26444	**0.263**

Before Manual Integration

Explosives - 8330

File: C:\Instarch\HPLC 2\Data\082813exp-primary\011.dat
User ID: RED
Method: C:\Instarch\HPLC 2\Methods\8330A_B\primary\042513expic-primary\082813exp-primary.met
Sample ID: 8330 MDL check EXP 5070
Acquired: Aug 28, 2013 12:31:23
Data Summary: Reason #3, #4 applies to data. RED 8/28/2013





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	3.366	8404	**0.071**
RDX	4.708	10429	**0.123**
12-DNB (SSTD)	5.908	6159	**8.396**
135-TNB	6.100	13132	**0.044**
13-DNB	7.133	10295	**0.032**
TETRYL	7.475	7771	**0.022**
35-DNA	7.708	15682	**0.073**
NB	7.983	7036	**0.023**
246-TNT	9.008	5280	**0.015**
4-AM-26-DNT	9.258	6700	**0.022**
2-AM-46-DNT	9.658	7413	**0.014**
2-NT	11.999	8525	**0.044**
4-NT	12.666	8245	**0.064**
3-NT	13.549	9073	**0.071**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT	10.324	18873	**0.096**
PETN	14.274	26444	**0.263**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User : RED
Printed : Aug 29, 2013 09:50:13

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\003.dat	NQ MRL check EXP 5074	Aug 29, 2013 09:50:13

A

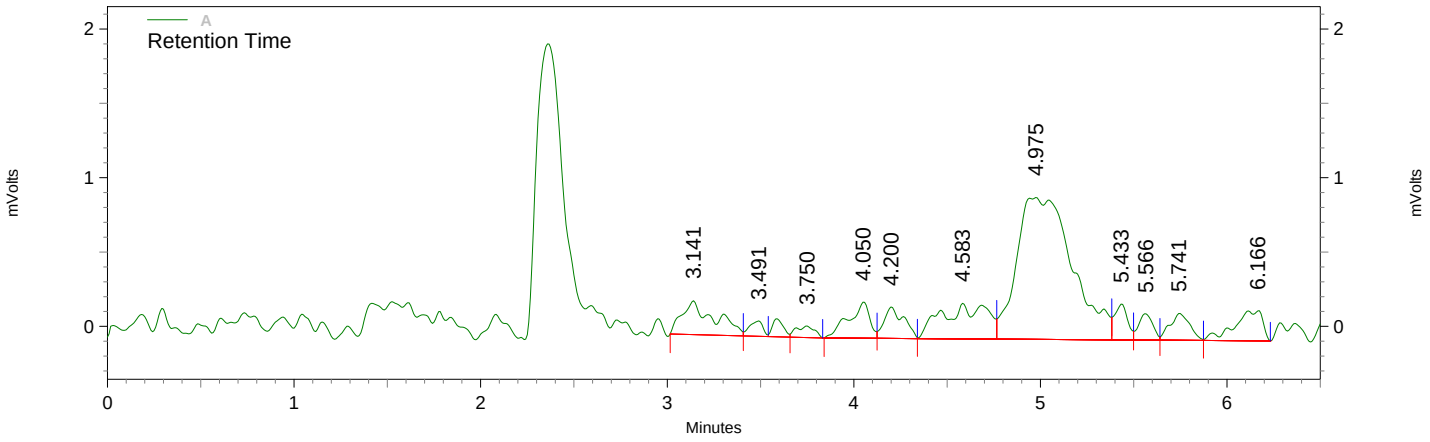
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	32.000	39.575	23.673	30.000	Passed

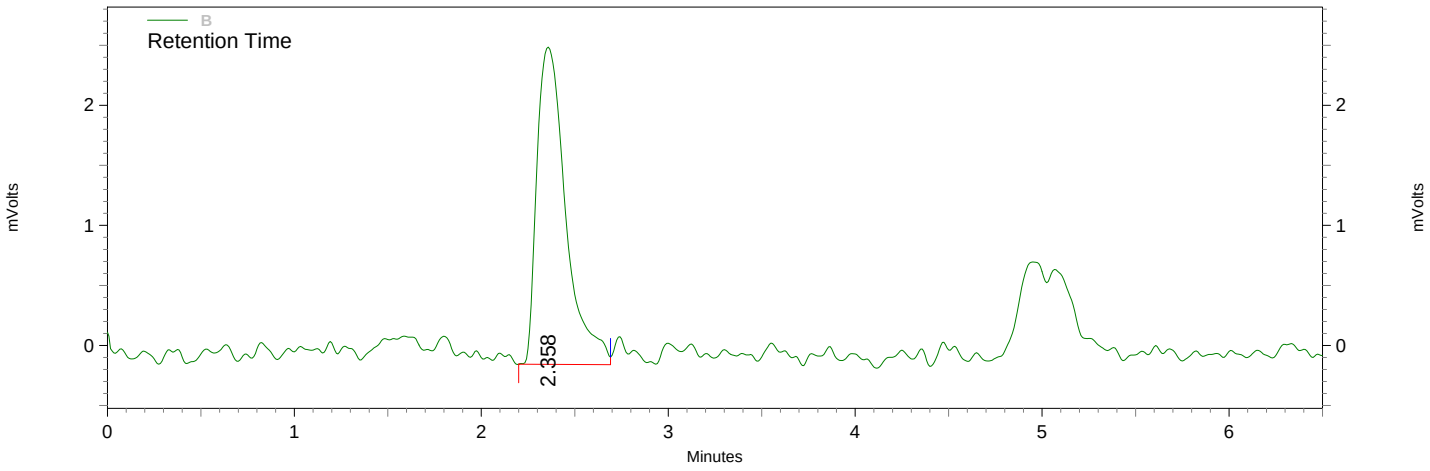
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.080	0.058	26.988	30.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\003.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ MRL check EXP 5074
Acquired: Aug 28, 2013 10:03:22
Data Summary: {Data Description}





A Results

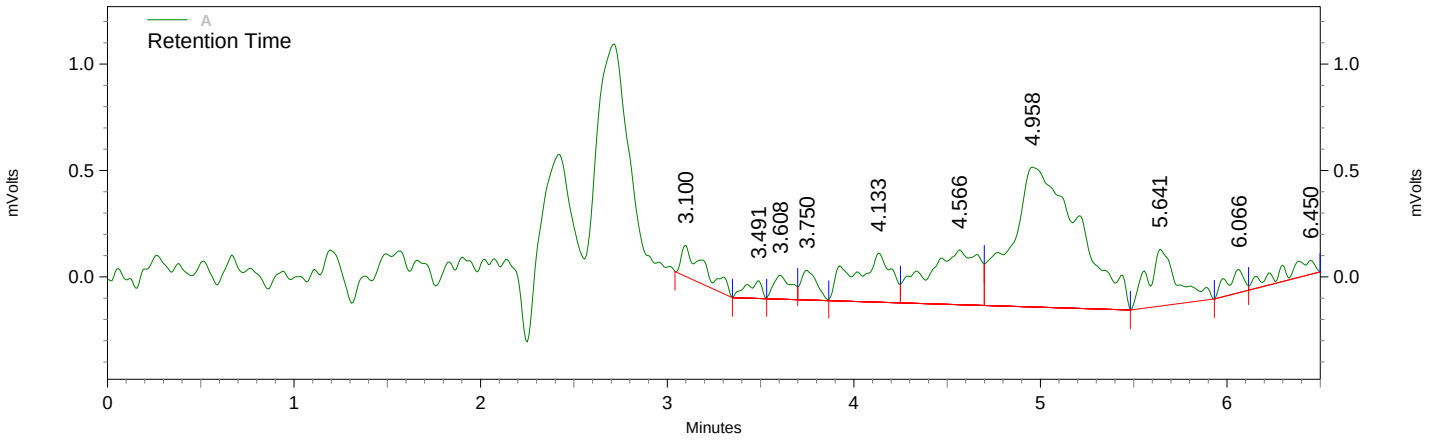
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.975	19813	**39.575**

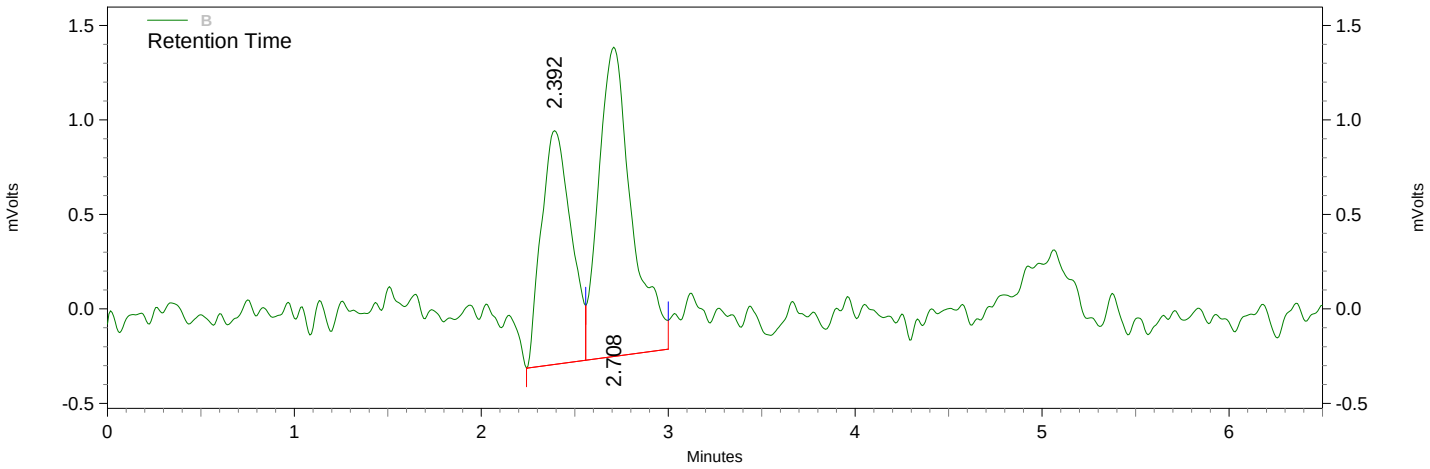
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.358	28361	**0.058**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\004.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ MDL check EXP 5073
Acquired: Aug 28, 2013 10:11:33
Data Summary: {Data Description}





A Results

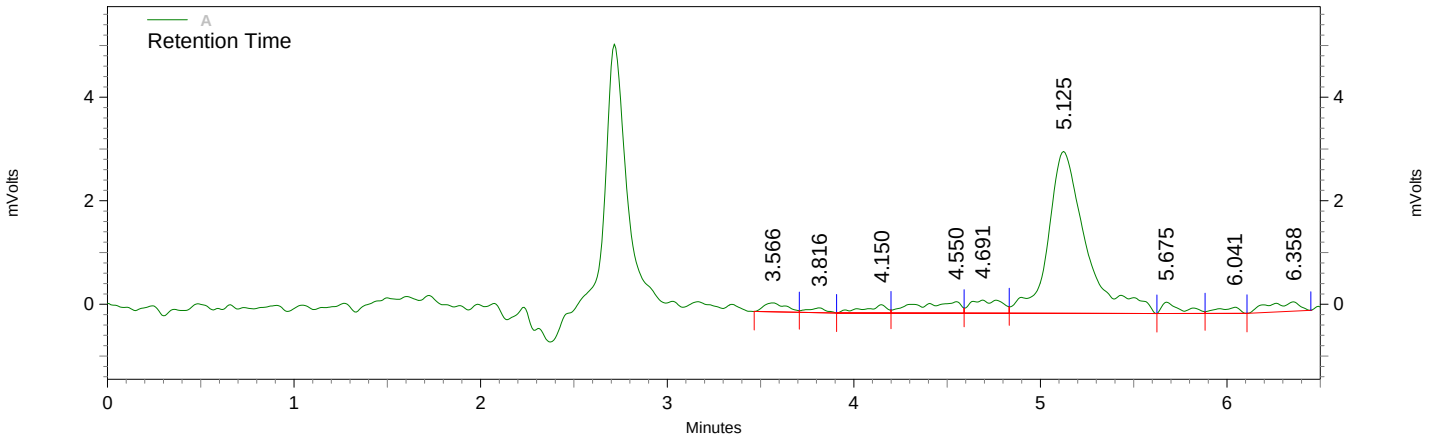
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	4.958	16571	**32.851**

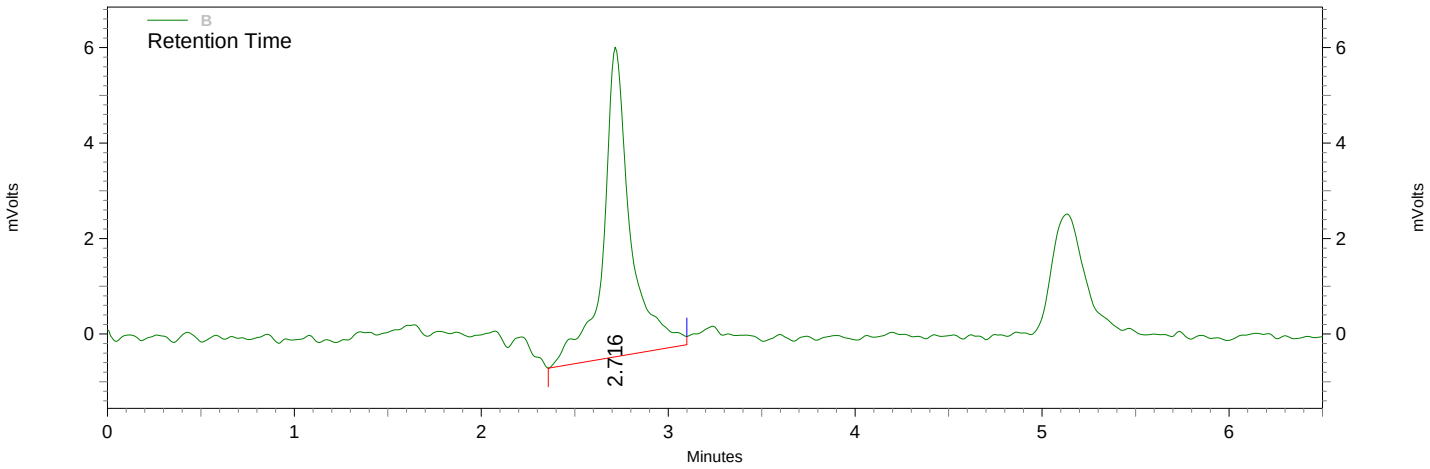
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.392	13619	**0.017**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\041.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: 97104,MBW,
Acquired: Aug 28, 2013 15:14:43
Data Summary: {Data Description}





A Results

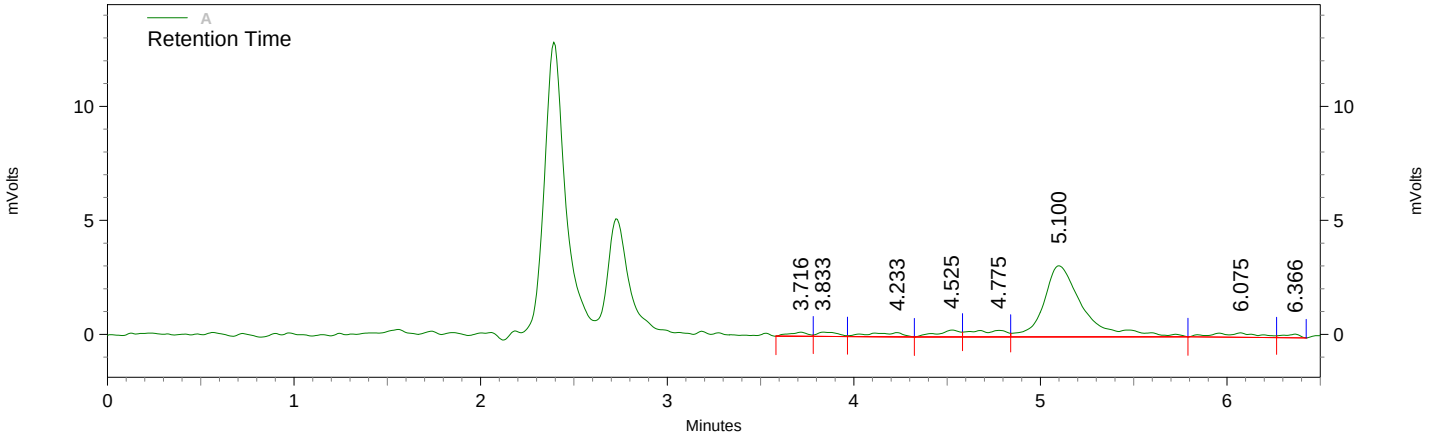
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.125	43650	**89.017**

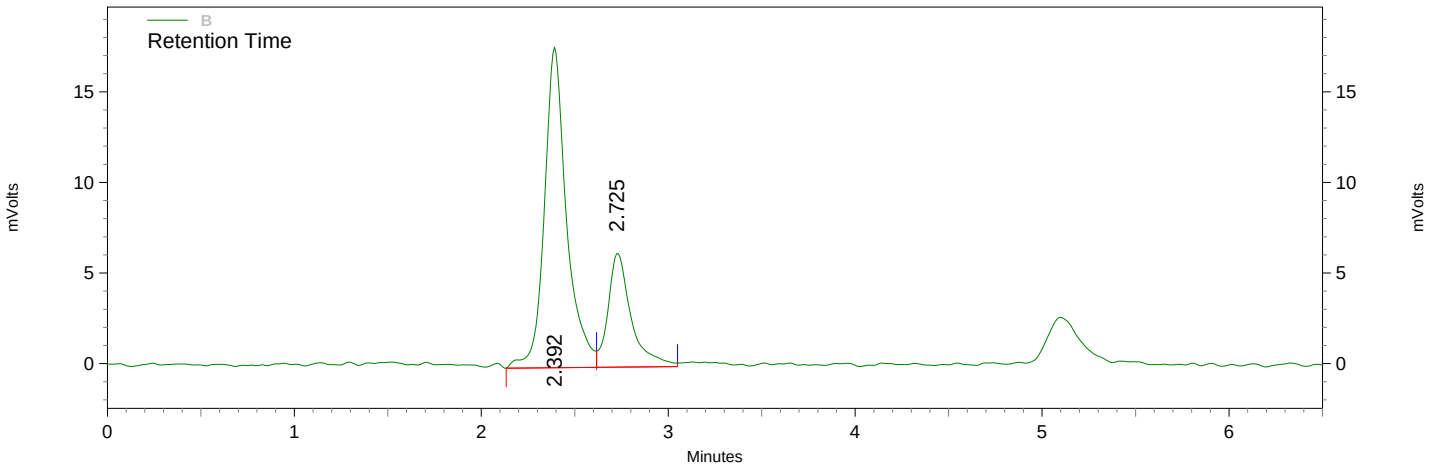
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\042.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: 97104,LCSW,
Acquired: Aug 28, 2013 15:22:55
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.100	45140	**92.107**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.392	146308	**0.393**

QC Check Standard Report

Sequence : C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User : RED
Printed : Aug 29, 2013 09:52:28

File	Sample ID	Acquired
C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\058.dat	NQ MRL check EXP 5074	Aug 29, 2013 09:52:28

A

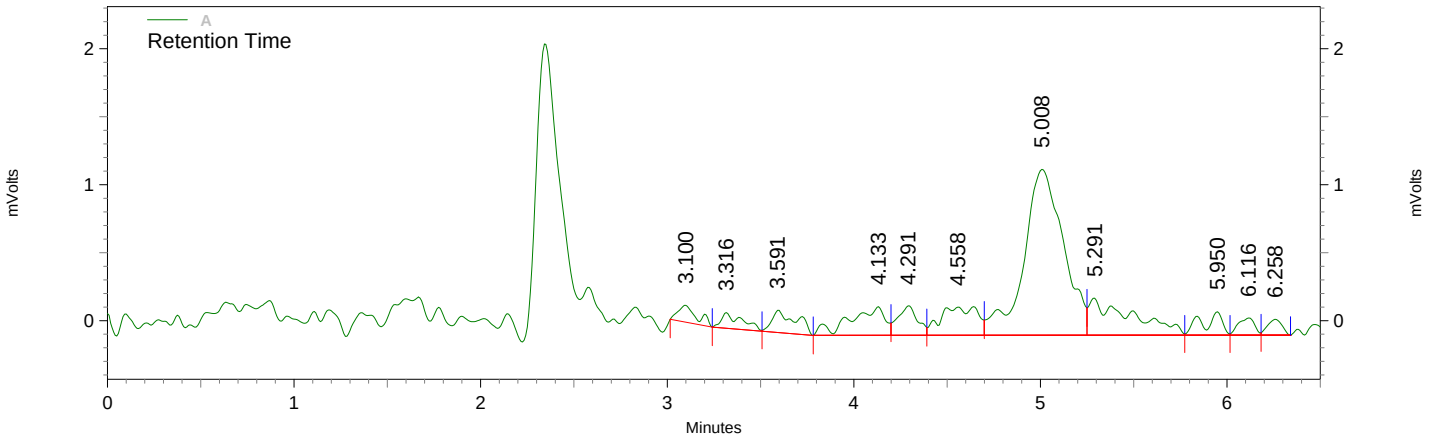
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
12-DNB (SSTD)	32.000	35.887	12.148	30.000	Passed

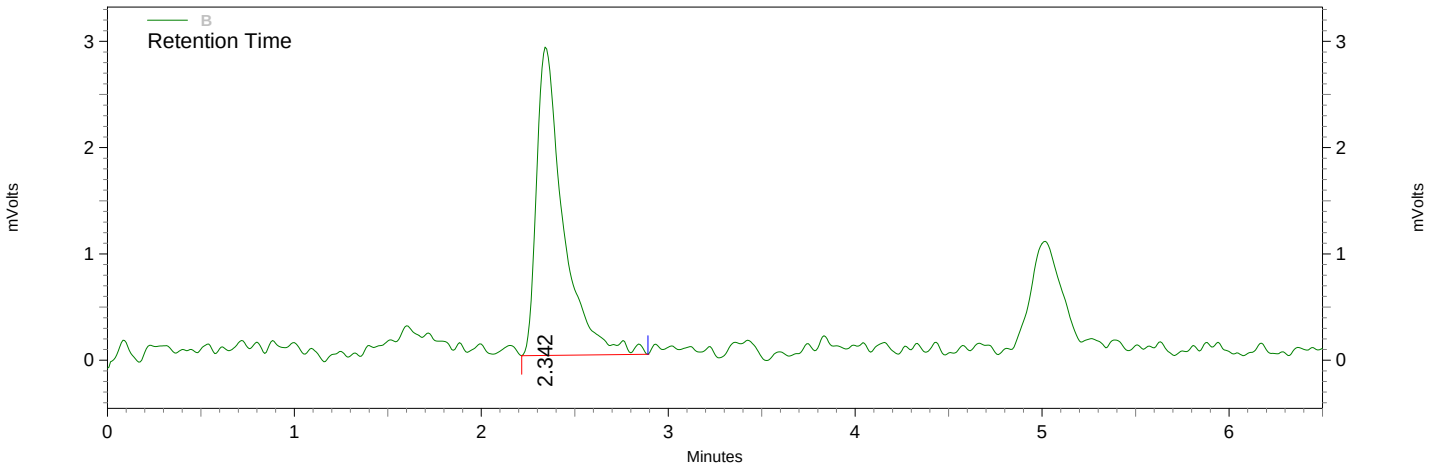
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.080	0.059	25.846	30.000	Passed

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\058.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ MRL check EXP 5074
Acquired: Aug 28, 2013 17:33:53
Data Summary: {Data Description}





A Results

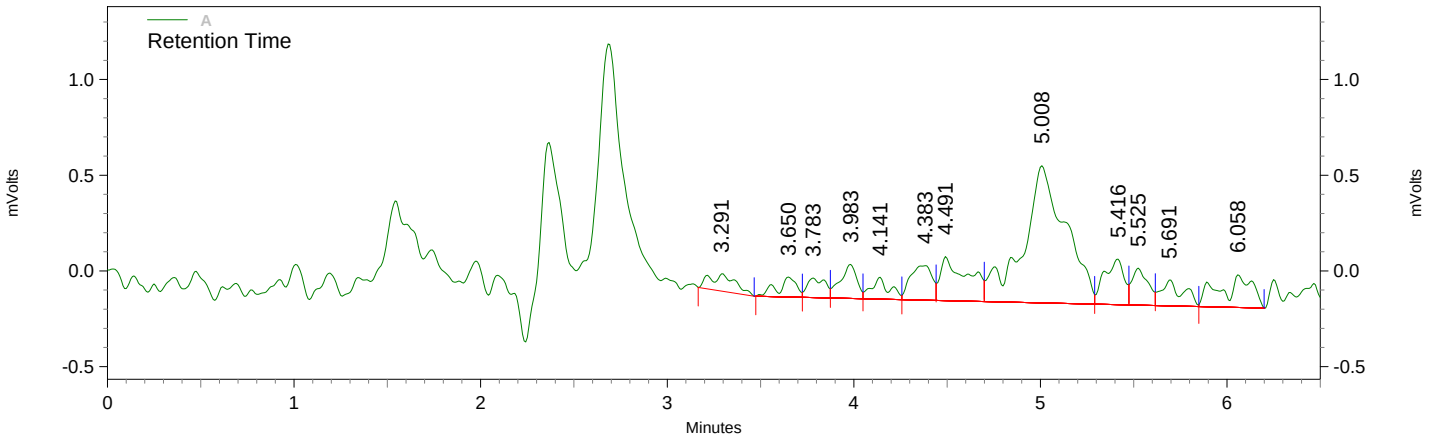
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.008	18035	**35.887**

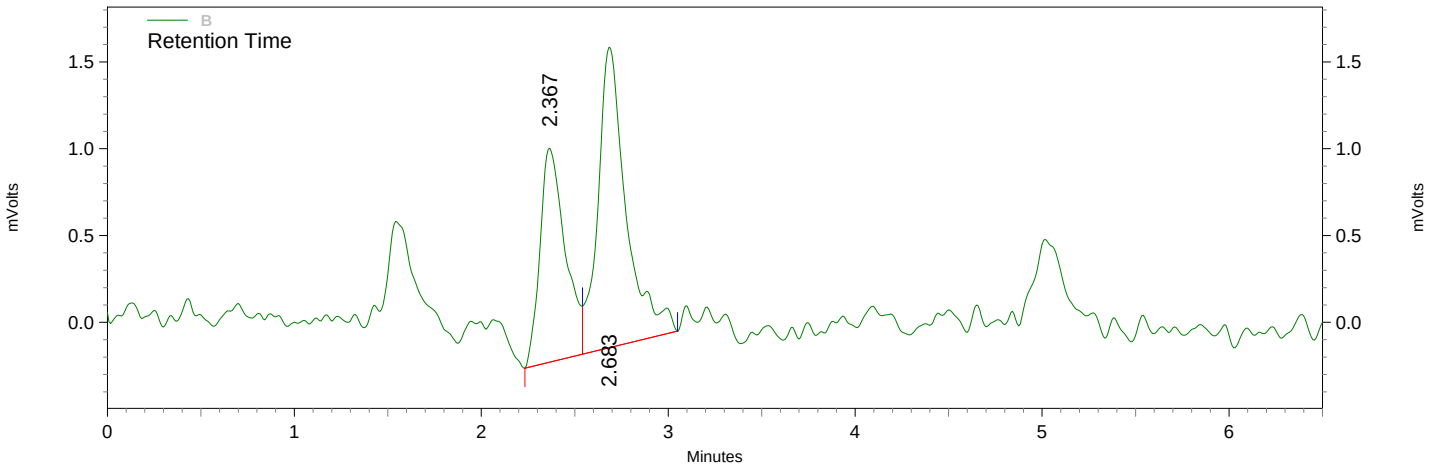
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.342	28683	**0.059**

Explosives - 8330

File: C:\Instarch\HPLC 1\Data\NQ\082813nq-primary\059.dat
User ID: **RED**
Method: C:\Instarch\HPLC 1\Methods\NQ\121712nqic-primary\082813NQ-primary.met
Sample ID: NQ MDL check EXP 5073
Acquired: Aug 28, 2013 17:42:03
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
12-DNB (SSTD)	5.008	11331	**21.982**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	2.367	11515	**0.011**

NITROAROMATICS ANALYSIS
LOGBOOK
DOCUMENTS

S 8330B EXPLOSIVES QSM Analytical Run
97103 on 8/23/2013

RED
09/05/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
97807	311330		6/10/2013			CT LABORATORIES	QSM Quarterly Check	8330B EXPLOSIVES QSM		GW	**1**	
		LOD							45570			
99335	339561		8/15/2013	0930		ECC	RVAAP	8330B EXPLOSIVES QSM		GW	**4**	
		083SB-0023-0001-ER							45570			
	341681							8330B EXPLOSIVES QSM				
					MBW				45570			
	341682							8330B EXPLOSIVES QSM				
					LCSW				45570			
	341683							8330B EXPLOSIVES QSM				
					LQCKW				45570			
99436	341966		8/21/2013	1300		CB&I	RVAAP MMRP	8330B EXPLOSIVES QSM		GW	**4**	
		RBQ-RB-001							45570			

6 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 8/23/2013

Prep Batch **45,570** Date Prepped: 8/22/2013 Prepped By RED

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	341681	MBW		8330B EXPLOSIVES	LIQUID	5.0		0.500		
	341682	LCSW		8330B EXPLOSIVES	LIQUID	5.0		0.500		
	341683	LQCK		8330B EXPLOSIVES	LIQUID	5.0		0.500		
97807	311330			8330B EXPLOSIVES	GROUND WATER	5.0		0.500	N	
99335	339561			8330B EXPLOSIVES	GROUND WATER	5.0		0.500	N	
99436	341966			8330B EXPLOSIVES	GROUND WATER	5.0		0.500	N	

Notes:_____

Explosives or Nitroguanidine Prep Bench Sheet

(SOP Reference #'s 8330A & 8330B)

8330A,8330B, or 8330M >>

Prep Batch #:	45570
Prep Method:	8330B
Analyst:	RED
Date:	8/22/2013
Start Time:	9:00
End Date:	8/23/2013
End Time:	14:00

Matrix: water
Balance Used: na

GPC By: na
GPC Date: na

Reagent:	Lot #
Methylene Chloride	na
Acetonitrile	34947
Methanol	na
0.1% Formic Acid	EXP 5067

Concentrated By: na
Concentration Date: na

Diluted By: RED
Dilution Date: 8/23/2013

8330A = Explosives (liquids/solids)
8330B = Explosives (liquids/solids)
8330M = Nitroguanidine (liquids/solids)

Sample ID #	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Extract Volume (ml)	Diluted (Yes/No)	Dilution Volume (ml)
341681	(MB)		0.500	5.0	YES	10.0
341682	(LCS)		0.500	5.0	YES	10.0
339561			0.500	5.0	YES	10.0
341966			0.500	5.0	YES	10.0
311330	LOD 30 uL		0.500	5.0	YES	10.0
341683	LOD/LOQ 40 uL		0.500	5.0	YES	10.0
	LOD/LOQ 50 uL		0.500	5.0	YES	10.0
	LOD/LOQ 100 uL		0.500	5.0	YES	10.0
	LOD/LOQ 150 uL		0.500	5.0	YES	10.0
	(Dup)					
	(Trip)					
	(MS) Parent Sample					
	(MSD)					

MB=Method Blank, LCS=Laboratory Control Sample, Dup=Duplicate, Trip=Triplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (ml): 0.5
Spike Concentration (ug/mL): 10/40
Spike Reference #: EXP 5066

Surrogate Spike Amount (ml): 0.5
Surrogate Spike Conc. (ug/mL): 10
Surrogate Spike Reference #: EXP 5065

Relinquished to: RED
Date: 8/23/2013

Reviewed By: RED
Date: 8/23/2013

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 97103	**Independent Reviewer: JJY**
Sequence Date: 8/28/2013	**Date of Review: 8/28/2013**
Analyst/Data Interpreter: RED	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 97103

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples		**No**		**No**	limited sample volume
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program	**na**		**N/A**		
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	limited sample volume
b. Were MSD within the acceptance criteria?	Per Program	**na**		**N/A**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**na**		**N/A**		

Additional Comments:

Analytical Run #: 97103

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?			**No**		**No**	Sample 341966 had high surrogate recovery and was qualified with an "S".
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**Yes**		**Yes**		
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\HPLC 2\Sequences\8330A_B\042513expic-primary.seq
User ID: RED
Printed Date: Apr 25, 2013 15:31:40

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	1:1 ACN:0.1%formic acid in...	001.dat	042513expic-primary....	Apr 25, 2013 14:56:19	
2	8330 Pt. 1 EXP 5002	002.dat	042513expic-primary....	Apr 25, 2013 16:48:21	Reason #3,#4 applies to d...
3	8330 Pt. 2 EXP 5003	003.dat	042513expic-primary....	Apr 25, 2013 17:06:37	Reason #1,#2,#3 applies t...
4	8330 Pt. 3 EXP 5004	004.dat	042513expic-primary....	Apr 25, 2013 17:24:55	Reason #1,#4 applies to d...
5	8330 Pt. 4 EXP 5005	005.dat	042513expic-primary....	Apr 25, 2013 17:43:13	
6	8330 Pt. 5 EXP 5006	006.dat	042513expic-primary....	Apr 25, 2013 18:01:29	Reason #1 applies to data...
7	8330 Pt. 6 EXP 5007	007.dat	042513expic-primary....	Apr 25, 2013 18:19:45	
8	8330 Pt. 7 EXP 5008	008.dat	042513expic-primary....	Apr 25, 2013 18:38:02	
9	8330 ICV EXP 5009	009.dat	042513expic-primary....	Apr 25, 2013 18:56:20	
10	8330 CCV EXP 5005	010.dat	042513expic-primary....	Apr 25, 2013 19:14:40	Reason #3,#4 applies to d...
11	8330A MBS	011.dat	042513expic-primary....	Apr 25, 2013 19:32:58	
12	8330A S MDL 1	012.dat	042513expic-primary....	Apr 25, 2013 19:51:17	Reason #3,#4 applies to d...
13	8330A S MDL 2	013.dat	042513expic-primary-...	Apr 25, 2013 20:09:34	
14	8330A S MDL 3	014.dat	042513expic-primary-...	Apr 25, 2013 20:27:52	
15	8330A S MDL 4	015.dat	042513expic-primary....	Apr 25, 2013 20:46:09	
16	8330A S MDL 5	016.dat	042513expic-primary....	Apr 25, 2013 21:04:25	
17	8330A S MDL 6	017.dat	042513expic-primary....	Apr 25, 2013 21:22:42	
18	8330A S MDL 7	018.dat	042513expic-primary....	Apr 25, 2013 21:40:59	
19	8330A S MDL 8	019.dat	042513expic-primary....	Apr 25, 2013 21:59:16	
20	8330 CCV EXP 5005	020.dat	042513expic-primary....	Apr 25, 2013 22:17:37	
21	93371,MBW,,8330A	021.dat	042513expic-primary-...	Apr 25, 2013 22:35:55	
22	93371,LCSW,,8330A	022.dat	042513expic-primary-...	Apr 25, 2013 22:54:13	Reason #1,#4 applies to d...
23	93371,289827,,8330A	023.dat	042513expic-primary-...	Apr 25, 2013 23:12:30	
24	93289,MBW,	024.dat	042513expic-primary-...	Apr 25, 2013 23:30:48	
25	93289,LCSW,	025.dat	042513expic-primary-...	Apr 25, 2013 23:49:05	
26	93289,277914,,8330A PT	026.dat	042513expic-primary-...	Apr 26, 2013 00:07:22	
27	93289,269643,,30 UL LOD ...	027.dat	042513expic-primary-...	Apr 26, 2013 00:25:37	
28	8330 CCV EXP 5005	028.dat	042513expic-primary....	Apr 26, 2013 00:43:54	

Summary Report

Instrument ID: **HPLC 2 (Offline)**
Data Path: **C:\Instarch\HPLC 2\Sequences\8330A_B\082813exp-primary.seq**
User ID: **RED**
Printed Date: **Aug 28, 2013 09:44:42**

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	1:1 ACN:0.1%formic acid in...	001.dat	082813exp-primary.met	Aug 28, 2013 09:27:41	
2	8330 CCV EXP 5071	002.dat	082813exp-primary.met	Aug 28, 2013 09:45:58	
3	8330 MRL check EXP 5069	003.dat	082813exp-primary.met	Aug 28, 2013 10:04:16	Reason #3, #4 applies to ...
4	8330 MDL check EXP 5070	004.dat	082813exp-primary.met	Aug 28, 2013 10:22:34	Reason #3, #4 applies to ...
5	97103,MBW,	005.dat	082813exp-primary.met	Aug 28, 2013 10:40:52	Reason #3, #4 applies to ...
6	97103,LCSW,	006.dat	082813exp-primary.met	Aug 28, 2013 10:59:08	
7	97103,339561,	007.dat	082813exp-primary.met	Aug 28, 2013 11:17:29	Reason #3, #4 applies to ...
8	97103,341966,	008.dat	082813exp-primary.met	Aug 28, 2013 11:36:30	Reason #3, #4 applies to ...
9	97059,LCSS,	009.dat	082813exp-primary.met	Aug 28, 2013 11:54:47	
10	8330 MRL check EXP 5069	010.dat	082813exp-primary.met	Aug 28, 2013 12:13:06	
11	8330 MDL check EXP 5070	011.dat	082813exp-primary.met	Aug 28, 2013 12:31:23	Reason #3, #4 applies to ...
12	8330 CCV EXP 5071	012.dat	082813exp-primary.met	Aug 28, 2013 12:49:39	

EXP4957 8330CCV — 0.500mL EXP4938 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 10mL. Final conc. = 0.5/2.0 ug/mL. Prepared 3/6/2013 by RED. Expires 3/7/2013 – 3/6/2013

EXP4958 8330CCV — 0.500mL EXP4938 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 10mL. Final conc. = 0.5/2.0 ug/mL. Prepared 3/8/13 by RED - expires 3/9/2013 – 3/8/2013

EXP4959 8330CCV — 0.250mL EXP4938 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to ~~5mL~~ 10mL 3/11/13. Final conc. = 0.5/2.0 ug/mL. Prepared 3/4/13 by RED. Expires 3/12/13 – 3/11/13

EXP4960 8330CCV — 0.250mL EXP4938 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 5mL. Final conc. = 0.5/2.0 ug/mL. Prepared 3/12/13 by RED. Expires 3/13/13. 3/12/2013

EXP4961 8330CCV — 0.250mL EXP4938 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 5mL. Final conc. = 0.5/2.0 ug/mL. Prepared 3/14/2013 by RED. Expires 3/15/2013 – 3/14/2013

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4962	8330 Second Source	ACN lot	15-Mar-13 red 15-Sep-13	S2745	100	ug/mL	1.000	10.00	10.00	ug/ml
				S2746	100	ug/mL	1.000	10.00	10.00	ug/ml
				S2447B	1000	ug/mL	0.100	10.00	10.00	ug/ml
				S2748	1000	ug/mL	0.400	10.00	40.00	ug/ml
		lot 18114	3/15/13	S2747	1000	ug/mL	0.400	10.00	40.00	ug/ml
				S2755C	1000	ug/mL	0.100	10.00	10.00	ug/ml

Continued on Page

Read and Understood By

Signed Date Signed Date

Exp 4997 Halogen CCV

0.500 mL Exp 4993 @ 10 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 10 mL. Final Conc. = 0.5 ug/mL. Prepared 4/9/13 by Req. Expires 4/10/13.

Req 4/9/2013

Exp 4998 Halogen CCV

0.250 mL Exp 4993 @ 10 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 5 mL. Final Conc. = 0.5 ug/mL. Prepared 4/10/13 by Req. Expires 4/11/13.

Req 4/10/2013

Exp 4999 8330 CCV

0.500 mL Exp 4976 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 10 mL. Final Conc. = 0.5/2.0 ug/mL. Prepared 4/11/13 by Req. Expires 4/12/13.

Req 4/11/2013

Exp 5000 8330 Spike

0.250 mL S2797 @ 1000 ug/mL
0.250 mL S2755E @ 1000 ug/mL
0.250 mL S2588 @ 1000 ug/mL
1.00 mL S2777/2795A @ 1000 ug/mL
1.00 mL S2776/2794A @ 1000 ug/mL

} Into 25 mL ACN lot 18114

Final Conc. = 10/40 ug/mL. by Req. Expires 10/22/13.

Prepared 4/22/13

Req 4/22/2013

Exp 5001 8330 Surrogate

0.250 mL S2755E @ 1000 ug/mL into ACN lot 18114 to 25 mL. Final conc. = 10 ug/mL. by Req. Expires 10/25/2013.

Prepared 4/25/13

Req 4/25/13

Continued on Page

Read and Understood By

Signed Date Signed Date

	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 5002	8330 Pt 1	1:1 ACN:0.1% formic acid in water	25-Apr-13 red 26-Apr-13	EXP 5000 8330mix	10	ug/mL	0.005	1.00	0.05	ug/ml
				EXP 5000 NG-PETN	40	ug/mL	0.005	1.00	0.20	ug/ml
EXP 5003	8330 Pt 2			EXP 5000 8330mix	10	ug/mL	0.010	1.00	0.10	ug/ml
				EXP 5000 NG-PETN	40	ug/mL	0.010	1.00	0.40	ug/ml
EXP 5004	8330 Pt 3			EXP 5000 8330mix	10	ug/mL	0.025	1.00	0.25	ug/ml
				EXP 5000 NG-PETN	40	ug/mL	0.025	1.00	1.00	ug/ml
EXP 5005	8330 Pt 4 (CCV)			EXP 5000 8330mix	10	ug/mL	0.500	10.00	0.50	ug/ml
				EXP 5000 NG-PETN	40	ug/mL	0.500	10.00	2.00	ug/ml
EXP 5006	8330 Pt 5			EXP 5000 8330mix	10	ug/mL	0.100	1.00	1.00	ug/ml
				EXP 5000 NG-PETN	40	ug/mL	0.100	1.00	4.00	ug/ml
EXP 5007	8330 Pt 6			EXP 5000 8330mix	10	ug/mL	0.200	1.00	2.00	ug/ml
				EXP 5000 NG-PETN	40	ug/mL	0.200	1.00	8.00	ug/ml
EXP 5008	8330 Pt 7			EXP 5000 8330mix	10	ug/mL	0.300	1.00	3.00	ug/ml
				EXP 5000 NG-PETN	40	ug/mL	0.300	1.00	12.00	ug/ml
EXP 5009	8330 ICV (second source)			EXP 4962 8330mix	10	ug/mL	0.050	1.00	0.50	ug/ml
				EXP 4962 NG-PETN	40	ug/mL	0.050	1.00	2.00	ug/ml

RED 4/25/13

EXP 5010 8330 CCV
0.500 mL EXP 5000 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 10 mL. Final conc. = 0.5/2.0 ug/mL. Prepared 4/26/2013 by RED. Expires 4/27/2013.

RED 4/26/2013

EXP 5011 8330 CCV
0.250 mL EXP 5000 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 5 mL. Final conc. = 0.5/2.0 ug/mL. Prepared 4/29/2013 by RED. Expires 4/30/2013.

RED 4/29/2013

EXP 5012 8330 CCV
0.250 mL EXP 5000 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 5 mL. Final conc. = 0.5/2.0 ug/mL. Prepared 5/1/2013 by RED. Expires 5/2/2013.

RED 5/1/2013

EXP 5013 8330 CCV
0.500 mL EXP 5000 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to 5 mL. Final conc. = 0.5/2.0 ug/mL. Prepared 5/2/2013 by RED. Expires 5/3/2013

RED 5/2/2013

Continued on Page

Read and Understood By

Signed	Date	Signed	Date

Exp 5063 NQ Soil LCS

100 ~~250~~ g clean soil matrix was spiked with 10 ~~25~~ mL of MeOH containing ~~0.5~~ 0.2 mL S2587B @ 1000 µg/mL and ~~0.5~~ 0.2 mL S2796C @ 1000 µg/mL. The final soil concentration of both NQ and Surrogate is 2.00 mg/kg. Prepared 8/21/2013 by REB.
Expires 2/21/2014.

8/21/2013

Exp 5064 NQ Spike

0.100 mL S2587B @ 1000 µg/mL + 0.100 mL S2796B @ 1000 µg/mL into 1:1 MeOH:H_2O. Final volume = 10mL. Final Conc. = 10 µg/mL. Prepared 8/21/13 by REB.
Expires 2/21/14.

8/21/2013

Exp 5065 8330 Surrogate

0.500 mL ~~S2587~~ S2796B/C @ 1000 µg/mL into ACN to a final volume of 50mL. Final Conc. = 10 µg/mL. Prepared 8/21/13. Expires 2/21/14.

8/21/2013

Exp 5066 8330 Spike

0.250 mL S2797 @ 1000 µg/mL
0.250 mL S2588/S2798 @ 1000 µg/mL
0.250 mL S2796C @ 1000 µg/mL
1.00 mL S2795A/S2841A @ 1000 µg/mL
1.00 mL S2794A/2794B @ 1000 µg/mL
} into ACN; Final Volume = 25mL. Final Conc. = 10/40 µg/mL

Prepared 8/21/13 by REB. Expires 2/6/2014.

8/21/2013

Continued on Page

Read and Understood By

Signed Date Signed Date

Exp 5067 0.1% formic acid in H_2O
4mL 99% formic acid Lot 0418TE in 4L H_2O.
Prepared 8/22/13 by RED Expires 2/14/14.
8/22/13

Exp 5068 8330 CCV
0.500 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H_2O to 10mL. Final conc. = 0.5/2.0 µg/mL. Prepared 8/26/13 by RED.
Expires 8/27/13.
8/26/2013

Exp 5069 8330 MRL check std
0.100 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H_2O to 10mL. Final conc. = 0.10/0.40 µg/mL.
Prepared 8/27/13 by RED Expires 8/28/13.
8/14/14
Read 8/24/2013

Exp 5070 8330 MDL check std
0.050 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H_2O to 10mL. Final conc. = 0.05/0.20 µg/mL.
Prepared 8/27/13 by RED. Expires 8/28/13.
8/27/2013

Exp 5071 8330 CCV
0.500 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H_2O to 10mL. Final conc. = 0.5/2.0 µg/mL.
Prepared 8/27/13 by RED Expires 8/28/13.
8/27/13

Exp 5072 NQ CCV
0.500mL Exp 5064 @ 10 µg/mL in 1:1 MeOH:H_2O to 10mL. Final conc. = 0.5 µg/mL. Prepared 8/27/13 by RED.
Expires 2/21/14. Read 8/27/2013

Continued on Page

Read and Understood By

Signed Date Signed Date

S EXPLOSIVES NITROGUAN Analytical Run
97104 on Sep 05, 2013

RED 09/05/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	341684						EXPLOSIVES NITROGUAN				
				MBW				45571			
	341685						EXPLOSIVES NITROGUAN				
				LCSW				45571			
99335	339561		Aug 15, 2013 0930		ECC	RVAAP	EXPLOSIVES NITROGUAN		GW	**4**	
		083SB-0023-0001-ER						45571			
99436	341966		Aug 21, 2013 1300		CB&I	RVAAP MMRP	EXPLOSIVES NITROGUAN		GW	**4**	
		RBQ-RB-001						45571			
97807	311330		Jun 10, 2013		CT LABORATORIES	QSM Quarterly Check	EXPLOSIVES NITROGUAN		GW	**1**	
		LOD						45571			
	341687						EXPLOSIVES NITROGUAN				
				LQCKW 341685				45571			

6 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 8/23/2013

Prep Batch **45,571** Date Prepped: 8/22/2013 Prepped By RED

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	341684	MBW		EXPLOSIVES	LIQUID	5.0		0.005		
	341685	LCSW		EXPLOSIVES	LIQUID	5.0		0.005		
	341687	LQCK	341685	EXPLOSIVES	LIQUID	5.0		0.005		
97807	311330			EXPLOSIVES	GROUND WATER	5.0		0.005	N	
99335	339561			EXPLOSIVES	GROUND WATER	5.0		0.005	N	
99436	341966			EXPLOSIVES	GROUND WATER	5.0		0.005	N	

Notes:_____

Explosives or Nitroguanidine Prep Bench Sheet

(SOP Reference #'s 8330A & 8330B)

Prep Batch #:	45571
Prep Method:	8330M
Analyst:	RED
Date:	8/22/2013
Start Time:	9:00
End Date:	8/22/2013
End Time:	10:00

8330A,8330B, or 8330M >>

Matrix: water

Balance Used: na

GPC By: na

GPC Date: na

Reagent:	Lot #
Methylene Chloride	na
Acetonitrile	na
Methanol	132577
0.1% Formic Acid	na

Concentrated By: na

Concentration Date: na

Diluted By: RED

Dilution Date: 8/22/2013

8330A = Explosives (liquids/solids)
8330B = Explosives (liquids/solids)
8330M = Nitroguanidine (liquids/solids)

Sample ID #	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Extract Volume (ml)	Diluted (Yes/No)	Dilution Volume (ml)
341684	(MB)		0.005	5.0	YES	10.0
341685	(LCS)		0.005	5.0	YES	10.0
311330	**LOD 50 uL**		0.005	5.0	YES	10.0
341687	**LOQ 60 uL**		0.005	5.0	YES	10.0
339561			0.005	5.0	YES	10.0
341966			0.005	5.0	YES	10.0
	(Dup)					
	(Trip)					
	(MS) Parent Sample					
	(MSD)					

MB=Method Blank, LCS=Laboratory Control Sample, Dup=Duplicate, Trip=Triplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (ml): 0.5

Spike Concentration (ug/mL): 10

Spike Reference #: EXP 5064

Surrogate Spike Amount (ml): 0.5

Surrogate Spike Conc. (ug/mL): 10

Surrogate Spike Reference #: EXP 5065

Relinquished to: RED

Date: 8/22/2013

Reviewed By: RED

Date: 8/23/2013

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 97104	**Independent Reviewer: JJY**
Sequence Date: 8/28/2013	**Date of Review: 8/29/2013**
Analyst/Data Interpreter: RED	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 97104

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples		**No**		**No**	LIMITED SAMPLE
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program	**NA**		**N/A**		
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples		**No**		**No**	LIMITED SAMPLE
b. Were MSD within the acceptance criteria?	Per Program	**NA**		**N/A**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**NA**		**N/A**		

Additional Comments:

Analytical Run #: 97104

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**NA**		**N/A**		WATER SAMPLES
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**NA**		**N/A**		WATER SAMPLES
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Summary Report

Instrument ID: HPLC 1 (Offline)
Data Path: C:\Instarch\HPLC 1\Sequence\NQ\121712NQic-primary.seq
User ID: RED
Printed Date: Dec 17, 2012 16:01:24

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	1:1 MeOH:H2O	001.dat	121712NQic-primary....	Dec 17, 2012 15:54:23	
2	NQ Pt 1 EXP 4907	002.dat	121712NQic-primary....	Dec 17, 2012 16:03:05	
3	NQ Pt 2 EXP 4908	003.dat	121712NQic-primary....	Dec 17, 2012 16:11:47	
4	NQ Pt 3 EXP 4909	004.dat	121712NQic-primary....	Dec 17, 2012 16:20:28	
5	NQ Pt 4 EXP 4910	005.dat	121712NQic-primary....	Dec 17, 2012 16:29:10	
6	NQ Pt 5 EXP 4911	006.dat	121712NQic-primary....	Dec 17, 2012 16:37:51	Reason #3 applies to data...
7	NQ Pt 6 EXP 4912	007.dat	121712NQic-primary....	Dec 17, 2012 16:46:33	
8	NQ Pt 7 EXP 4913	008.dat	121712NQic-primary....	Dec 17, 2012 16:55:14	
9	NQ ICV EXP 4914	009.dat	121712NQic-primary....	Dec 17, 2012 17:03:55	
10	NQ CCV EXP 4910	010.dat	121712NQic-primary....	Dec 17, 2012 17:12:39	
11	NQ MRL Check Std EXP 4...	011.dat	121712NQic-primary....	Dec 17, 2012 17:21:22	
12	NQ MDL Check Std EXP 4...	012.dat	121712NQic-primary....	Dec 17, 2012 17:30:05	
13	90050,MBW,	013.dat	121712NQic-primary....	Dec 17, 2012 17:38:47	
14	90050,LCSW,	014.dat	121712NQic-primary....	Dec 17, 2012 17:47:29	
15	90050,246661,	015.dat	121712NQic-primary....	Dec 17, 2012 17:56:09	
16	90282,MBS,	016.dat	121712NQic-primary....	Dec 17, 2012 18:04:50	
17	90282,LCSS,	017.dat	121712NQic-primary....	Dec 17, 2012 18:13:31	
18	90282,245900,	018.dat	121712NQic-primary....	Dec 17, 2012 18:22:12	
19	245900 DUP.	019.dat	121712NQic-primary....	Dec 17, 2012 18:30:52	
20	245900 TRIP.	020.dat	121712NQic-primary....	Dec 17, 2012 18:39:36	
21	90282,245901,	021.dat	121712NQic-primary....	Dec 17, 2012 18:48:19	
22	90282,245908,	022.dat	121712NQic-primary....	Dec 17, 2012 18:57:02	
23	NQ CCV EXP 4910	023.dat	121712NQic-primary....	Dec 17, 2012 19:05:44	
24	90282,245921,	024.dat	121712NQic-primary....	Dec 17, 2012 19:14:25	Reason #3 applies to data...
25	90282,245927,	025.dat	121712NQic-primary....	Dec 17, 2012 19:23:06	Reason #3 applies to data...
26	90282,MSS245900,	026.dat	121712NQic-primary....	Dec 17, 2012 19:31:48	
27	90282,MSDS245900,	027.dat	121712NQic-primary....	Dec 17, 2012 19:40:28	
28	90283,MBS,	028.dat	121712NQic-primary....	Dec 17, 2012 19:49:08	
29	90283,LCSS,	029.dat	121712NQic-primary....	Dec 17, 2012 19:57:50	
30	90283,246771,	030.dat	121712NQic-primary....	Dec 17, 2012 20:06:33	
31	246771 DUP.	031.dat	121712NQic-primary....	Dec 17, 2012 20:15:15	
32	246771 TRIP.	032.dat	121712NQic-primary....	Dec 17, 2012 20:23:58	
33	90283,246784,	033.dat	121712NQic-primary....	Dec 17, 2012 20:32:40	
34	NQ CCV EXP 4910	034.dat	121712NQic-primary....	Dec 17, 2012 20:41:22	
35	90283,246786,	035.dat	121712NQic-primary....	Dec 17, 2012 20:50:02	
36	90283,246834,	036.dat	121712NQic-primary....	Dec 17, 2012 20:58:44	
37	90283,246878,	037.dat	121712NQic-primary....	Dec 17, 2012 21:07:23	
38	90283,MSS246771,	038.dat	121712NQic-primary....	Dec 17, 2012 21:16:04	Reason #3 applies to data...
39	90283,MSDS246771,	039.dat	121712NQic-primary....	Dec 17, 2012 21:24:44	Reason #3 applies to data...
40	NQ MRL Check Std EXP 4...	040.dat	121712NQic-primary....	Dec 17, 2012 21:33:27	
41	NQ MDL Check Std EXP 4...	041.dat	121712NQic-primary....	Dec 17, 2012 21:42:10	
42	NQ CCV EXP 4910	042.dat	121712NQic-primary....	Dec 17, 2012 21:50:53	
43	90050,207405,	043.dat	121712NQic-primary....	Dec 17, 2012 21:59:33	
44	90050 212055 LOQCK 1	044.dat	121712NQic-primary....	Dec 17, 2012 22:08:15	
45	90050 212055 LOQCK 2	045.dat	121712NQic-primary....	Dec 17, 2012 22:16:57	
46	90050 212055 LOQCK 3	046.dat	121712NQic-primary....	Dec 17, 2012 22:25:37	
47	90050 212055 LOQCK 4	047.dat	121712NQic-primary....	Dec 17, 2012 22:34:18	
48	90050,246664,	048.dat	121712NQic-primary....	Dec 17, 2012 22:42:58	
49	90050,246667,	049.dat	121712NQic-primary....	Dec 17, 2012 22:51:37	
50	90050,246668,	050.dat	121712NQic-primary....	Dec 17, 2012 23:00:22	
51	90050,246669,	051.dat	121712NQic-primary....	Dec 17, 2012 23:09:05	
52	90050,246670,	052.dat	121712NQic-primary....	Dec 17, 2012 23:17:46	
53	NQ CCV EXP 4910	053.dat	121712NQic-primary....	Dec 17, 2012 23:26:27	Reason #4 applies to data...

Summary Report

Instrument ID: HPLC 1 (Offline)
Data Path: C:\Instarch\HPLC 1\Sequence\NQ\082813NQ-primary.seq
User ID: RED
Printed Date: Aug 28, 2013 13:00:48

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	1:1 MeOH:H2O	001.dat	082813NQ-primary.met	Aug 28, 2013 09:46:57	
2	NQ CCV EXP 5072	002.dat	082813NQ-primary.met	Aug 28, 2013 09:55:10	
3	NQ MRL check EXP 5074	003.dat	082813NQ-primary.met	Aug 28, 2013 10:03:22	
4	NQ MDL check EXP 5073	004.dat	082813NQ-primary.met	Aug 28, 2013 10:11:33	
5	97061,MBS,	005.dat	082813NQ-primary.met	Aug 28, 2013 10:19:44	
6	97061,LCSS,	006.dat	082813NQ-primary.met	Aug 28, 2013 10:27:56	Reason #4 applies to data...
7	97061,337811,	007.dat	082813NQ-primary.met	Aug 28, 2013 10:36:06	Reason #4 applies to data...
8	97061,337812,	008.dat	082813NQ-primary.met	Aug 28, 2013 10:44:18	
9	97061,337813,	009.dat	082813NQ-primary.met	Aug 28, 2013 10:52:29	
10	97061,337815,	010.dat	082813NQ-primary.met	Aug 28, 2013 11:00:44	
11	DUP 337815	011.dat	082813NQ-primary.met	Aug 28, 2013 11:08:57	
12	TRIP 337815	012.dat	082813NQ-primary.met	Aug 28, 2013 11:17:10	
13	97061,337818,	013.dat	082813NQ-primary.met	Aug 28, 2013 11:25:20	
14	97061,337820,	014.dat	082813NQ-primary.met	Aug 28, 2013 11:33:33	
15	NQ CCV EXP 5072	015.dat	082813NQ-primary.met	Aug 28, 2013 11:41:44	
16	97061,337822,	016.dat	082813NQ-primary.met	Aug 28, 2013 11:49:54	
17	97061,337824,	017.dat	082813NQ-primary.met	Aug 28, 2013 11:58:05	
18	97061,337826,	018.dat	082813NQ-primary.met	Aug 28, 2013 12:06:16	
19	97061,337828,	019.dat	082813NQ-primary.met	Aug 28, 2013 12:14:27	
20	97061,337830,	020.dat	082813NQ-primary.met	Aug 28, 2013 12:22:40	
21	97061,337832,	021.dat	082813NQ-primary.met	Aug 28, 2013 12:30:54	
22	97061,337834,	022.dat	082813NQ-primary.met	Aug 28, 2013 12:39:07	
23	97061,MSS337815,	023.dat	082813NQ-primary.met	Aug 28, 2013 12:47:17	
24	97061,MSDS337815,	024.dat	082813NQ-primary.met	Aug 28, 2013 12:55:30	
25	97062,MBS,	025.dat	082813NQ-primary.met	Aug 28, 2013 13:03:41	
26	NQ CCV EXP 5072	026.dat	082813NQ-primary.met	Aug 28, 2013 13:11:51	
27	97062,LCSS,	027.dat	082813NQ-primary.met	Aug 28, 2013 13:20:02	
28	97062,338369,	028.dat	082813NQ-primary.met	Aug 28, 2013 13:28:12	
29	DUP 338369	029.dat	082813NQ-primary.met	Aug 28, 2013 13:36:23	
30	TRIP 338369	030.dat	082813NQ-primary.met	Aug 28, 2013 13:44:37	
31	97062,338375,	031.dat	082813NQ-primary.met	Aug 28, 2013 13:52:50	
32	97062,MSS338369,	032.dat	082813NQ-primary.met	Aug 28, 2013 14:01:02	
33	97062,MSDS338369,	033.dat	082813NQ-primary.met	Aug 28, 2013 14:09:14	
34	97063,MBS,	034.dat	082813NQ-primary.met	Aug 28, 2013 14:17:26	
35	97063,311331,,LOD 60uL	035.dat	082813NQ-primary.met	Aug 28, 2013 14:25:36	
36	NQ S LOQ 125 uL	036.dat	082813NQ-primary.met	Aug 28, 2013 14:33:47	
37	NQ CCV EXP 5072	037.dat	082813NQ-primary.met	Aug 28, 2013 14:41:58	
38	NQ S LOQ 125 uL	038.dat	082813NQ-primary.met	Aug 28, 2013 14:50:08	
39	NQ S LOQ 125 uL	039.dat	082813NQ-primary.met	Aug 28, 2013 14:58:19	
40	NQ S LOQ 125 uL	040.dat	082813NQ-primary.met	Aug 28, 2013 15:06:30	
41	97104,MBW,	041.dat	082813NQ-primary.met	Aug 28, 2013 15:14:43	
42	97104,LCSW,	042.dat	082813NQ-primary.met	Aug 28, 2013 15:22:55	
43	97104,339561,	043.dat	082813NQ-primary.met	Aug 28, 2013 15:31:07	
44	97104,341966,	044.dat	082813NQ-primary.met	Aug 28, 2013 15:39:19	
45	97104,311330,,LOD 50 uL	045.dat	082813NQ-primary.met	Aug 28, 2013 15:47:29	
46	NQ W LOQ 60 uL	046.dat	082813NQ-primary.met	Aug 28, 2013 15:55:40	
47	NQ W LOQ 60 uL	047.dat	082813NQ-primary.met	Aug 28, 2013 16:03:51	
48	NQ CCV EXP 5072	048.dat	082813NQ-primary.met	Aug 28, 2013 16:12:01	
49	NQ W LOQ 60 uL	049.dat	082813NQ-primary.met	Aug 28, 2013 16:20:12	
50	NQ W LOQ 60 uL	050.dat	082813NQ-primary.met	Aug 28, 2013 16:28:22	
51	97217,MBS,	051.dat	082813NQ-primary.met	Aug 28, 2013 16:36:36	
52	97217,LCSS,	052.dat	082813NQ-primary.met	Aug 28, 2013 16:44:47	
53	97217,340181,	053.dat	082813NQ-primary.met	Aug 28, 2013 16:53:00	
54	DUP 340181	054.dat	082813NQ-primary.met	Aug 28, 2013 17:01:10	
55	TRIP 340181	055.dat	082813NQ-primary.met	Aug 28, 2013 17:09:22	
56	97217,MSS340181,	056.dat	082813NQ-primary.met	Aug 28, 2013 17:17:33	
57	97217,MSDS340181,	057.dat	082813NQ-primary.met	Aug 28, 2013 17:25:44	
58	NQ MRL check EXP 5074	058.dat	082813NQ-primary.met	Aug 28, 2013 17:33:53	
59	NQ MDL check EXP 5073	059.dat	082813NQ-primary.met	Aug 28, 2013 17:42:03	
60	NQ CCV EXP 5072	060.dat	082813NQ-primary.met	Aug 28, 2013 17:50:16	

EXP4892 8330 CCV
0.250 mL exP4889 @ 10/40 ug/mL into 1:1 ACN: 0.1% formic acid in H2O to 5 mL. Final Conc. = 0.5/2.0 ug/mL
Prepared 12/2/2012 by Rea
Expires 12/3/2012
12/2/2012

EXP4893 8330 CCV
0.250 mL exP4889 @ 10/40 ug/mL into 1:1 ACN: 0.1% formic acid in H2O to 5 mL. Final Conc. = 0.5/20 ug/mL
Prepared 12/3/2012 by REA Expires 12/4/2012.
12/3/2012

EXP 4894 0.1% formic acid in H2O
4 mL 99% formic acid (Sigma Aldrich lot 04817JE) into 4L H2O. Prepared 12/3/2012 by Rea Expires 2/14/2013.
12/3/2012

EXP 4895 8330 CCV
0.250 mL exP4889 @ 10/40 ug/mL into 1:1 ACN: 0.1% formic acid in H2O to 5 mL. Final Conc. = 0.5/2.0 ug/mL
Prepared 12/4/2012 by Rea Expires 12/5/2012.
12/4/2012

EXP4896 LLR Spike
0.100 mL S25587A @ 1000 ug/mL
0.100 mL S27571D @ 1000 ug/mL
} Into 50:50 MeOH: H2O to 10 mL.
Final Conc. = 10 ug/mL
Prepared 12/5/2012 by Rea Expires 2/28/2013
12/5/2012

Continued on Page

Read and Understood By

Signed Date Signed Date

EXP 4903 0.250 mL EXP 4889 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 5.0 mL Final conc = 0.5/2.0 ug/mL Prepared 12/11/12 by Red - Expires 12/12/12.

Red 12/11/2012

EXP 4904 0.250 mL EXP 4889 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 5.0 mL Final conc. = 0.5/2.0 ug/mL. Prepared 12/12/12 by RED - Expires 12/13/12.

12/12/12

EXP 4905 0.250 mL EXP 4889 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 5.0 mL. Final conc. = 0.5/2.0 ug/mL. Prepared 12/14/12 by RED. Expires 12/15/12.

12/14/12

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4906	NQ 2nd Source	MeOH:H2O (1:1)	17-Dec-12 RED 17-Jun-13	S2223-01 100 ug/mL S2751D 1000 ug/mL	1.000 0.1	10.00 10.00	10.00 ug/ml 10.00 ug/ml

12/17/12

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4907	NQ Linearity PT 1	1:1 MeOH:H2O lot 113437	20-Feb-12 RED 20-Jul-12	EXP 4896 10 ug/mL EXP 4890 10 ug/mL	0.004 0.004	1.0 1.0	0.04 ug/ml 0.08 ug/ml
EXP 4908	NQ Linearity PT 2			EXP 4896 10 ug/mL EXP 4890 10 ug/mL	0.008 0.008	1.0 1.0	0.08 ug/ml 0.16 ug/ml
EXP 4909	NQ Linearity PT 3			EXP 4896 10 ug/mL EXP 4890 10 ug/mL	0.020 0.020	1.0 1.0	0.20 ug/ml 0.40 ug/ml
EXP ~~4910~~ 4910	NQ Linearity PT 4 (CCV)			EXP 4896 10 ug/mL	0.500	10.0	0.50 ug/ml
EXP ~~4911~~ 4911	NQ Linearity PT 5			EXP 4896 10 ug/mL	0.100	1.0	1.00 ug/ml
EXP ~~4912~~ 4912	NQ Linearity PT 6			EXP 4896 10 ug/mL	0.200	1.0	2.00 ug/ml
EXP ~~4913~~ 4913	NQ Linearity PT 7			EXP 4896 10 ug/mL	0.250	1.0	2.50 ug/ml
EXP ~~4914~~ 4914	NQ ICV (2nd Source)	MeOH:H2O (1:1)	20-Feb-12 RED 20-Jul-12	EXP 4906 10 ug/mL	0.050	1.0	0.50 ug/ml

note: EXP ~~4716~~ 4916 also includes surrogate. Final concentration for EXP 4734 is total surrogate concentration

Red 12/17/12

12/17/12

EXP 4915 8330 CCV 0.250 mL EXP 4889 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 5.0 mL. Final conc. = 0.5/2.0 ug/mL. Prepared 12/18/2012. by Red. Expires 12/19/2012.

Red 12/18/12

EXP 4916 8330 MRL check Std. 0.050 mL EXP 4889 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H_2O to 5.0 mL Final conc. = 0.10/0.40 ug/mL. Prepared 12/18/12 by RED Expires 12/19/12

Red 12/18/12

Continued on Page

Read and Understood By

Signed Date Signed Date

Exp 5063 NQ Soil LCS

100 ~~250~~ 200 g clean soil matrix was spiked with 10 ~~25~~ 20 mL of MeOH containing ~~0.5~~ 0.2 mL S2587B @ 1000 µg/mL and ~~0.5~~ 0.2 mL S2796C @ 1000 µg/mL. The final soil concentration of both NQ and Surrogate is 2.00 mg/kg. Prepared 8/21/2013 by REB.
Expires 2/21/2014.

8/21/2013

Exp 5064 NQ Spike

0.100 mL S2587B @ 1000 µg/mL + 0.100 mL S2796B @ 1000 µg/mL into 1:1 MeOH:H_2O. Final volume = 10mL. Final Conc. = 10 µg/mL. Prepared 8/21/13 by REB.
Expires 2/21/14.

8/21/2013

Exp 5065 8330 Surrogate

0.500 mL ~~S2587~~ S2796B/C @ 1000 µg/mL into ACN to a final volume of 50mL. Final Conc. = 10 µg/mL. Prepared 8/21/13. Expires 2/21/14.

8/21/2013

Exp 5066 8330 Spike

0.250 mL S2797 @ 1000 µg/mL
0.250 mL S2588/S2798 @ 1000 µg/mL
0.250 mL S2796C @ 1000 µg/mL
1.00 mL S2795A/S2841A @ 1000 µg/mL
1.00 mL S2794A/2794B @ 1000 µg/mL
} into ACN; Final Volume = 25mL. Final Conc. = 10/40 µg/mL

Prepared 8/21/13 by REB. Expires 2/6/2014.

8/21/2013

Continued on Page

Read and Understood By

Signed Date Signed Date

Exp 5067 0.1% formic acid in H_2O
4mL 99% formic acid Lot 0481752 in 4L H_2O.
Prepared 8/22/13 by RED Expires 2/14/14.
8/22/13

Exp 5068 8330 CCV
0.500 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H_2O to 10mL. Final conc. = 0.5/2.0 µg/mL. Prepared 8/26/13 by RED.
Expires 8/27/13.
8/26/2013

Exp 5069 8330 MRL check std
0.100 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H_2O to 10mL. Final conc. = 0.10/0.40 µg/mL.
Prepared 8/27/13 by RED Expires 8/28/13.
Read 8/24/2013

Exp 5070 8330 MDL check std
0.050 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1%.
formic acid in H_2O to 10mL. Final conc. = 0.05/0.20 µg/mL
Prepared 8/27/13 by RED. Expires 8/28/13.
8/27/2013

Exp 5071 8330 CCV
0.500 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1%.
formic acid in H_2O to 10mL. Final conc. = 0.5/2.0 µg/mL
Prepared 8/27/13 by RED Expires 8/28/13.
8/27/13

Exp 5072 NQ CCV
0.500mL Exp 5064 @ 10 µg/mL in 1:1 MeOH:H_2O to 10mL.
Final conc. = 0.5 µg/mL. Prepared 8/27/13 by RED.
Expires 2/21/14. Read 8/27/2013

Continued on Page

Read and Understood By

Signed Date Signed Date

MDL Read 8/27/13

Exp 5073 NQ ~~MRL~~ Check Std.
0.040 mL Exp 5064 + 0.04 mL Exp 5065 into 1:1 MeOH:H2O to 10 mL. Final conc. = 0.04 µg/mL NQ and 0.08 µg/mL surr. Prepared 8/27/13 by Read. Expires 2/21/14.

Read 8/27/2013

Exp 5074 NQ MRL check Std
0.080 mL Exp 5064 @ 10 µg/mL + 0.080 mL Exp 5065 @ 10 µg/mL in 1:1 MeOH:H2O to 10 mL. Final Conc = 0.08 µg/mL NQ and 0.16 µg/mL surr. Prepared 8/27/13 by Read. Expires 2/21/14.

Read 8/27/2013

Exp 5075 8330 CCV
0.500 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid to 10 mL. Final conc. = 0.5/2.0 µg/mL. Prepared 8/30/13 by Read. Expires 8/31/13.

Read 8/30/13

Exp 5076 8330 CCV
0.250 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H2O to 5 mL. Final conc. = 0.5/2.0 µg/mL. Prepared 9/4/13 by Read. Expire 9/5/13.

Read 9/4/2013

Exp 5077 8330 CCV
0.250 mL Exp 5066 @ 10/40 µg/mL into 1:1 ACN:0.1% formic acid in H2O to 5 mL. Final conc. = 0.5/2.0 µg/mL. Prepared 9/5/13 by Read. Expires 9/6/13.

Read 9/5/2013

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

METALS
CLP FORMS
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	TCLP	SDG No.:	99335
% Solids:		Lab Sample ID:	339580
Analytical Method:	EPA 7470A	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	08/20/2013 07:00
Analytical Run #:	96919	Analysis Date/Time	08/21/2013 08:56
Analytical Prep Batch #:	45534	Prep. Date/Time:	08/20/2013 9:30
ICAL Calibration #:	08212013	Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.000060	U	0.00003	0.00006	0.00012	0.00012

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	TCLP	SDG No.:	99335
% Solids:		Lab Sample ID:	339580
Analytical Method:	EPA 6010C	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	08/20/2013 07:00
Analytical Run #:	97082	Analysis Date/Time	08/23/2013 18:11
Analytical Prep Batch #:	45554	Prep. Date/Time:	08/23/2013 08:00
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-38-2	Arsenic	0.010	J		0.0040	0.012	0.024	0.024
7440-39-3	Barium	0.19			0.00029	0.00090	0.0018	0.0018
7440-43-9	Cadmium	0.0010	U		0.00030	0.0010	0.0020	0.0020
7440-47-3	Chromium	0.019			0.00060	0.0020	0.0040	0.0040
7439-92-1	Lead	0.013			0.0014	0.0020	0.0040	0.0040
7782-49-2	Selenium	0.0028	J	B	0.0022	0.0065	0.013	0.013
7440-22-4	Silver	0.0018	J	B	0.00070	0.0020	0.0040	0.0040

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	TCLP	SDG No.:	99335
% Solids:		Lab Sample ID:	339578
Analytical Method:	EPA 7470A	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	08/20/2013 07:00
Analytical Run #:	96919	Analysis Date/Time	08/21/2013 08:50
Analytical Prep Batch #:	45534	Prep. Date/Time:	08/20/2013 9:30
ICAL Calibration #:	08212013	Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.000060	U	0.00003	0.00006	0.00012	0.00012

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	TCLP	SDG No.:	99335
% Solids:		Lab Sample ID:	339578
Analytical Method:	EPA 6010C	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	08/20/2013 07:00
Analytical Run #:	97082	Analysis Date/Time	08/23/2013 18:07
Analytical Prep Batch #:	45554	Prep. Date/Time:	08/23/2013 08:00
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-38-2	Arsenic	0.012	U		0.0040	0.012	0.024	0.024
7440-39-3	Barium	0.40			0.00029	0.00090	0.0018	0.0018
7440-43-9	Cadmium	0.00062	J		0.00030	0.0010	0.0020	0.0020
7440-47-3	Chromium	0.0012	J		0.00060	0.0020	0.0040	0.0040
7439-92-1	Lead	0.0022	J		0.0014	0.0020	0.0040	0.0040
7782-49-2	Selenium	0.017		B	0.0022	0.0065	0.013	0.013
7440-22-4	Silver	0.0014	J	B	0.00070	0.0020	0.0040	0.0040

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339561
Analytical Method:	EPA 6010C	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96854	Analysis Date/Time	08/20/2013 10:07
Analytical Prep Batch #:	45497	Prep. Date/Time:	08/16/2013 12:30
ICAL Calibration #:		Concentration Units:	ug/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Total Potassium	250	U	90	250	500	500
7440-23-5	Total Sodium	300	U	100	300	600	600

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339561
Analytical Method:	EPA 7470A	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96908	Analysis Date/Time	08/21/2013 10:58
Analytical Prep Batch #:	45527	Prep. Date/Time:	08/20/2013 9:30
ICAL Calibration #:	08212013	Concentration Units:	ug/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Total Mercury	0.060	U	0.030	0.060	0.12	0.12

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339561
Analytical Method:	EPA 6010C	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96853	Analysis Date/Time	08/21/2013 13:55
Analytical Prep Batch #:	45497	Prep. Date/Time:	08/16/2013 12:30
ICAL Calibration #:		Concentration Units:	ug/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Total Magnesium	20	U	6.0	20	40	40

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339561
Analytical Method:	EPA 6010C	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96853	Analysis Date/Time	08/19/2013 14:47
Analytical Prep Batch #:	45497	Prep. Date/Time:	08/16/2013 12:30
ICAL Calibration #:		Concentration Units:	ug/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Total Aluminum	18	U	6.0	18	36	36
7440-36-0	Total Antimony	6.0	U	2.0	6.0	12	12
7440-38-2	Total Arsenic	12	U	4.0	12	24	24
7440-39-3	Total Barium	0.90	U	0.29	0.90	1.8	1.8
7440-41-7	Total Beryllium	0.30	U	0.10	0.30	0.60	0.60
7440-43-9	Total Cadmium	1.0	U	0.30	1.0	2.0	2.0
7440-70-2	Total Calcium	50	U	17	50	100	100
7440-47-3	Total Chromium	2.0	U	0.60	2.0	4.0	4.0
7440-48-4	Total Cobalt	2.0	U	0.70	2.0	4.0	4.0
7440-50-8	Total Copper	3.5	U	1.2	3.5	7.0	7.0
7439-89-6	Total Iron	50	U	16	50	100	100
7439-92-1	Total Lead	2.0	U	1.4	2.0	4.0	4.0
7439-96-5	Total Manganese	2.0	U	0.70	2.0	4.0	4.0
7440-02-0	Total Nickel	3.0	U	1.0	3.0	6.0	6.0
7782-49-2	Total Selenium	6.5	U	2.2	6.5	13	13
7440-22-4	Total Silver	0.77	J	0.70	2.0	4.0	4.0
7440-28-0	Total Thallium	7.5	U	2.5	7.5	15	15
7440-62-2	Total Vanadium	2.5	U	0.80	2.5	5.0	5.0
7440-66-6	Total Zinc	5.0	U	1.6	5.0	10	10

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96919 Lab Sample ID: 341013

ICAL Calibration #: 08212013 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	8/21/13	08:29	0.00300	0.00307	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96908 Lab Sample ID: 341152

ICAL Calibration #: 08212013 Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	8/21/13	08:29	3.00	3.07	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340305

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/19/13	12:06	12000	12100	101	90	110
Antimony	8/19/13	12:06	500.0	524.0	105	90	110
Arsenic	8/19/13	12:06	2000	2090	104	90	110
Barium	8/19/13	12:06	2000	2090	104	90	110
Beryllium	8/19/13	12:06	50.00	49.20	98	90	110
Cadmium	8/19/13	12:06	50.00	51.70	103	90	110
Calcium	8/19/13	12:06	10000	10400	104	90	110
Chromium	8/19/13	12:06	200.0	211.0	106	90	110
Cobalt	8/19/13	12:06	500.0	519.0	104	90	110
Copper	8/19/13	12:06	250.0	261.0	104	90	110
Iron	8/19/13	12:06	5000	5010	100	90	110
Lead	8/19/13	12:06	500.0	510.0	102	90	110
Magnesium	8/19/13	12:06	10000	10500	105	90	110
Manganese	8/19/13	12:06	500.0	522.0	104	90	110
Nickel	8/19/13	12:06	500.0	520.0	104	90	110
Selenium	8/19/13	12:06	2000	2140	107	90	110
Silver	8/19/13	12:06	50.00	47.90	96	90	110
Thallium	8/19/13	12:06	2000	2060	103	90	110
Vanadium	8/19/13	12:06	500.0	531.0	106	90	110
Zinc	8/19/13	12:06	500.0	530.0	106	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340306

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/19/13	12:09	800.0	803.0	100	70	130
Antimony	8/19/13	12:09	40.00	36.60	92	70	130
Arsenic	8/19/13	12:09	40.00	42.30	106	70	130
Barium	8/19/13	12:09	20.00	20.50	102	70	130
Beryllium	8/19/13	12:09	8.00	8.50	106	70	130
Cadmium	8/19/13	12:09	10.00	9.86	99	70	130
Calcium	8/19/13	12:09	1000	975.0	98	70	130
Chromium	8/19/13	12:09	20.00	19.30	96	70	130
Cobalt	8/19/13	12:09	20.00	21.20	106	70	130
Copper	8/19/13	12:09	20.00	20.30	102	70	130
Iron	8/19/13	12:09	600.0	646.0	108	70	130
Lead	8/19/13	12:09	20.00	18.50	92	70	130
Magnesium	8/19/13	12:09	1000	990.0	99	70	130
Manganese	8/19/13	12:09	20.00	20.00	100	70	130
Nickel	8/19/13	12:09	20.00	21.20	106	70	130
Selenium	8/19/13	12:09	40.00	36.70	92	70	130
Thallium	8/19/13	12:09	40.00	44.90	112	70	130
Vanadium	8/19/13	12:09	20.00	21.10	106	70	130
Zinc	8/19/13	12:09	20.00	16.90	84	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 341309

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Potassium	8/20/13	09:48	100000	101000	101	90	110
Sodium	8/20/13	09:48	100000	101000	101	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 341603

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/21/13	13:17	12000	11800	98	90	110
Antimony	8/21/13	13:17	500.0	508.0	102	90	110
Arsenic	8/21/13	13:17	2000	2100	105	90	110
Barium	8/21/13	13:17	2000	2070	104	90	110
Beryllium	8/21/13	13:17	50.00	48.80	98	90	110
Cadmium	8/21/13	13:17	50.00	50.60	101	90	110
Calcium	8/21/13	13:17	10000	9980	100	90	110
Chromium	8/21/13	13:17	200.0	210.0	105	90	110
Cobalt	8/21/13	13:17	500.0	507.0	101	90	110
Copper	8/21/13	13:17	250.0	267.0	107	90	110
Iron	8/21/13	13:17	5000	4950	99	90	110
Lead	8/21/13	13:17	500.0	492.0	98	90	110
Magnesium	8/21/13	13:17	10000	10400	104	90	110
Manganese	8/21/13	13:17	500.0	510.0	102	90	110
Nickel	8/21/13	13:17	500.0	505.0	101	90	110
Selenium	8/21/13	13:17	2000	2150	108	90	110
Silver	8/21/13	13:17	50.00	48.80	98	90	110
Thallium	8/21/13	13:17	2000	2080	104	90	110
Vanadium	8/21/13	13:17	500.0	525.0	105	90	110
Zinc	8/21/13	13:17	500.0	517.0	103	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 341604

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/21/13	13:20	1200	1130	94	70	130
Antimony	8/21/13	13:20	60.00	58.10	97	70	130
Arsenic	8/21/13	13:20	60.00	62.50	104	70	130
Barium	8/21/13	13:20	30.00	32.10	107	70	130
Beryllium	8/21/13	13:20	12.00	12.70	106	70	130
Cadmium	8/21/13	13:20	15.00	15.70	105	70	130
Calcium	8/21/13	13:20	1500	1480	99	70	130
Chromium	8/21/13	13:20	30.00	29.80	99	70	130
Cobalt	8/21/13	13:20	30.00	31.00	103	70	130
Copper	8/21/13	13:20	30.00	31.60	105	70	130
Iron	8/21/13	13:20	900.0	922.0	102	70	130
Lead	8/21/13	13:20	30.00	28.60	95	70	130
Magnesium	8/21/13	13:20	1500	1470	98	70	130
Manganese	8/21/13	13:20	30.00	29.80	99	70	130
Nickel	8/21/13	13:20	30.00	31.60	105	70	130
Selenium	8/21/13	13:20	60.00	68.20	114	70	130
Silver	8/21/13	13:20	50.00	52.20	104	70	130
Thallium	8/21/13	13:20	60.00	60.00	100	70	130
Vanadium	8/21/13	13:20	30.00	31.10	104	70	130
Zinc	8/21/13	13:20	30.00	31.20	104	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346720

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	13:44	2.00	2.05	102	90	110
Barium	8/23/13	13:44	2.00	2.11	106	90	110
Cadmium	8/23/13	13:44	0.0500	0.0501	100	90	110
Chromium	8/23/13	13:44	0.200	0.206	103	90	110
Lead	8/23/13	13:44	0.500	0.487	97	90	110
Selenium	8/23/13	13:44	2.00	2.12	106	90	110
Silver	8/23/13	13:44	0.0500	0.0478	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346721

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	13:47	0.0600	0.0608	101	70	130
Barium	8/23/13	13:47	0.0300	0.0326	109	70	130
Cadmium	8/23/13	13:47	0.0150	0.0157	105	70	130
Chromium	8/23/13	13:47	0.0300	0.0305	102	70	130
Lead	8/23/13	13:47	0.0300	0.0297	99	70	130
Selenium	8/23/13	13:47	0.0600	0.0715	119	70	130
Silver	8/23/13	13:47	0.0500	0.0530	106	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96919 Lab Sample ID: 341015

ICAL Calibration #: 08212013 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	8/21/13	08:52	0.00300	0.00303	101	80	120

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96919 Lab Sample ID: 341019

ICAL Calibration #: 08212013 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	8/21/13	09:16	0.00300	0.00298	99	80	120

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346727

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	18:47	0.500	0.505	101	90	110
Barium	8/23/13	18:47	0.500	0.471	94	90	110
Cadmium	8/23/13	18:47	0.0500	0.0526	105	90	110
Chromium	8/23/13	18:47	0.500	0.515	103	90	110
Lead	8/23/13	18:47	0.500	0.508	102	90	110
Selenium	8/23/13	18:47	0.500	0.549	110	90	110
Silver	8/23/13	18:47	0.0500	0.0505	101	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346732

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	17:41	5.00	4.95	99	90	110
Barium	8/23/13	17:41	5.00	4.60	92	90	110
Cadmium	8/23/13	17:41	0.500	0.487	97	90	110
Lead	8/23/13	17:41	5.00	5.00	100	90	110
Selenium	8/23/13	17:41	5.00	5.09	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346733

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	17:44	0.500	0.509	102	90	110
Barium	8/23/13	17:44	0.500	0.493	99	90	110
Cadmium	8/23/13	17:44	0.0500	0.0527	105	90	110
Chromium	8/23/13	17:44	0.500	0.471	94	90	110
Lead	8/23/13	17:44	0.500	0.512	102	90	110
Selenium	8/23/13	17:44	0.500	0.547	109	90	110
Silver	8/23/13	17:44	0.0500	0.0513	103	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346736

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	18:25	5.00	5.02	100	90	110
Barium	8/23/13	18:25	5.00	4.72	94	90	110
Cadmium	8/23/13	18:25	0.500	0.497	99	90	110
Lead	8/23/13	18:25	5.00	5.11	102	90	110
Selenium	8/23/13	18:25	5.00	5.20	104	90	110
Silver	8/23/13	18:25	0.500	0.462	92	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346737

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	18:28	0.500	0.506	101	90	110
Barium	8/23/13	18:28	0.500	0.472	94	90	110
Cadmium	8/23/13	18:28	0.0500	0.0528	106	90	110
Chromium	8/23/13	18:28	0.500	0.456	91	90	110
Lead	8/23/13	18:28	0.500	0.510	102	90	110
Selenium	8/23/13	18:28	0.500	0.545	109	90	110
Silver	8/23/13	18:28	0.0500	0.0502	100	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346740

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	18:44	5.00	4.96	99	90	110
Barium	8/23/13	18:44	5.00	4.72	94	90	110
Cadmium	8/23/13	18:44	0.500	0.490	98	90	110
Chromium	8/23/13	18:44	5.00	4.49	90	90	110
Lead	8/23/13	18:44	5.00	5.01	100	90	110
Selenium	8/23/13	18:44	5.00	5.05	101	90	110
Silver	8/23/13	18:44	0.500	0.455	91	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340311

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/19/13	14:05	5000	5080	102	90	110
Antimony	8/19/13	14:05	5000	5290	106	90	110
Arsenic	8/19/13	14:05	5000	5280	106	90	110
Barium	8/19/13	14:05	5000	5130	103	90	110
Beryllium	8/19/13	14:05	500.0	531.0	106	90	110
Cadmium	8/19/13	14:05	500.0	543.0	109	90	110
Calcium	8/19/13	14:05	5000	5170	103	90	110
Chromium	8/19/13	14:05	5000	5100	102	90	110
Cobalt	8/19/13	14:05	5000	5040	101	90	110
Copper	8/19/13	14:05	5000	5200	104	90	110
Iron	8/19/13	14:05	5000	4790	96	90	110
Lead	8/19/13	14:05	5000	5350	107	90	110
Magnesium	8/19/13	14:05	5000	4980	100	90	110
Manganese	8/19/13	14:05	5000	5400	108	90	110
Nickel	8/19/13	14:05	5000	5300	106	90	110
Selenium	8/19/13	14:05	5000	5310	106	90	110
Silver	8/19/13	14:05	500.0	469.0	94	90	110
Thallium	8/19/13	14:05	5000	4930	99	90	110
Vanadium	8/19/13	14:05	5000	5080	102	90	110
Zinc	8/19/13	14:05	5000	5240	105	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340312

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	
Aluminum	8/19/13	14:08	500.0	511.0	102	90	110	
Antimony	8/19/13	14:08	500.0	541.0	108	90	110	
Arsenic	8/19/13	14:08	500.0	537.0	107	90	110	
Barium	8/19/13	14:08	500.0	517.0	103	90	110	
Beryllium	8/19/13	14:08	50.00	52.10	104	90	110	
Cadmium	8/19/13	14:08	50.00	53.70	107	90	110	
Calcium	8/19/13	14:08	500.0	553.0	111	90	110	FAIL
Chromium	8/19/13	14:08	500.0	525.0	105	90	110	
Cobalt	8/19/13	14:08	500.0	530.0	106	90	110	
Copper	8/19/13	14:08	500.0	529.0	106	90	110	
Iron	8/19/13	14:08	500.0	529.0	106	90	110	
Lead	8/19/13	14:08	500.0	529.0	106	90	110	
Magnesium	8/19/13	14:08	500.0	524.0	105	90	110	
Manganese	8/19/13	14:08	500.0	524.0	105	90	110	
Nickel	8/19/13	14:08	500.0	534.0	107	90	110	
Selenium	8/19/13	14:08	500.0	544.0	109	90	110	
Silver	8/19/13	14:08	50.00	51.10	102	90	110	
Thallium	8/19/13	14:08	500.0	543.0	109	90	110	
Vanadium	8/19/13	14:08	500.0	532.0	106	90	110	
Zinc	8/19/13	14:08	500.0	539.0	108	90	110	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340315

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/19/13	14:55	5000	5140	103	90	110
Antimony	8/19/13	14:55	5000	5300	106	90	110
Arsenic	8/19/13	14:55	5000	5310	106	90	110
Barium	8/19/13	14:55	5000	5140	103	90	110
Beryllium	8/19/13	14:55	500.0	533.0	107	90	110
Cadmium	8/19/13	14:55	500.0	545.0	109	90	110
Calcium	8/19/13	14:55	5000	5180	104	90	110
Chromium	8/19/13	14:55	5000	5100	102	90	110
Cobalt	8/19/13	14:55	5000	5080	102	90	110
Copper	8/19/13	14:55	5000	5270	105	90	110
Iron	8/19/13	14:55	5000	4800	96	90	110
Lead	8/19/13	14:55	5000	5350	107	90	110
Magnesium	8/19/13	14:55	5000	5020	100	90	110
Manganese	8/19/13	14:55	5000	5430	109	90	110
Nickel	8/19/13	14:55	5000	5300	106	90	110
Selenium	8/19/13	14:55	5000	5300	106	90	110
Silver	8/19/13	14:55	500.0	468.0	94	90	110
Thallium	8/19/13	14:55	5000	5070	101	90	110
Vanadium	8/19/13	14:55	5000	5170	103	90	110
Zinc	8/19/13	14:55	5000	5230	105	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340316

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/19/13	14:58	500.0	541.0	108	90	110
Antimony	8/19/13	14:58	500.0	545.0	109	90	110
Arsenic	8/19/13	14:58	500.0	541.0	108	90	110
Barium	8/19/13	14:58	500.0	518.0	104	90	110
Beryllium	8/19/13	14:58	50.00	53.30	107	90	110
Cadmium	8/19/13	14:58	50.00	54.00	108	90	110
Calcium	8/19/13	14:58	500.0	552.0	110	90	110
Chromium	8/19/13	14:58	500.0	525.0	105	90	110
Cobalt	8/19/13	14:58	500.0	530.0	106	90	110
Copper	8/19/13	14:58	500.0	530.0	106	90	110
Iron	8/19/13	14:58	500.0	546.0	109	90	110
Lead	8/19/13	14:58	500.0	526.0	105	90	110
Magnesium	8/19/13	14:58	500.0	536.0	107	90	110
Manganese	8/19/13	14:58	500.0	535.0	107	90	110
Nickel	8/19/13	14:58	500.0	538.0	108	90	110
Selenium	8/19/13	14:58	500.0	538.0	108	90	110
Silver	8/19/13	14:58	50.00	50.40	101	90	110
Thallium	8/19/13	14:58	500.0	548.0	110	90	110
Vanadium	8/19/13	14:58	500.0	532.0	106	90	110
Zinc	8/19/13	14:58	500.0	541.0	108	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340319

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/19/13	15:45	5000	5170	103	90	110
Antimony	8/19/13	15:45	5000	5270	105	90	110
Arsenic	8/19/13	15:45	5000	5280	106	90	110
Barium	8/19/13	15:45	5000	5080	102	90	110
Beryllium	8/19/13	15:45	500.0	529.0	106	90	110
Cadmium	8/19/13	15:45	500.0	543.0	109	90	110
Calcium	8/19/13	15:45	5000	5410	108	90	110
Chromium	8/19/13	15:45	5000	5150	103	90	110
Cobalt	8/19/13	15:45	5000	5050	101	90	110
Copper	8/19/13	15:45	5000	5360	107	90	110
Iron	8/19/13	15:45	5000	4860	97	90	110
Lead	8/19/13	15:45	5000	5310	106	90	110
Magnesium	8/19/13	15:45	5000	5020	100	90	110
Manganese	8/19/13	15:45	5000	5430	109	90	110
Nickel	8/19/13	15:45	5000	5330	107	90	110
Selenium	8/19/13	15:45	5000	5320	106	90	110
Silver	8/19/13	15:45	500.0	468.0	94	90	110
Thallium	8/19/13	15:45	5000	5110	102	90	110
Vanadium	8/19/13	15:45	5000	5200	104	90	110
Zinc	8/19/13	15:45	5000	5280	106	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340320

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	
Aluminum	8/19/13	15:48	500.0	526.0	105	90	110	
Antimony	8/19/13	15:48	500.0	536.0	107	90	110	
Arsenic	8/19/13	15:48	500.0	537.0	107	90	110	
Barium	8/19/13	15:48	500.0	498.0	100	90	110	
Beryllium	8/19/13	15:48	50.00	52.70	105	90	110	
Cadmium	8/19/13	15:48	50.00	53.00	106	90	110	
Calcium	8/19/13	15:48	500.0	530.0	106	90	110	
Chromium	8/19/13	15:48	500.0	519.0	104	90	110	
Cobalt	8/19/13	15:48	500.0	523.0	105	90	110	
Copper	8/19/13	15:48	500.0	524.0	105	90	110	
Iron	8/19/13	15:48	500.0	554.0	111	90	110	FAIL
Lead	8/19/13	15:48	500.0	516.0	103	90	110	
Magnesium	8/19/13	15:48	500.0	529.0	106	90	110	
Manganese	8/19/13	15:48	500.0	525.0	105	90	110	
Nickel	8/19/13	15:48	500.0	531.0	106	90	110	
Selenium	8/19/13	15:48	500.0	531.0	106	90	110	
Silver	8/19/13	15:48	50.00	50.30	101	90	110	
Thallium	8/19/13	15:48	500.0	539.0	108	90	110	
Vanadium	8/19/13	15:48	500.0	537.0	107	90	110	
Zinc	8/19/13	15:48	500.0	535.0	107	90	110	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96908 Lab Sample ID: 341164

ICAL Calibration #: 08212013 Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	8/21/13	10:50	3.00	2.95	98	80	120

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96908 Lab Sample ID: 341168

ICAL Calibration #: 08212013 Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	8/21/13	11:14	3.00	2.79	93	80	120

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 341315

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Potassium	8/20/13	10:04	100000	103000	103	90	110
Sodium	8/20/13	10:04	100000	102000	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 341416

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Potassium	8/20/13	10:16	100000	105000	105	90	110
Sodium	8/20/13	10:16	100000	103000	103	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 341609

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	
Aluminum	8/21/13	14:28	5000	4700	94	90	110	
Antimony	8/21/13	14:28	5000	4820	96	90	110	
Arsenic	8/21/13	14:28	5000	4810	96	90	110	
Barium	8/21/13	14:28	5000	5140	103	90	110	
Beryllium	8/21/13	14:28	500.0	493.0	99	90	110	
Cadmium	8/21/13	14:28	500.0	524.0	105	90	110	
Calcium	8/21/13	14:28	5000	4590	92	90	110	
Chromium	8/21/13	14:28	5000	4710	94	90	110	
Cobalt	8/21/13	14:28	5000	4590	92	90	110	
Copper	8/21/13	14:28	5000	5000	100	90	110	
Iron	8/21/13	14:28	5000	4690	94	90	110	
Lead	8/21/13	14:28	5000	4870	97	90	110	
Magnesium	8/21/13	14:28	5000	4720	94	90	110	
Manganese	8/21/13	14:28	5000	5030	101	90	110	
Nickel	8/21/13	14:28	5000	4640	93	90	110	
Selenium	8/21/13	14:28	5000	4940	99	90	110	
Silver	8/21/13	14:28	500.0	452.0	90	90	110	
Thallium	8/21/13	14:28	5000	4610	92	90	110	
Vanadium	8/21/13	14:28	5000	4640	93	90	110	
Zinc	8/21/13	14:28	5000	4450	89	90	110	FAIL

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 341610

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/21/13	14:31	500.0	492.0	98	90	110
Antimony	8/21/13	14:31	500.0	489.0	98	90	110
Arsenic	8/21/13	14:31	500.0	485.0	97	90	110
Barium	8/21/13	14:31	500.0	523.0	105	90	110
Beryllium	8/21/13	14:31	50.00	51.10	102	90	110
Cadmium	8/21/13	14:31	50.00	48.40	97	90	110
Calcium	8/21/13	14:31	500.0	500.0	100	90	110
Chromium	8/21/13	14:31	500.0	474.0	95	90	110
Cobalt	8/21/13	14:31	500.0	478.0	96	90	110
Copper	8/21/13	14:31	500.0	511.0	102	90	110
Iron	8/21/13	14:31	500.0	502.0	100	90	110
Lead	8/21/13	14:31	500.0	471.0	94	90	110
Magnesium	8/21/13	14:31	500.0	497.0	99	90	110
Manganese	8/21/13	14:31	500.0	492.0	98	90	110
Nickel	8/21/13	14:31	500.0	477.0	95	90	110
Selenium	8/21/13	14:31	500.0	514.0	103	90	110
Silver	8/21/13	14:31	50.00	49.90	100	90	110
Thallium	8/21/13	14:31	500.0	491.0	98	90	110
Vanadium	8/21/13	14:31	500.0	490.0	98	90	110
Zinc	8/21/13	14:31	500.0	456.0	91	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340308

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/19/13	12:21	400.0	375.0	94	70	130
Antimony	8/19/13	12:21	20.00	20.60	103	70	130
Arsenic	8/19/13	12:21	20.00	20.10	100	70	130
Barium	8/19/13	12:21	10.00	9.32	93	70	130
Beryllium	8/19/13	12:21	4.00	4.47	112	70	130
Cadmium	8/19/13	12:21	5.00	4.41	88	70	130
Calcium	8/19/13	12:21	500.0	520.0	104	70	130
Chromium	8/19/13	12:21	10.00	9.11	91	70	130
Cobalt	8/19/13	12:21	10.00	10.80	108	70	130
Copper	8/19/13	12:21	10.00	10.60	106	70	130
Iron	8/19/13	12:21	300.0	309.0	103	70	130
Lead	8/19/13	12:21	10.00	8.11	81	70	130
Magnesium	8/19/13	12:21	500.0	517.0	103	70	130
Manganese	8/19/13	12:21	10.00	11.20	112	70	130
Nickel	8/19/13	12:21	10.00	11.20	112	70	130
Selenium	8/19/13	12:21	20.00	23.90	120	70	130
Silver	8/19/13	12:21	20.00	18.70	94	70	130
Thallium	8/19/13	12:21	20.00	21.40	107	70	130
Vanadium	8/19/13	12:21	10.00	10.60	106	70	130
Zinc	8/19/13	12:21	10.00	6.96	70	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 341312

ICAL Calibration #: Concentration Units:

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Potassium	8/20/13	09:51	1000	1120	112	80	120
Sodium	8/20/13	09:51	1000	1100	110	80	120

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 341606

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Aluminum	8/21/13	13:32	400.0	418.0	104	70	130
Antimony	8/21/13	13:32	20.00	21.30	106	70	130
Arsenic	8/21/13	13:32	20.00	21.50	108	70	130
Barium	8/21/13	13:32	10.00	8.97	90	70	130
Beryllium	8/21/13	13:32	4.00	4.38	110	70	130
Cadmium	8/21/13	13:32	5.00	4.56	91	70	130
Calcium	8/21/13	13:32	500.0	483.0	97	70	130
Chromium	8/21/13	13:32	10.00	8.84	88	70	130
Cobalt	8/21/13	13:32	10.00	10.40	104	70	130
Copper	8/21/13	13:32	10.00	10.40	104	70	130
Iron	8/21/13	13:32	300.0	292.0	97	70	130
Lead	8/21/13	13:32	10.00	8.37	84	70	130
Magnesium	8/21/13	13:32	500.0	486.0	97	70	130
Manganese	8/21/13	13:32	10.00	9.71	97	70	130
Nickel	8/21/13	13:32	10.00	10.90	109	70	130
Selenium	8/21/13	13:32	20.00	21.80	109	70	130
Silver	8/21/13	13:32	20.00	18.70	94	70	130
Thallium	8/21/13	13:32	20.00	18.80	94	70	130
Vanadium	8/21/13	13:32	10.00	10.40	104	70	130
Zinc	8/21/13	13:32	10.00	11.50	115	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346723

ICAL Calibration #: Concentration Units:

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	8/23/13	13:57	0.0200	0.0197	98	70	130
Barium	8/23/13	13:57	0.0100	0.00875	88	70	130
Cadmium	8/23/13	13:57	0.00500	0.00495	99	70	130
Chromium	8/23/13	13:57	0.0100	0.00934	93	70	130
Lead	8/23/13	13:57	0.0100	0.00949	95	70	130
Selenium	8/23/13	13:57	0.0200	0.0231	116	70	130
Silver	8/23/13	13:57	0.0200	0.0182	91	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

3-1

INITIAL CALIBRATION BLANKS

ICB

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340307

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Aluminum	08/19/2013 12:17	2.53			18
Antimony	08/19/2013 12:17	-0.813			6.0
Arsenic	08/19/2013 12:17	-2.88			12
Barium	08/19/2013 12:17	-1.20			0.90
Beryllium	08/19/2013 12:17	0.0390			0.30
Cadmium	08/19/2013 12:17	-1.26			1.0
Calcium	08/19/2013 12:17	-9.12			50
Chromium	08/19/2013 12:17	-1.42			2.0
Cobalt	08/19/2013 12:17	0.122			2.0
Copper	08/19/2013 12:17	0.150			3.5
Iron	08/19/2013 12:17	15.40			50
Lead	08/19/2013 12:17	-1.22			2.0
Magnesium	08/19/2013 12:17	10.30			20
Manganese	08/19/2013 12:17	-0.269			2.0
Nickel	08/19/2013 12:17	0.299			3.0
Selenium	08/19/2013 12:17	-9.48			6.5
Silver	08/19/2013 12:17	0.521			2.0
Thallium	08/19/2013 12:17	-0.0570			7.5
Vanadium	08/19/2013 12:17	-0.138			2.5
Zinc	08/19/2013 12:17	-4.28			4.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 341311

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Potassium	08/20/2013 09:50	18.00			250
Sodium	08/20/2013 09:50	30.00			300

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 341605

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Aluminum	08/21/2013 13:28	-2.02			18
Antimony	08/21/2013 13:28	2.84			6.0
Arsenic	08/21/2013 13:28	0.403			12
Barium	08/21/2013 13:28	-1.46			0.90
Beryllium	08/21/2013 13:28	0.244			0.30
Cadmium	08/21/2013 13:28	-0.670			1.0
Calcium	08/21/2013 13:28	-7.21			50
Chromium	08/21/2013 13:28	-1.60			2.0
Cobalt	08/21/2013 13:28	-0.0840			2.0
Copper	08/21/2013 13:28	-0.247			3.5
Iron	08/21/2013 13:28	10.40			50
Lead	08/21/2013 13:28	-0.988			2.0
Magnesium	08/21/2013 13:28	4.15			20
Manganese	08/21/2013 13:28	-0.657			2.0
Nickel	08/21/2013 13:28	0.138			3.0
Selenium	08/21/2013 13:28	-0.229			6.5
Silver	08/21/2013 13:28	1.06			2.0
Thallium	08/21/2013 13:28	0.721			7.5
Vanadium	08/21/2013 13:28	0.0120			2.5
Zinc	08/21/2013 13:28	0.0440			4.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346722

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	08/23/2013 13:53	0.000038			0.012
Barium	08/23/2013 13:53	-0.00170			0.00090
Cadmium	08/23/2013 13:53	-0.000391			0.0010
Chromium	08/23/2013 13:53	-0.00755			0.0020
Lead	08/23/2013 13:53	-0.000245			0.0020
Selenium	08/23/2013 13:53	0.000642			0.0065
Silver	08/23/2013 13:53	0.000754			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96919 Lab Sample ID: 341014

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 08212013 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	08/21/2013 08:31	0			0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96908 Lab Sample ID: 341153

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 08212013 Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	08/21/2013 08:31	0			0.06

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340313

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Aluminum	08/19/2013 14:12	-0.355			18
Antimony	08/19/2013 14:12	-0.521			6.0
Arsenic	08/19/2013 14:12	-0.540			12
Barium	08/19/2013 14:12	-0.410			0.90
Beryllium	08/19/2013 14:12	0.164			0.30
Cadmium	08/19/2013 14:12	-1.22			1.0
Calcium	08/19/2013 14:12	-10.8			50
Chromium	08/19/2013 14:12	0.0180			2.0
Cobalt	08/19/2013 14:12	0.287			2.0
Copper	08/19/2013 14:12	0.855			3.5
Iron	08/19/2013 14:12	4.33			50
Lead	08/19/2013 14:12	-1.91			2.0
Magnesium	08/19/2013 14:12	7.93			20
Manganese	08/19/2013 14:12	0.383			2.0
Nickel	08/19/2013 14:12	0.431			3.0
Selenium	08/19/2013 14:12	-7.93			6.5
Silver	08/19/2013 14:12	0.805			2.0
Thallium	08/19/2013 14:12	3.50			7.5
Vanadium	08/19/2013 14:12	0.391			2.5
Zinc	08/19/2013 14:12	-4.94			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340317

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Aluminum	08/19/2013 15:01	0.457			18
Antimony	08/19/2013 15:01	-0.731			6.0
Arsenic	08/19/2013 15:01	-0.406			12
Barium	08/19/2013 15:01	-0.260			0.90
Beryllium	08/19/2013 15:01	0.171			0.30
Cadmium	08/19/2013 15:01	-1.12			1.0
Calcium	08/19/2013 15:01	-10.8			50
Chromium	08/19/2013 15:01	-0.533			2.0
Cobalt	08/19/2013 15:01	0.329			2.0
Copper	08/19/2013 15:01	0.0400			3.5
Iron	08/19/2013 15:01	4.53			50
Lead	08/19/2013 15:01	-1.63			2.0
Magnesium	08/19/2013 15:01	8.04			20
Manganese	08/19/2013 15:01	0.552			2.0
Nickel	08/19/2013 15:01	0.635			3.0
Selenium	08/19/2013 15:01	-9.03			6.5
Silver	08/19/2013 15:01	0.426			2.0
Thallium	08/19/2013 15:01	2.12			7.5
Vanadium	08/19/2013 15:01	0.665			2.5
Zinc	08/19/2013 15:01	-5.19			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 340321

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Aluminum	08/19/2013 15:52	-0.114			18
Antimony	08/19/2013 15:52	-0.747			6.0
Arsenic	08/19/2013 15:52	-0.211			12
Barium	08/19/2013 15:52	-0.435			0.90
Beryllium	08/19/2013 15:52	0.116			0.30
Cadmium	08/19/2013 15:52	-1.08			1.0
Calcium	08/19/2013 15:52	-10.6			50
Chromium	08/19/2013 15:52	0.0390			2.0
Cobalt	08/19/2013 15:52	0.351			2.0
Copper	08/19/2013 15:52	0.496			3.5
Iron	08/19/2013 15:52	14.50			50
Lead	08/19/2013 15:52	-2.18			2.0
Magnesium	08/19/2013 15:52	8.03			20
Manganese	08/19/2013 15:52	0.384			2.0
Nickel	08/19/2013 15:52	0.340			3.0
Selenium	08/19/2013 15:52	-6.01			6.5
Silver	08/19/2013 15:52	0.535			2.0
Thallium	08/19/2013 15:52	3.07			7.5
Vanadium	08/19/2013 15:52	0.779			2.5
Zinc	08/19/2013 15:52	-5.18			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 341316

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Potassium	08/20/2013 10:05	22.00			250
Sodium	08/20/2013 10:05	30.00			300

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 341417

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Potassium	08/20/2013 10:17	22.00			250
Sodium	08/20/2013 10:17	44.00			300

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 341611

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Aluminum	08/21/2013 14:35	-3.84			18
Antimony	08/21/2013 14:35	2.53			6.0
Arsenic	08/21/2013 14:35	0.0410			12
Barium	08/21/2013 14:35	-0.592			0.90
Beryllium	08/21/2013 14:35	0.0770			0.30
Cadmium	08/21/2013 14:35	-0.728			1.0
Calcium	08/21/2013 14:35	-7.57			50
Chromium	08/21/2013 14:35	-0.0510			2.0
Cobalt	08/21/2013 14:35	0.148			2.0
Copper	08/21/2013 14:35	0.217			3.5
Iron	08/21/2013 14:35	5.83			50
Lead	08/21/2013 14:35	-1.60			2.0
Magnesium	08/21/2013 14:35	3.34			20
Manganese	08/21/2013 14:35	-0.536			2.0
Nickel	08/21/2013 14:35	0.219			3.0
Selenium	08/21/2013 14:35	3.01			6.5
Silver	08/21/2013 14:35	1.69			2.0
Thallium	08/21/2013 14:35	0.762			7.5
Vanadium	08/21/2013 14:35	0.0680			2.5
Zinc	08/21/2013 14:35	0.0100			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346728

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	08/23/2013 18:50	0.000302			0.012
Barium	08/23/2013 18:50	0.000108			0.00090
Cadmium	08/23/2013 18:50	0			0.0010
Chromium	08/23/2013 18:50	0.000870			0.0020
Lead	08/23/2013 18:50	0			0.0020
Selenium	08/23/2013 18:50	0.00619			0.0065
Silver	08/23/2013 18:50	0.00127			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346734

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	08/23/2013 17:47	0.00104			0.012
Barium	08/23/2013 17:47	-0.000417			0.00090
Cadmium	08/23/2013 17:47	-0.000380			0.0010
Chromium	08/23/2013 17:47	-0.00424			0.0020
Lead	08/23/2013 17:47	-0.000774			0.0020
Selenium	08/23/2013 17:47	0.00291			0.0065
Silver	08/23/2013 17:47	0.00112			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 346738

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	08/23/2013 18:31	0.00199			0.012
Barium	08/23/2013 18:31	-0.000246			0.00090
Cadmium	08/23/2013 18:31	-0.000349			0.0010
Chromium	08/23/2013 18:31	-0.00318			0.0020
Lead	08/23/2013 18:31	0.000069			0.0020
Selenium	08/23/2013 18:31	0.00537			0.0065
Silver	08/23/2013 18:31	0.00121			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96919 Lab Sample ID: 341016

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 08212013 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	08/21/2013 08:54	0			0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96919 Lab Sample ID: 341020

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 08212013 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	08/21/2013 09:18	0			0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96908 Lab Sample ID: 341165

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 08212013 Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	08/21/2013 10:52	0			0.06

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96908 Lab Sample ID: 341169

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 08212013 Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	08/21/2013 11:16	0			0.06

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 339612

Analytical Prep Batch # 45497 Preparation Date/Time: 08/16/2013 12:30

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Total Magnesium	08/21/2013 13:51	5.92	U	6	20

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96853 Lab Sample ID: 339612

Analytical Prep Batch # 45497 Preparation Date/Time: 08/16/2013 12:30

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	
Total Aluminum	08/19/2013 14:43	2.04	U	6	18	
Total Antimony	08/19/2013 14:43	-0.807	U	2.0	6.0	
Total Arsenic	08/19/2013 14:43	0.258	U	4	12	
Total Barium	08/19/2013 14:43	-0.718	U	0.29	0.90	
Total Beryllium	08/19/2013 14:43	0.0370	U	0.10	0.30	
Total Cadmium	08/19/2013 14:43	-1.20	U	0.3	1.0	
Total Calcium	08/19/2013 14:43	109.0		17	50	FAIL
Total Chromium	08/19/2013 14:43	-1.57	U	0.6	2.0	
Total Cobalt	08/19/2013 14:43	0.177	U	0.7	2.0	
Total Copper	08/19/2013 14:43	0.246	U	1.2	3.5	
Total Iron	08/19/2013 14:43	77.20		16	50	FAIL
Total Lead	08/19/2013 14:43	-2.28	U	1.4	2.0	
Total Manganese	08/19/2013 14:43	1.82		0.7	2.0	FAIL
Total Nickel	08/19/2013 14:43	0.430	U	1.0	3.0	
Total Selenium	08/19/2013 14:43	-9.56	U	2.2	6.5	
Total Silver	08/19/2013 14:43	0.574	U	0.7	2.0	
Total Thallium	08/19/2013 14:43	2.66		2.5	7.5	FAIL
Total Vanadium	08/19/2013 14:43	0.220	U	0.8	2.5	
Total Zinc	08/19/2013 14:43	-1.48	U	1.6	5.0	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 339612

Analytical Prep Batch # 45497 Preparation Date/Time: 08/16/2013 12:30

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Total Potassium	08/20/2013 10:06	0	U	90	250
Total Sodium	08/20/2013 10:06	12.00	U	100	300

** Detection Limit only reported if value was less than the control limit.

***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96854 Lab Sample ID: 339612

Analytical Prep Batch # 45497 Preparation Date/Time: 08/16/2013 12:30

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Total Potassium	08/20/2013 10:06	0	U	90	250
Total Sodium	08/20/2013 10:06	12.00	U	100	300

** Detection Limit only reported if value was less than the control limit.

***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97082 Lab Sample ID: 340797

Analytical Prep Batch # 45554 Preparation Date/Time: 08/23/2013 08:00

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	
Arsenic	08/23/2013 18:04	-0.000878	U	0.004	0.012	
Barium	08/23/2013 18:04	0.000514		0.00029	0.00090	FAIL
Cadmium	08/23/2013 18:04	-0.000443	U	0.0003	0.0010	
Chromium	08/23/2013 18:04	-0.00533	U	0.0006	0.0020	
Lead	08/23/2013 18:04	-0.00166	U	0.0014	0.0020	
Selenium	08/23/2013 18:04	0.00564		0.0022	0.0065	FAIL
Silver	08/23/2013 18:04	0.00138		0.0007	0.0020	FAIL

** Detection Limit only reported if value was less than the control limit.

***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96908 Lab Sample ID: 339930

Analytical Prep Batch # 45527 Preparation Date/Time: 08/20/2013 9:30

ICAL Calibration #: 08212013 Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Total Mercury	08/21/2013 10:56	0	U	0.03	0.06

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96919 Lab Sample ID: 340121

Analytical Prep Batch # 45534 Preparation Date/Time: 08/20/2013 9:30

ICAL Calibration #: 08212013 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	08/21/2013 08:48	0	U	0.00003	0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX

Analytical Run #: 96853
Lab Sample ID: 340309
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/19/2013 12:24	500000	492000	98	80	120
Antimony	08/19/2013 12:24	0	0		-6.0	6.0
Arsenic	08/19/2013 12:24	0	-0.00600		-12	12
Barium	08/19/2013 12:24	0	0		-0.90	0.90
Beryllium	08/19/2013 12:24	0	0		-0.30	0.30
Cadmium	08/19/2013 12:24	0	0		-1.0	1.0
Calcium	08/19/2013 12:24	500000	458000	92	80	120
Chromium	08/19/2013 12:24	0	0		-2.0	2.0
Cobalt	08/19/2013 12:24	0	-0.0120		-2.0	2.0
Copper	08/19/2013 12:24	0	0		-3.5	3.5
Iron	08/19/2013 12:24	500000	465000	93	80	120
Lead	08/19/2013 12:24	0	0		-2.0	2.0
Magnesium	08/19/2013 12:24	500000	484000	97	80	120
Manganese	08/19/2013 12:24	0	-0.188		-2.0	2.0
Nickel	08/19/2013 12:24	0	0.00100		-3.0	3.0
Selenium	08/19/2013 12:24	0	0.0290		-6.5	6.5
Silver	08/19/2013 12:24	0	0		-2.0	2.0
Thallium	08/19/2013 12:24	0	0		-7.5	7.5
Vanadium	08/19/2013 12:24	0	0.0560		-2.5	2.5
Zinc	08/19/2013 12:24	0	-0.00100		-5.0	5.0

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX

Analytical Run #: 96854
Lab Sample ID: 341313
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/20/2013 09:52	500000	490000	98	80	120
Calcium	08/20/2013 09:52	500000	577000	115	80	120
Iron	08/20/2013 09:52	500000	496000	99	80	120
Magnesium	08/20/2013 09:52	500000	498000	100	80	120
Potassium	08/20/2013 09:52	0	0		-250	250
Sodium	08/20/2013 09:52	0	0		-300	300

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX

Analytical Run #: 96853
Lab Sample ID: 341607
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/21/2013 13:36	500000	472000	94	80	120
Antimony	08/21/2013 13:36	0	0		-6.0	6.0
Arsenic	08/21/2013 13:36	0	0.0140		-12	12
Barium	08/21/2013 13:36	0	0		-0.90	0.90
Beryllium	08/21/2013 13:36	0	0		-0.30	0.30
Cadmium	08/21/2013 13:36	0	0.00600		-1.0	1.0
Calcium	08/21/2013 13:36	500000	435000	87	80	120
Chromium	08/21/2013 13:36	0	0		-2.0	2.0
Cobalt	08/21/2013 13:36	0	0.0310		-2.0	2.0
Copper	08/21/2013 13:36	0	0.0180		-3.5	3.5
Iron	08/21/2013 13:36	500000	451000	90	80	120
Lead	08/21/2013 13:36	0	0		-2.0	2.0
Magnesium	08/21/2013 13:36	500000	489000	98	80	120
Manganese	08/21/2013 13:36	0	0		-2.0	2.0
Nickel	08/21/2013 13:36	0	0		-3.0	3.0
Selenium	08/21/2013 13:36	0	0.0330		-6.5	6.5
Silver	08/21/2013 13:36	0	0		-2.0	2.0
Thallium	08/21/2013 13:36	0	0		-7.5	7.5
Vanadium	08/21/2013 13:36	0	0		-2.5	2.5
Zinc	08/21/2013 13:36	0	-0.00100		-5.0	5.0

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX

Analytical Run #: 97082
Lab Sample ID: 346724
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/23/2013 14:00	500.0	490.0	98	80	120
Arsenic	08/23/2013 14:00	0	-0.0000020		-1	0.012
Barium	08/23/2013 14:00	0	0		-1	0.00090
Cadmium	08/23/2013 14:00	0	0		-1	0.0010
Calcium	08/23/2013 14:00	500.0	447.0	89	80	120
Chromium	08/23/2013 14:00	0	-0.000275		-1	0.0020
Iron	08/23/2013 14:00	500.0	478.0	96	80	120
Lead	08/23/2013 14:00	0	0		-1	0.0020
Magnesium	08/23/2013 14:00	500.0	482.0	96	80	120
Selenium	08/23/2013 14:00	0	-0.0000020		-1	0.0065
Silver	08/23/2013 14:00	0	0		-1	0.0020

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX, Ultra

Analytical Run #: 96853
Lab Sample ID: 340310
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/19/2013 12:28	500000	489000	98	80	120
Antimony	08/19/2013 12:28	500.0	456.0	91	80	120
Arsenic	08/19/2013 12:28	500.0	484.0	97	80	120
Barium	08/19/2013 12:28	500.0	529.0	106	80	120
Beryllium	08/19/2013 12:28	500.0	541.0	108	80	120
Cadmium	08/19/2013 12:28	500.0	452.0	90	80	120
Calcium	08/19/2013 12:28	500000	457000	91	80	120
Chromium	08/19/2013 12:28	500.0	479.0	96	80	120
Cobalt	08/19/2013 12:28	500.0	496.0	99	80	120
Copper	08/19/2013 12:28	500.0	525.0	105	80	120
Iron	08/19/2013 12:28	500000	467000	93	80	120
Lead	08/19/2013 12:28	500.0	413.0	83	80	120
Magnesium	08/19/2013 12:28	500000	474000	95	80	120
Manganese	08/19/2013 12:28	500.0	455.0	91	80	120
Nickel	08/19/2013 12:28	500.0	484.0	97	80	120
Selenium	08/19/2013 12:28	500.0	415.0	83	80	120
Silver	08/19/2013 12:28	500.0	435.0	87	80	120
Thallium	08/19/2013 12:28	500.0	500.0	100	80	120
Vanadium	08/19/2013 12:28	500.0	562.0	112	80	120
Zinc	08/19/2013 12:28	500.0	427.0	85	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX, Ultra

Analytical Run #: 96854
Lab Sample ID: 341314
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/20/2013 09:53	500000	490000	98	80	120
Calcium	08/20/2013 09:53	500000	577000	115	80	120
Iron	08/20/2013 09:53	500000	575000	115	80	120
Magnesium	08/20/2013 09:53	500000	487000	97	80	120
Potassium	08/20/2013 09:53	100000	98700	99	80	120
Sodium	08/20/2013 09:53	100000	91900	92	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX, Ultra

Analytical Run #: 96853
Lab Sample ID: 341608
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/21/2013 13:40	500000	452000	90	80	120
Antimony	08/21/2013 13:40	500.0	477.0	95	80	120
Arsenic	08/21/2013 13:40	500.0	492.0	98	80	120
Barium	08/21/2013 13:40	500.0	532.0	106	80	120
Beryllium	08/21/2013 13:40	500.0	448.0	90	80	120
Cadmium	08/21/2013 13:40	500.0	465.0	93	80	120
Calcium	08/21/2013 13:40	500000	420000	84	80	120
Chromium	08/21/2013 13:40	500.0	489.0	98	80	120
Cobalt	08/21/2013 13:40	500.0	501.0	100	80	120
Copper	08/21/2013 13:40	500.0	521.0	104	80	120
Iron	08/21/2013 13:40	500000	435000	87	80	120
Lead	08/21/2013 13:40	500.0	487.0	97	80	120
Magnesium	08/21/2013 13:40	500000	473000	95	80	120
Manganese	08/21/2013 13:40	500.0	419.0	84	80	120
Nickel	08/21/2013 13:40	500.0	485.0	97	80	120
Selenium	08/21/2013 13:40	500.0	407.0	81	80	120
Silver	08/21/2013 13:40	500.0	462.0	92	80	120
Thallium	08/21/2013 13:40	500.0	578.0	116	80	120
Vanadium	08/21/2013 13:40	500.0	535.0	107	80	120
Zinc	08/21/2013 13:40	500.0	429.0	86	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: ECC-RVAAP
ICP ID Number: TJA 6000
SDG No.: 99335
ICS Source: SPEX, Ultra

Analytical Run #: 97082
Lab Sample ID: 346725
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	08/23/2013 14:03	500.0	475.0	95	80	120
Arsenic	08/23/2013 14:03	0.500	0.451	90	80	120
Barium	08/23/2013 14:03	0.500	0.521	104	80	120
Cadmium	08/23/2013 14:03	0.500	0.431	86	80	120
Calcium	08/23/2013 14:03	500.0	439.0	88	80	120
Chromium	08/23/2013 14:03	0.500	0.475	95	80	120
Iron	08/23/2013 14:03	500.0	468.0	94	80	120
Lead	08/23/2013 14:03	0.500	0.439	88	80	120
Magnesium	08/23/2013 14:03	500.0	469.0	94	80	120
Selenium	08/23/2013 14:03	0.500	0.434	87	80	120
Silver	08/23/2013 14:03	0.500	0.426	85	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	339615	Parent Sample No.:	339561
Analytical Prep Batch #	45497	Analytical Preparation Date/Time:	08/16/2013 12:30
Analytical Run #:	96853	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/19/2013 Analysis Time: -------- 15:09

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Aluminum	80-120	854		BDL	U	800	107		P
Total Antimony	80-120	210		BDL	U	200	105		P
Total Arsenic	80-120	884		BDL	U	800	110		P
Total Barium	80-120	849		BDL	U	800	106		P
Total Beryllium	80-120	21.6		BDL	U	20.0	108		P
Total Cadmium	80-120	18.4		BDL	U	20.0	92		P
Total Calcium	80-120	193000		BDL	U	200000	96		P
Total Chromium	80-120	79.9		BDL	U	80.0	100		P
Total Cobalt	80-120	192		BDL	U	200	96		P
Total Copper	80-120	97.7		BDL	U	100	98		P
Total Iron	80-120	437		BDL	U	400	109		P
Total Lead	80-120	176		BDL	U	200	88		P
Total Magnesium	80-120	94200		8.8	J	100000	94		P
Total Manganese	80-120	222		BDL	U	200	111		P
Total Nickel	80-120	193		BDL	U	200	96		P
Total Selenium	80-120	841		BDL	U	800	105		P
Total Silver	80-120	19.9		0.77	J	20.0	96		P
Total Thallium	80-120	696		BDL	U	800	87		P
Total Vanadium	80-120	215		BDL	U	200	108		P
Total Zinc	80-120	209		BDL	U	200	104		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	339615	Parent Sample No.:	339561
Analytical Prep Batch #	45497	Analytical Preparation Date/Time:	08/16/2013 12:30
Analytical Run #:	96854	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/20/2013 Analysis Time: -------- 10:10

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Potassium	80-120	113000		BDL	U	100000	113		P
Total Sodium	80-120	102000		BDL	U	100000	102		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	mg/L
Sample No	340800	Parent Sample No.:	339580
Analytical Prep Batch #	45554	Analytical Preparation Date/Time:	08/23/2013 08:00
Analytical Run #:	97082	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/23/2013 Analysis Time: -------- 18:22

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Arsenic	80-120	0.870		0.010	J	0.800	108		P
Barium	80-120	1.02		0.19		0.800	104		P
Cadmium	80-120	0.0190		BDL	U	0.0200	95		P
Chromium	80-120	0.0980		0.019		0.0800	99		P
Lead	80-120	0.181		BDL	U	0.200	90		P
Selenium	80-120	0.840		0.0028	J	0.800	105		P
Silver	80-120	0.0210		0.0018	J	0.0200	96		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	339933	Parent Sample No.:	339561
Analytical Prep Batch #	45527	Analytical Preparation Date/Time:	08/20/2013 9:30
Analytical Run #:	96908	ICAL Calibration #:	08212013

Analysis Type *Initial Analysis* Analysis Date: ----- 08/21/2013 Analysis Time: -------- 11:04

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Mercury	80-120	1.9		BDL	U	2.0	95		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	mg/L
Sample No	340124	Parent Sample No.:	339580
Analytical Prep Batch #	45534	Analytical Preparation Date/Time:	08/20/2013 9:30
Analytical Run #:	96919	ICAL Calibration #:	08212013

Analysis Type *Initial Analysis* Analysis Date: ----- 08/21/2013 Analysis Time: -------- 09:02

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	0.00200		BDL	U	0.00200	100		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **083SB-0023-0001-ER**

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	340318	Parent Sample No.:	339561
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	
Analytical Run #:	96853	ICAL Calibration #:	

Analysis Type: *Initial Analysis* Analysis Date: ----- 08/19/2013 Analysis Time: -------- 15:17

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Aluminum	75-125	4720		BDL	U	4000	118		P
Antimony	75-125	1050		BDL	U	1000	105		P
Arsenic	75-125	4290		BDL	U	4000	107		P
Barium	75-125	4390		BDL	U	4000	110		P
Beryllium	75-125	122		BDL	U	100	122		P
Cadmium	75-125	92.8		BDL	U	100	93		P
Calcium	75-125	433000		BDL	U	400000	108		P
Chromium	75-125	426		BDL	U	400	106		P
Cobalt	75-125	1110		BDL	U	1000	111		P
Copper	75-125	579		BDL	U	500	116		P
Iron	75-125	2150		BDL	U	2000	108		P
Lead	75-125	845		BDL	U	1000	84		P
Magnesium	75-125	218000				200000	109		P
Manganese	75-125	891		BDL	U	1000	89		P
Nickel	75-125	922		BDL	U	1000	92		P
Selenium	75-125	4150		BDL	U	4000	104		P
Silver	75-125	96.9		0.77	J	100	96		P
Thallium	75-125	4970		BDL	U	4000	124		P
Vanadium	75-125	1160		BDL	U	1000	116		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	341318	Parent Sample No.:	339561
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	
Analytical Run #:	96854	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/20/2013 Analysis Time: -------- 10:12

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	75-125	103000		BDL	U	100000	103		P
Sodium	75-125	102000		BDL	U	100000	102		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	mg/L
Sample No	346739	Parent Sample No.:	339580
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	
Analytical Run #:	97082	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	08/23/2013	Analysis Time: --------	18:38

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Arsenic	75-125	4.20		0.010	J	4	105		P
Barium	75-125	4.10		0.19		4	98		P
Cadmium	75-125	0.114		BDL	U	0.1	114		P
Chromium	75-125	0.389		0.019		0.4	92		P
Lead	75-125	0.826		BDL	U	1	83		P
Selenium	75-125	4.20		0.0028	J	4	105		P
Silver	75-125	0.0945		0.0018	J	0.1	93		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solids for Sample:
Concentration Units: mg/L
Sample No 341018
Parent Sample No.: 339580
Analytical Prep Batch # 0
Analytical Preparation Date/Time:
Analytical Run #: 96919
ICAL Calibration #: 08212013

Analysis Type *Initial Analysis* Analysis Date: ----- 08/21/2013 Analysis Time: -------- 09:06

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	0.00201		BDL	U	0.002	100		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **083SB-0023-0001-ER**

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solids for Sample:
Concentration Units: ug/L
Sample No: 341167
Parent Sample No.: 339561
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 96908
ICAL Calibration #: 08212013

Analysis Type: *Initial Analysis* Analysis Date: ----- 08/21/2013 Analysis Time: -------- 11:08

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	2.0		BDL	U	2	100		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description: **083SB-0023-0001-ER**

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	339616	Parent Sample No.:	339615
Analytical Prep Batch #	45497	Analytical Preparation Date/Time:	08/16/2013 12:30
Analytical Run #:	96853	ICAL Calibration #:	

Analysis Type: *Initial Analysis* Analysis Date: ----- 08/19/2013 Analysis Time: -------- 15:13

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Aluminum	80-120	792		BDL	U	800	99		P
Total Antimony	80-120	214		BDL	U	200	107		P
Total Arsenic	80-120	897		BDL	U	800	112		P
Total Barium	80-120	861		BDL	U	800	108		P
Total Beryllium	80-120	21.9		BDL	U	20.0	110		P
Total Cadmium	80-120	18.8		BDL	U	20.0	94		P
Total Calcium	80-120	193000		BDL	U	200000	96		P
Total Chromium	80-120	79.9		BDL	U	80.0	100		P
Total Cobalt	80-120	195		BDL	U	200	98		P
Total Copper	80-120	99.0		BDL	U	100	99		P
Total Iron	80-120	435		BDL	U	400	109		P
Total Lead	80-120	178		BDL	U	200	89		P
Total Magnesium	80-120	95400		8.8	J	100000	95		P
Total Manganese	80-120	223		BDL	U	200	112		P
Total Nickel	80-120	196		BDL	U	200	98		P
Total Selenium	80-120	843		BDL	U	800	105		P
Total Silver	80-120	19.9		0.77	J	20.0	96		P
Total Thallium	80-120	710		BDL	U	800	89		P
Total Vanadium	80-120	215		BDL	U	200	108		P
Total Zinc	80-120	212		BDL	U	200	106		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	339616	Parent Sample No.:	339615
Analytical Prep Batch #	45497	Analytical Preparation Date/Time:	08/16/2013 12:30
Analytical Run #:	96854	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/20/2013 Analysis Time: -------- 10:11

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Potassium	80-120	112000		BDL	U	100000	112		P
Total Sodium	80-120	103000		BDL	U	100000	103		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	mg/L
Sample No	340801	Parent Sample No.:	340800
Analytical Prep Batch #	45554	Analytical Preparation Date/Time:	08/23/2013 08:00
Analytical Run #:	97082	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/23/2013 Analysis Time: -------- 18:34

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Arsenic	80-120	0.866		0.010	J	0.800	107		P
Barium	80-120	0.984		0.19		0.800	99		P
Cadmium	80-120	0.0190		BDL	U	0.0200	95		P
Chromium	80-120	0.0928		0.019		0.0800	92		P
Lead	80-120	0.181		BDL	U	0.200	90		P
Selenium	80-120	0.857		0.0028	J	0.800	107		P
Silver	80-120	0.0201		0.0018	J	0.0200	92		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	ug/L
Sample No	339934	Parent Sample No.:	339933
Analytical Prep Batch #	45527	Analytical Preparation Date/Time:	08/20/2013 9:30
Analytical Run #:	96908	ICAL Calibration #:	08212013

Analysis Type	*Initial Analysis*	Analysis Date: -----	08/21/2013	Analysis Time: --------	11:06

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Mercury	80-120	2.0		BDL	U	2.0	100		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	mg/L
Sample No	340125	Parent Sample No.:	340124
Analytical Prep Batch #	45534	Analytical Preparation Date/Time:	08/20/2013 9:30
Analytical Run #:	96919	ICAL Calibration #:	08212013

Analysis Type *Initial Analysis* Analysis Date: ----- 08/21/2013 Analysis Time: -------- 09:04

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	0.00203		BDL	U	0.00200	102		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Matrix: LIQUID | SDG No.: 99335

% Solid for Sample: | Concentration Units: ug/L

Analytical Prep Batch #: 1 | Analytical Preparation Date/Time: 45497

Analytical Run #: 96853 | ICAL Calibration #:

Sample #: 339614 | Parent Sample #: 339561

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Total Aluminum	08/19/2013	15:05	20	6.0	U	6.0	U	0		P
Total Antimony	08/19/2013	15:05	20	2.0	U	2.0	U	0		P
Total Arsenic	08/19/2013	15:05	20	4.0	U	4.0	U	0		P
Total Barium	08/19/2013	15:05	20	0.29	U	0.29	U	0		P
Total Beryllium	08/19/2013	15:05	20	0.10	U	0.10	U	0		P
Total Cadmium	08/19/2013	15:05	20	0.30	U	0.30	U	0		P
Total Calcium	08/19/2013	15:05	20	17	U	17	U	0		P
Total Chromium	08/19/2013	15:05	20	0.60	U	0.60	U	0		P
Total Cobalt	08/19/2013	15:05	20	0.70	U	0.70	U	0		P
Total Copper	08/19/2013	15:05	20	1.2	U	1.2	U	0		P
Total Iron	08/19/2013	15:05	20	16	U	16	U	0		P
Total Lead	08/19/2013	15:05	20	1.4	U	1.4	U	0		P
Total Manganese	08/19/2013	15:05	20	0.70	U	0.70	U	0		P
Total Nickel	08/19/2013	15:05	20	1.0	U	1.0	U	0		P
Total Selenium	08/19/2013	15:05	20	2.2	U	2.2	U	0		P
Total Silver	08/19/2013	15:05	20	0.77	J	0.70	J	10		P
Total Thallium	08/19/2013	15:05	20	2.5	U	2.5	U	0		P
Total Vanadium	08/19/2013	15:05	20	0.80	U	0.80	U	0		P
Total Zinc	08/19/2013	15:05	20	1.6	U	1.6	U	0		P

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: ug/L
Analytical Prep Batch # 2
Analytical Preparation Date/Time 45497
Analytical Run #: 96853
ICAL Calibration #:
Sample #: 339614
Parent Sample #: 339561

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Total Magnesium	08/21/2013	14:03	20	6.0	U	6.0	U	0		P

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: ug/L
Analytical Prep Batch # 1
Analytical Preparation Date/Time 45497
Analytical Run #: 96854
ICAL Calibration #:
Sample #: 339614
Parent Sample #: 339561

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Total Potassium	08/20/2013	10:09	20	90	U	90	U	0		P
Total Sodium	08/20/2013	10:09	20	100	U	100	U	0		P

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch #: 1
Analytical Preparation Date/Time: 45554
Analytical Run #: 97082
ICAL Calibration #:
Sample #: 340799
Parent Sample #: 339580

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Arsenic	08/23/2013	18:18	20	0.010	J	0.0108	J	8		P	
Barium	08/23/2013	18:18	20	0.19		0.183		4		P	
Cadmium	08/23/2013	18:18	20	0.00030	U	0.00030	U	0		P	
Chromium	08/23/2013	18:18	20	0.019		0.0170		11		P	
Lead	08/23/2013	18:18	20	0.013		0.0125		200		P	*FAIL*
Selenium	08/23/2013	18:18	20	0.0028	J	0.0022	U	200		P	*FAIL*
Silver	08/23/2013	18:18	20	0.0018	J	0.00104	J	54		P	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: ug/L
Analytical Prep Batch # 1
Analytical Preparation Date/Time 45527
Analytical Run #: 96908
ICAL Calibration #: 08212013
Sample #: 339932
Parent Sample #: 339561

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Total Mercury	08/21/2013	11:02	20	0.030	U	0.030	U	0		CV

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch # 1
Analytical Preparation Date/Time 45534
Analytical Run #: 96919
ICAL Calibration #: 08212013
Sample #: 340123
Parent Sample #: 339580

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Mercury	08/21/2013	09:00	20	0.000030	U	0.000030	U	0		CV

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description: **083SB-0023-0001-ER**

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Matrix: LIQUID | SDG No.: 99335

% Solid for Sample: | Concentration Units: ug/L

Analytical Prep Batch #: 45497 | Analytical Preparation Date/Time: 08/16/2013 12:30

Analytical Run #: 96853 | ICAL Calibration #:

Sample #: 339616 | Parent Sample #: 339615

Analysis Type: *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Total Aluminum	08/19/2013	15:13	20	854		792		8		P
Total Antimony	08/19/2013	15:13	20	210		214		2		P
Total Arsenic	08/19/2013	15:13	20	884		897		1		P
Total Barium	08/19/2013	15:13	20	849		861		1		P
Total Beryllium	08/19/2013	15:13	20	21.6		21.9		1		P
Total Cadmium	08/19/2013	15:13	20	18.4		18.8		2		P
Total Calcium	08/19/2013	15:13	20	193000		193000		0		P
Total Chromium	08/19/2013	15:13	20	79.9		79.9		0		P
Total Cobalt	08/19/2013	15:13	20	192		195		2		P
Total Copper	08/19/2013	15:13	20	97.7		99.0		1		P
Total Iron	08/19/2013	15:13	20	437		435		0		P
Total Lead	08/19/2013	15:13	20	176		178		1		P
Total Magnesium	08/19/2013	15:13	20	94200		95400		1		P
Total Manganese	08/19/2013	15:13	20	222		223		0		P
Total Nickel	08/19/2013	15:13	20	193		196		2		P
Total Selenium	08/19/2013	15:13	20	841		843		0		P
Total Silver	08/19/2013	15:13	20	19.9		19.9		0		P
Total Thallium	08/19/2013	15:13	20	696		710		2		P
Total Vanadium	08/19/2013	15:13	20	215		215		0		P
Total Zinc	08/19/2013	15:13	20	209		212		1		P

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Matrix: LIQUID | SDG No.: 99335

% Solid for Sample: | Concentration Units: ug/L

Analytical Prep Batch #: 45497 | Analytical Preparation Date/Time: 08/16/2013 12:30

Analytical Run #: 96854 | ICAL Calibration #:

Sample #: 339616 | Parent Sample #: 339615

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Total Potassium	08/20/2013	10:11	20	113000		112000		1		P
Total Sodium	08/20/2013	10:11	20	102000		103000		1		P

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description: **083SB-0021-0001-IDW**

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Matrix: LIQUID | SDG No.: 99335

% Solid for Sample: | Concentration Units: mg/L

Analytical Prep Batch #: 45554 | Analytical Preparation Date/Time: 08/23/2013 08:00

Analytical Run #: 97082 | ICAL Calibration #:

Sample #: 340801 | Parent Sample #: 340800

Analysis Type: *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Arsenic	08/23/2013	18:34	20	0.870		0.866		0		P
Barium	08/23/2013	18:34	20	1.02		0.984		4		P
Cadmium	08/23/2013	18:34	20	0.0190		0.0190		0		P
Chromium	08/23/2013	18:34	20	0.0980		0.0928		5		P
Lead	08/23/2013	18:34	20	0.181		0.181		0		P
Selenium	08/23/2013	18:34	20	0.840		0.857		2		P
Silver	08/23/2013	18:34	20	0.0210		0.0201		4		P

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Matrix: LIQUID | SDG No.: 99335

% Solid for Sample: | Concentration Units: ug/L

Analytical Prep Batch #: 45527 | Analytical Preparation Date/Time: 08/20/2013 9:30

Analytical Run #: 96908 | ICAL Calibration #: 08212013

Sample #: 339934 | Parent Sample #: 339933

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim	RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Total Mercury	08/21/2013 11:06	20	1.9		2.0		6		CV

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Matrix: LIQUID | SDG No.: 99335

% Solid for Sample: | Concentration Units: mg/L

Analytical Prep Batch #: 45534 | Analytical Preparation Date/Time: 08/20/2013 9:30

Analytical Run #: 96919 | ICAL Calibration #: 08212013

Sample #: 340125 | Parent Sample #: 340124

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Mercury	08/21/2013	09:04	20	0.00200		0.00203		1		CV

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: ug/L

Analytical Run #: 96853 Sample No.:#: 339613

Analytical Prep Batch #: 45497 Preparation Date/Time: 08/16/2013 12:30

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Total Aluminum	08/19/2013 14:39	80-120	771.0		800.0	96		P
Total Antimony	08/19/2013 14:39	80-120	214.0		200.0	107		P
Total Arsenic	08/19/2013 14:39	80-120	891.0		800.0	111		P
Total Barium	08/19/2013 14:39	80-120	891.0		800.0	111		P
Total Beryllium	08/19/2013 14:39	80-120	22.40		20.00	112		P
Total Cadmium	08/19/2013 14:39	80-120	18.50		20.00	92		P
Total Calcium	08/19/2013 14:39	80-120	198000		200000	99		P
Total Chromium	08/19/2013 14:39	80-120	79.70		80.00	100		P
Total Cobalt	08/19/2013 14:39	80-120	193.0		200.0	96		P
Total Copper	08/19/2013 14:39	80-120	98.00		100.0	98		P
Total Iron	08/19/2013 14:39	80-120	446.0		400.0	112		P
Total Lead	08/19/2013 14:39	80-120	177.0		200.0	88		P
Total Magnesium	08/19/2013 14:39	80-120	95500		100000	96		P
Total Manganese	08/19/2013 14:39	80-120	229.0		200.0	114		P
Total Nickel	08/19/2013 14:39	80-120	194.0		200.0	97		P
Total Selenium	08/19/2013 14:39	80-120	856.0		800.0	107		P
Total Silver	08/19/2013 14:39	80-120	19.70		20.00	98		P
Total Thallium	08/19/2013 14:39	80-120	704.0		800.0	88		P
Total Vanadium	08/19/2013 14:39	80-120	216.0		200.0	108		P
Total Zinc	08/19/2013 14:39	80-120	210.0		200.0	105		P

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: ug/L

Analytical Run #: 96854 Sample No.:#: 339613

Analytical Prep Batch #: 45497 Preparation Date/Time: 08/16/2013 12:30

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Total Potassium	08/20/2013 10:03	80-120	111000		100000	111		P
Total Sodium	08/20/2013 10:03	80-120	101000		100000	101		P

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/L

Analytical Run #: 97082 Sample No.:#: 340798

Analytical Prep Batch #: 45554 Preparation Date/Time: 08/23/2013 08:00

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Arsenic	08/23/2013 18:01	80-120	0.895		0.800	112		P
Barium	08/23/2013 18:01	80-120	0.845		0.800	106		P
Cadmium	08/23/2013 18:01	80-120	0.0219		0.0200	110		P
Chromium	08/23/2013 18:01	80-120	0.0748		0.0800	94		P
Lead	08/23/2013 18:01	80-120	0.222		0.200	111		P
Selenium	08/23/2013 18:01	80-120	0.897		0.800	112		P
Silver	08/23/2013 18:01	80-120	0.0222		0.0200	111		P

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: ug/L

Analytical Run #: 96908 Sample No.:#: 339931

Analytical Prep Batch #: 45527 Preparation Date/Time: 08/20/2013 9:30

ICAL Calibration #: 08212013

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Total Mercury	08/21/2013 10:54	80-120	2.76		3.00	92		CV

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/L

Analytical Run #: 96919 Sample No.:#: 340122

Analytical Prep Batch #: 45534 Preparation Date/Time: 08/20/2013 9:30

ICAL Calibration #: 08212013

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Mercury	08/21/2013 08:46	80-120	0.00316		0.00300	105		CV

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract

LCS Source: SPEX and Ultra SDG No.:

Concentration Units:

CT LABORATORIES
delivering more than data from your environmental analyses

9

ICP SERIAL DILUTION

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: LIQUID SDG No.: 99335

Concentration Units: ug/L

Sample No.: 340314 Parent Sample No.: 339561

LIMS Run #: 96853 ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Aluminum	08/19/2013	14:51	BDL	U	30	U	0		P	*INVALID*
Antimony	08/19/2013	14:51	BDL	U	10	U	0		P	*INVALID*
Arsenic	08/19/2013	14:51	BDL	U	20	U	0		P	*INVALID*
Barium	08/19/2013	14:51	BDL	U	1.45	U	0		P	*INVALID*
Beryllium	08/19/2013	14:51	BDL	U	0.5	U	0		P	*INVALID*
Cadmium	08/19/2013	14:51	BDL	U	1.5	U	0		P	*INVALID*
Calcium	08/19/2013	14:51	BDL	U	85	U	0		P	*INVALID*
Chromium	08/19/2013	14:51	BDL	U	3	U	0		P	*INVALID*
Cobalt	08/19/2013	14:51	BDL	U	3.5	U	0		P	*INVALID*
Copper	08/19/2013	14:51	BDL	U	6	U	0		P	*INVALID*
Iron	08/19/2013	14:51	BDL	U	80	U	0		P	*INVALID*
Lead	08/19/2013	14:51	BDL	U	7	U	0		P	*INVALID*
Manganese	08/19/2013	14:51	BDL	U	3.5	U	0		P	*INVALID*
Nickel	08/19/2013	14:51	BDL	U	5	U	0		P	*INVALID*
Selenium	08/19/2013	14:51	BDL	U	11	U	0		P	*INVALID*
Silver	08/19/2013	14:51	.766	U	3.5	U	100		P	*INVALID*
Thallium	08/19/2013	14:51	BDL	U	12.5	U	0		P	*INVALID*
Vanadium	08/19/2013	14:51	BDL	U	4	U	0		P	*INVALID*
Zinc	08/19/2013	14:51	BDL	U	8	U	0		P	*INVALID*

CT LABORATORIES
delivering more than data from your environmental analyses

9

ICP SERIAL DILUTION

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: LIQUID SDG No.: 99335

Concentration Units: ug/L

Sample No.: 340314 Parent Sample No.: 339561

LIMS Run #: 96853 ICAL Calibration #:.:

ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Magnesium	08/21/2013 13:59	BDL	U	30	U	0		P	*INVALID*

CT LABORATORIES
delivering more than data from your environmental analyses

9

ICP SERIAL DILUTION

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: LIQUID SDG No.: 99335

Concentration Units: ug/L

Sample No.: 341317 Parent Sample No.: 339561

LIMS Run #: 96854 ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Potassium	08/20/2013	10:08	BDL	U	450	U	0		P	*INVALID*
Sodium	08/20/2013	10:08	BDL	U	500	U	0		P	*INVALID*

CT LABORATORIES
delivering more than data from your environmental analyses

9

ICP SERIAL DILUTION

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: LIQUID SDG No.: 99335

Concentration Units: ug/L

Sample No.: 346735 Parent Sample No.: 339580

LIMS Run #: 97082 ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Arsenic	08/23/2013	18:15	10.2		20.35		100		P	*INVALID*
Barium	08/23/2013	18:15	187.		202		8		P	
Cadmium	08/23/2013	18:15	BDL	U	0.0015	U	0		P	*INVALID*
Chromium	08/23/2013	18:15	19.4		0.003	U	100		P	*INVALID*
Lead	08/23/2013	18:15	BDL	U	8.5		0		P	*INVALID*
Selenium	08/23/2013	18:15	2.83		0.011	U	100		P	*INVALID*
Silver	08/23/2013	18:15	1.84		3.29		79		P	*INVALID*

CT LABORATORIES
delivering more than data from your environmental analyses

9

CVAA SERIAL DILUTION

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: LIQUID SDG No.: 99335

Concentration Units: mg/L

Sample No.: 341017 Parent Sample No.: 339580

LIMS Run #: 96919 ICAL Calibration #:.: 08212013

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Mercury	08/21/2013 08:58	BDL	U	0.00015	U	0		CV	*INVALID*

CT LABORATORIES
delivering more than data from your environmental analyses

9

CVAA SERIAL DILUTION

Sample Description

083SB-0023-0001-ER

Lab Name: CT Laboratories Contract: ECC-RVAAP

Matrix: LIQUID SDG No.: 99335

Concentration Units: ug/L

Sample No.: 341166 Parent Sample No.: 339561

LIMS Run #: 96908 ICAL Calibration #:.: 08212013

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Mercury	08/21/2013 11:00	BDL	U	0.15	U	0		CV	*INVALID*

CT LABORATORIES
delivering more than data from your environmental analyses

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TJA SDG No.: 99335

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/L)	M
Arsenic	193.7			0.004	P
Barium	455.4			0.00029	P
Cadmium	226.502			0.0003	P
Chromium	267.716			0.0006	P
Lead	220.35			0.0014	P
Selenium	196.02			0.0022	P
Silver	328.068			0.0007	P

CT LABORATORIES
delivering more than data from your environmental analyses

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TJA SDG No.: 99335

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (ug/L)	M
Total Aluminum	167.0			6	P
Total Antimony	217.5			2.0	P
Total Arsenic	193.7			4	P
Total Barium	455.4			0.29	P
Total Beryllium	313.041			0.10	P
Total Cadmium	226.502			0.3	P
Total Calcium	393.3			17	P
Total Chromium	267.716			0.6	P
Total Cobalt	228.616			0.7	P
Total Copper	327.3			1.2	P
Total Iron	259.9			16	P
Total Lead	220.35			1.4	P
Total Magnesium	279.5			6	P
Total Manganese	257.61			0.7	P
Total Nickel	231.604			1.0	P
Total Potassium	766.491			90	P
Total Selenium	196.02			2.2	P
Total Silver	328.068			0.7	P
Total Sodium	589.5			100	P
Total Thallium	190.864			2.5	P
Total Vanadium	292.402			0.8	P
Total Zinc	213.856			1.6	P

CT LABORATORIES
delivering more than data from your environmental analyses

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/L)	M
Mercury	253.7			0.00003	CV

CT LABORATORIES
delivering more than data from your environmental analyses

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (ug/L)	M
Total Mercury	253.7			0.03	CV

CT LABORATORIES
delivering more than data from your environmental analyses

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 99335

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/1	167.079			0.000627 / 0.000627	
Aluminum/2	309.271				
Aluminum/3	396.152				
Antimony/1	206.833			0.000036 / 0.000021	0.069000* / 0.06900*
Antimony/2	217.581			-0.000166/-0.000166	0.050000* / 0.05000*
Arsenic/1	189.042			0.000240 / 0.000240	
Arsenic/2	193.759			0.001207 / 0.001692	
Barium/1	455.403			0.000002 / 0.000003	
Barium/2	493.409			0.000230 / 0.000130	
Beryllium/1	234.861			-0.000120 / 0.000080	
Beryllium/2	313.042			0.000000 / 0.000000	
Cadmium/1	226.502			0.000079 / 0.000130	
Cadmium/2	228.802			0.000000 / 0.000000	
Calcium/1	317.933				
Calcium/2	393.366				
Calcium/3	396.847				
Chromium/1	283.563			0.001012/ 0.000511	
Chromium/2	267.716			0.000005 / 0.000001	
Cobalt/1	228.616			0.000001 / 0.000002	-0.20 Cu / -0.20 Cu
Cobalt/2	238.892			-0.000680/-0.000087	
Copper/1	224.700			0.000028 / 0.000042	
Copper/2	324.754			-0.000025/-0.000025	
Copper/3	327.396			-0.000038/-0.00038	
Iron/1	234.349				
Iron/2	239.562				

CT LABORATORIES
delivering more than data from your environmental analyses

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 99335

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Iron/3	259.940				
Lead/1	216.999	0.001232 / 0.000632		------- / 0.002113	
Lead/2	220.353	0.0090 Co / 0.010 Co	0.0080 V / 0.010 V	-0.000063/-0.000009	0.000000 / 0.000000
Magnesium/1	279.079				
Magnesium/2	279.553				
Magnesium/3	280.270				
Manganese/1	257.610	0.000003 /-0.00072			
Manganese/2	259.373				0.002328*/0.001928*
Molybdenum/1	202.030			-0.000014/-0.000010	
Molybdenum/2	204.598			0.000026 / 0.000026	
Molybdenum/3	203.844				
Nickel/1	221.647		0.000015 / 0.000015		
Nickel/2	231.604			-0.000005 / 0.000038	-0.20 Co / -0.20 Co
Selenium/1	196.090			-0.000386 /-0.000370	
Selenium/2	206.279			0.000638 / 0.000638	
Silver/1	328.068			-0.000227/-0.000281	
Silver/2	338.289		0.000514/ 0.000514		
Thallium/1	190.856			-0.000007 / 0.000001	0.0080 Ti /0.0080 Ti
Thallium/2	276.787			0.000000 / 0.00000	0.030232*/0.030232*
Tin (1 [ ] line)	189.989				
Tin (2 [ ] line)	189.989				
Tungsten/3	209.475				
Tungsten/4	257.144				
Vanadium/1	292.402			0.000005 /-0.000009	
Vanadium/2	292.882			0.000171 / 0.000171	

CT LABORATORIES
delivering more than data from your environmental analyses

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 99335

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Zinc/1	206.200			0.000051 / 0.000051	
Zinc/2	213.856			0.000167 / 0.000151	

CT LABORATORIES
delivering more than data from your environmental analyses

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 99335

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	***Ca***	***Fe***	***Si (*Mg)***
Aluminum/4	308.215				
Calcium/1	317.933				
Iron/1	234.349				
Magnesium/4	285.213				
Potassium	766.490			0.000009/-0.001691	
Sodium/1	330.237			-0.000390/ 0.000326	
Sodium/2	589.592			-0.000197/-0.000471	

CT LABORATORIES
delivering more than data from your environmental analyses

11C

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 99335

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/2	309.271				
Calcium/1	317.933				
Iron/3	259.940				
Lithium	670.784	0.001600 / 0.000317			
Magnesium/1	279.079				
Strontium/1	407.771		0.000010 / 0.000062		
Strontium/2	421.552		0.000010 / 0.000013		
Tin	189.989	0.000007 / 0.000031	0.000000 / 0.000013		
Titanium/1	334.941		0.000204 / 0.000204		
Titanium/2	337.280		0.000016 / 0.000083		
Tungsten/1	224.875		-------- / 0.000030	0.000273 / 0.001309	
Tungsten/2	239.709		0.000099 / 0.000047		

ICP LINEAR RANGES (QUARTERLY)

Lab Name: CT Laboratories Contract: ECC-RVAAP

ICP ID Number: TJA SDG No.: 99335

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	1000000	P
Antimony	15.00	10000	P
Arsenic	15.00	10000	P
Barium	15.00	10000	P
Beryllium	15.00	1000	P
Boron	15.00	1000	P
Cadmium	15.00	1000	P
Calcium	15.00	1000000	P
Chromium	15.00	100000	P
Cobalt	15.00	10000	P
Copper	15.00	100000	P
Iron	15.00	1000000	P
Lead	15.00	100000	P
Lithium	15.00	10000	P
Magnesium	15.00	1000000	P
Manganese	15.00	100000	P
Molybdenum	15.00	10000	P
Nickel	15.00	10000	P
Potassium	15.00	200000	P
Selenium	15.00	10000	P
Silicon	15.00	1000	P
Silver	15.00	100	P
Sodium	15.00	200000	P
Strontium	15.00	10000	P
Thallium	15.00	10000	P
Tin	15.00	10000	P
Titanium	15.00	1000	P
Tungsten	15.00	10000	P
Vanadium	15.00	10000	P
Zinc	15.00	100000	P

CT LABORATORIES
delivering more than data from your environmental analyses

13

PREPARATION LOG

Lab Name: CT Laboratories Project: ECC-RVAAP

Method: EPA 3010A SDG No.: 99335

Preparation Batch #: 45497 Preparation Date/Time: 08/16/2013 / 12:30

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
339561	Normal Sample	083SB-0023-0001-ER	GROUND WATER	50.0
339612	Method Blank		LIQUID	50.0
339613	Lab Control Spike		LIQUID	50.0
339614	Lab Duplicate	083SB-0023-0001-ER	GROUND WATER	50.0
339615	Matrix Spike	083SB-0023-0001-ER	GROUND WATER	50.0
339616	Matrix Spike Duplicate	083SB-0023-0001-ER	GROUND WATER	50.0

CT LABORATORIES
delivering more than data from your environmental analyses

13

PREPARATION LOG

Lab Name: CT Laboratories Project: ECC-RVAAP

Method: EPA 7470A SDG No.: 99335

Preparation Batch #: 45527 Preparation Date/Time: 08/20/2013 / 9:30

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
339561	Normal Sample	083SB-0023-0001-ER	GROUND WATER	25.0
339930	Method Blank		LIQUID	25.0
339931	Lab Control Spike		LIQUID	25.0
339932	Lab Duplicate	083SB-0023-0001-ER	GROUND WATER	25.0
339933	Matrix Spike	083SB-0023-0001-ER	GROUND WATER	25.0
339934	Matrix Spike Duplicate	083SB-0023-0001-ER	GROUND WATER	25.0

CT LABORATORIES
delivering more than data from your environmental analyses

13

PREPARATION LOG

Lab Name: CT Laboratories Project: ECC-RVAAP

Method: EPA 7470A SDG No.: 99335

Preparation Batch #: 45534 Preparation Date/Time: 08/20/2013 / 9:30

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
339578	Normal Sample	083SB-0022-0001-IDW	TCLP	25.0
339580	Normal Sample	083SB-0021-0001-IDW	TCLP	25.0
340121	Method Blank		LIQUID	25.0
340122	Lab Control Spike		LIQUID	25.0
340123	Lab Duplicate	083SB-0021-0001-IDW	TCLP	25.0
340124	Matrix Spike	083SB-0021-0001-IDW	TCLP	25.0
340125	Matrix Spike Duplicate	083SB-0021-0001-IDW	TCLP	25.0

CT LABORATORIES
delivering more than data from your environmental analyses

13

PREPARATION LOG

Lab Name: CT Laboratories Project: ECC-RVAAP

Method: EPA 3010A SDG No.: 99335

Preparation Batch #: 45554 Preparation Date/Time: 08/23/2013 / 08:00

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
339578	Normal Sample	083SB-0022-0001-IDW	TCLP	50.0
339580	Normal Sample	083SB-0021-0001-IDW	TCLP	50.0
340797	Method Blank		LIQUID	50.0
340798	Lab Control Spike		LIQUID	50.0
340799	Lab Duplicate	083SB-0021-0001-IDW	TCLP	50.0
340800	Matrix Spike	083SB-0021-0001-IDW	TCLP	50.0
340801	Matrix Spike Duplicate	083SB-0021-0001-IDW	TCLP	50.0

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Lab Code: CTL | SDG No.: 99335

Instrument ID Number: TJA | Method Number: P

Start & End Date: 08/19/2013 to 08/21/2013 | Analytical Run #: 96853

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
340305	ICV	1.00	8/19 12:06	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340306	ICV	1.00	8/19 12:09	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X					X			X	X
340307	ICB	1.00	8/19 12:17	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340308	MRL	1.00	8/19 12:21	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340309	ICSA	1.00	8/19 12:24	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340310	ICSAB	1.00	8/19 12:28	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340311	CCV1	1.00	8/19 14:05	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340312	CCV2	1.00	8/19 14:08	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340313	CCB	1.00	8/19 14:12	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
339613	LCSW	1.00	8/19 14:39	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
339612	MBW	1.00	8/19 14:43	X	X	X	X	X		X	X	X	X	X	X	X		X				X		X		X			X			X	X
339561	Initial	1.00	8/19 14:47	X	X	X	X	X		X	X	X	X	X	X	X		X				X		X		X			X			X	X
340314	L	5	8/19 14:51	X	X	X	X	X		X	X	X	X	X	X	X		X				X		X		X			X			X	X
340315	CCV1	1.00	8/19 14:55	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340316	CCV2	1.00	8/19 14:58	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340317	CCB	1.00	8/19 15:01	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
339614	DUP	1.00	8/19 15:05	X	X	X	X	X		X	X	X	X	X	X	X		X				X		X		X			X			X	X
339615	MSW	1.00	8/19 15:09	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
339616	MSDW	1.00	8/19 15:13	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340318	PDSW	1.00	8/19 15:17	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340319	CCV1	1.00	8/19 15:45	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340320	CCV2	1.00	8/19 15:48	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
340321	CCB	1.00	8/19 15:52	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
341603	ICV	1.00	8/21 13:17	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
341604	ICV	1.00	8/21 13:20	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
341605	ICB	1.00	8/21 13:28	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
341606	MRL	1.00	8/21 13:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
341607	ICSA	1.00	8/21 13:36	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Lab Code: CTL | SDG No.: 99335

Instrument ID Number: TJA | Method Number: P

Start & End Date: 08/19/2013 to 08/21/2013 | Analytical Run #: 96853

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
341608	ICSAB	1.00	8/21 13:40	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
339612	MBW	1.00	8/21 13:51														X															
339561	Re-Analysis	1.00	8/21 13:55														X															
340314	L	5	8/21 13:59														X															
339614	DUP	1.00	8/21 14:03														X															
341609	CCV1	1.00	8/21 14:28	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
341610	CCV2	1.00	8/21 14:31	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
341611	CCB	1.00	8/21 14:35	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Lab Code: CTL | SDG No.: 99335

Instrument ID Number: TJA | Method Number: P

Start & End Date: 08/20/2013 to 08/20/2013 | Analytical Run #: 96854

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
341309	ICV	1.00	8/20 09:48																				X				X					
341311	ICB	1.00	8/20 09:50																				X				X					
341312	MRL	1.00	8/20 09:51																				X				X					
341313	ICSA	1.00	8/20 09:52	X							X				X		X						X				X					
341314	ICSAB	1.00	8/20 09:53	X							X				X		X						X				X					
339613	LCSW	1.00	8/20 10:03																				X				X					
341315	CCV	1.00	8/20 10:04																				X				X					
341316	CCB	1.00	8/20 10:05																				X				X					
339612	MBW	1.00	8/20 10:06																				X				X					
339561	Initial	1.00	8/20 10:07																				X				X					
341317	L	5	8/20 10:08																				X				X					
339614	DUP	1.00	8/20 10:09																				X				X					
339615	MSW	1.00	8/20 10:10																				X				X					
339616	MSDW	1.00	8/20 10:11																				X				X					
341318	PDSW	1.00	8/20 10:12																				X				X					
341416	CCV	1.00	8/20 10:16																				X				X					
341417	CCB	1.00	8/20 10:17																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Lab Code: CTL | SDG No.: 99335

Instrument ID Number: TJA | Method Number: P

Start & End Date: 08/23/2013 to 08/23/2013 | Analytical Run #: 97082

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
346720	ICV	1.00	8/23 13:44			X	X			X		X				X								X		X							
346721	ICV	1.00	8/23 13:47			X	X			X		X				X								X		X							
346722	ICB	1.00	8/23 13:53			X	X			X		X				X								X		X							
346723	MRL	1.00	8/23 13:57			X	X			X		X				X								X		X							
346724	ICSA	1.00	8/23 14:00	X		X	X			X	X	X			X	X	X							X		X							
346725	ICSAB	1.00	8/23 14:03	X		X	X			X	X	X			X	X	X							X		X							
346732	CCV1	1.00	8/23 17:41			X	X			X		X				X								X		X							
346733	CCV2	1.00	8/23 17:44			X	X			X		X				X								X		X							
346734	CCB	1.00	8/23 17:47			X	X			X		X				X								X		X							
340798	LCSW	1.00	8/23 18:01			X	X			X		X				X								X		X							
340797	MBW	1.00	8/23 18:04			X	X			X		X				X								X		X							
339578	Initial	1.00	8/23 18:07			X	X			X		X				X								X		X							
339580	Initial	1.00	8/23 18:11			X	X			X		X				X								X		X							
346735	L	5	8/23 18:15			X	X			X		X				X								X		X							
340799	DUP	1.00	8/23 18:18			X	X			X		X				X								X		X							
340800	MSW	1.00	8/23 18:22			X	X			X		X				X								X		X							
346736	CCV1	1.00	8/23 18:25			X	X			X		X				X								X		X							
346737	CCV2	1.00	8/23 18:28			X	X			X		X				X								X		X							
346738	CCB	1.00	8/23 18:31			X	X			X		X				X								X		X							
340801	MSDW	1.00	8/23 18:34			X	X			X		X				X								X		X							
346739	PDSW	1.00	8/23 18:38			X	X			X		X				X								X		X							
346740	CCV1	1.00	8/23 18:44			X	X			X		X				X								X		X							
346727	CCV2	1.00	8/23 18:47			X	X			X		X				X								X		X							
346728	CCB	1.00	8/23 18:50			X	X			X		X				X								X		X							

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: ECC-RVAAP

Lab Code: CTL
SDG No.: 99335

Instrument ID Number: CETAC
Method Number: CV

Start & End Date: 08/21/2013 to 08/21/2013
Analytical Run #: 96908

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
341152	ICV	1.00	8/21 08:29																X													
341153	ICB	1.00	8/21 08:31																X													
341164	CCV	1.00	8/21 10:50																X													
341165	CCB	1.00	8/21 10:52																X													
339931	LCSW	1.00	8/21 10:54																X													
339930	MBW	1.00	8/21 10:56																X													
339561	Initial	1.00	8/21 10:58																X													
341166	L	5	8/21 11:00																X													
339932	DUP	1.00	8/21 11:02																X													
339933	MSW	1.00	8/21 11:04																X													
339934	MSDW	1.00	8/21 11:06																X													
341167	PDSW	1.00	8/21 11:08																X													
341168	CCV	1.00	8/21 11:14																X													
341169	CCB	1.00	8/21 11:16																X													

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: ECC-RVAAP

Lab Code: CTL
SDG No.: 99335

Instrument ID Number: CETAC
Method Number: CV

Start & End Date: 08/21/2013 to 08/21/2013
Analytical Run #: 96919

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
341013	ICV	1.00	8/21 08:29																X													
341014	ICB	1.00	8/21 08:31																X													
340122	LCSW	1.00	8/21 08:46																X													
340121	MBW	1.00	8/21 08:48																X													
339578	Initial	1.00	8/21 08:50																X													
341015	CCV	1.00	8/21 08:52																X													
341016	CCB	1.00	8/21 08:54																X													
339580	Initial	1.00	8/21 08:56																X													
341017	L	5	8/21 08:58																X													
340123	DUP	1.00	8/21 09:00																X													
340124	MSW	1.00	8/21 09:02																X													
340125	MSDW	1.00	8/21 09:04																X													
341018	PDSW	1.00	8/21 09:06																X													
341019	CCV	1.00	8/21 09:16																X													
341020	CCB	1.00	8/21 09:18																X													

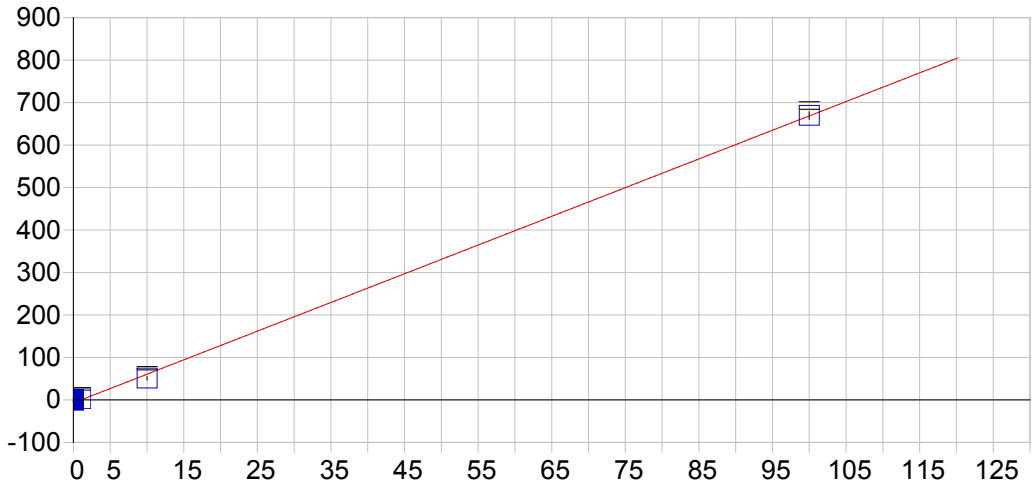
METALS
RAW DATA
DOCUMENTS

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	08/20/2013 11:11:12	08/19/2013 11:38:25	Linear	None	-6.929959	6.756255	0.000000	1.000000	0.999788	8.242722	0.640502	2.135008
Al 309.271 {109}	08/20/2013 11:11:12	08/19/2013 11:53:56	Curvilin	1/Conc	-0.000629	0.000003	0.000000	1.000000	0.999983	0.000012	20.273408	67.578026
Al 396.152 { 85}	08/20/2013 11:11:12	08/19/2013 12:02:05	Curvilin	1/Conc	-0.000068	0.000007	0.000000	1.000000	0.999994	0.000149	10.984581	36.615269
Al 167.079 {502}	08/20/2013 11:11:12	08/19/2013 11:41:40	Curvilin	1/Conc	0.810904	0.364414	-0.000074	1.000000	0.997655	0.093243	0.936656	3.122188
As 193.759 {474}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	None	0.569078	0.427162	0.000000	1.000000	0.999992	0.835052	1.759818	5.866061
As 189.042 {479}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	-0.102476	0.079003	0.000000	1.000000	1.000000	0.166293	5.304500	17.681667
Ba 455.403 { 74}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	79.610792	37.974972	0.000000	1.000000	1.000000	52.006568	0.218496	0.728320
Ba 493.409 { 68}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	-760.22153	39.788462	0.000000	1.000000	0.999992	937.825422	0.567313	1.891043
Be 313.042 {108}	08/20/2013 11:11:12	08/19/2013 11:38:25	Linear	1/Conc	0.000070	0.000190	0.000000	1.000000	0.997295	0.000003	0.122904	0.409679
Be 234.861 {144}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	-0.000003	0.000021	0.000000	1.000000	0.999887	0.000006	0.603726	2.012421
Ca 317.933 {106}	08/20/2013 11:11:12	08/19/2013 12:02:05	Curvilin	1/Conc	0.009836	0.000007	0.000000	1.000000	0.999948	0.000112	3.698631	12.328769
Ca 393.366 { 86}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	None	1656.89162	97.983417	0.000000	1.000000	0.999892	841.495987	0.051884	0.172947
Ca 396.847 { 85}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	0.001930	0.000421	0.000000	1.000000	0.999996	0.007118	0.100817	0.336057
Cd 226.502 {449}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	None	5.303369	7.320357	0.000000	1.000000	0.999985	14.825777	0.153676	0.512255
Cd 228.802 {447}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	5.194329	11.325559	0.000000	1.000000	0.999823	3.870694	0.114837	0.382790
Co 228.616 {447}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	-0.753853	6.778636	0.000000	1.000000	0.999717	0.476693	0.187664	0.625548
Co 238.892 {141}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	0.000027	0.000004	0.000000	1.000000	0.999857	0.000014	4.082550	13.608500
Cr 267.716 {126}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	None	12.085688	7.257256	0.000000	1.000000	0.999994	11.272272	0.592143	1.973809
Cr 283.563 {119}	08/20/2013 11:11:12	08/19/2013 11:49:58	Linear	None	0.000495	0.000014	0.000000	1.000000	0.999998	0.001347	1.943313	6.477710
Cu 224.700 {450}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	2.466395	2.307462	0.000000	1.000000	0.999633	0.180108	0.500636	1.668787
Cu 324.754 {104}	08/20/2013 11:11:12	08/19/2013 11:49:58	Linear	1/Conc	0.004237	0.000015	0.000000	1.000000	0.999957	0.000019	2.649397	8.831322
Cu 327.396 {103}	08/20/2013 11:11:12	08/19/2013 11:49:58	Linear	1/Conc	-0.000086	0.000003	0.000000	1.000000	0.999968	0.000001	14.479566	48.265220
Fe 234.349 {144}	08/20/2013 11:11:12	08/19/2013 12:02:05	Full Fit	1/Conc	0.000017	0.000002	0.000000	0.970000	0.999985	0.000012	6.028112	20.093707
Fe 239.562 {141}	08/20/2013 11:11:12	08/19/2013 11:53:56	Linear	None	0.000256	0.000002	0.000000	1.000000	0.999989	0.000472	5.851085	19.503615
Fe 259.940 {130}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	0.000018	0.000006	0.000000	1.000000	0.999568	0.000003	3.290878	10.969594
Mg 202.582 {466}	08/20/2013 11:11:12	08/19/2013 12:02:05	Full Fit	1/Conc	-6.636047	0.865878	-0.000001	0.940000	0.999919	34.081387	1.028446	3.428153
Mg 279.079 {121}	08/20/2013 11:11:12	08/19/2013 12:02:05	Linear	1/Conc	-0.000004	0.000000	0.000000	1.000000	0.999933	0.000017	40.313113	134.377043
Mg 280.270 {120}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	-0.000317	0.000092	0.000000	1.000000	0.999990	0.002065	0.144545	0.481815
Mn 257.610 {131}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	0.000020	0.000033	0.000000	1.000000	0.999702	0.000002	0.421604	1.405348
Mn 259.373 {130}	08/20/2013 11:11:12	08/19/2013 11:49:58	Linear	1/Conc	0.000038	0.000035	0.000000	1.000000	0.999728	0.000381	0.645187	2.150622
Mo 203.844 {465}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	0.000072	0.000019	0.000000	1.000000	0.999822	0.000000	0.571809	1.906029
Mo 202.030 {467}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	-0.013315	1.604725	0.000000	1.000000	0.999862	0.112203	0.444931	1.483104
Mo 204.598 {465}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	0.312371	1.008919	0.000000	1.000000	0.999999	5.201663	0.690733	2.302444
Ni 221.647 {452}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	41.439237	4.228194	0.000000	1.000000	0.999998	46.257364	0.331921	1.106402
Ni 231.604 {445}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	-6.321117	5.539708	0.000000	1.000000	0.999646	0.435185	0.329834	1.099447
Pb 216.999 {455}	08/20/2013 11:11:12	08/19/2013 11:49:58	Curvilin	1/Conc	1.984025	0.372434	-0.000000	1.000000	0.999979	0.395402	2.867784	9.559279
Pb 220.353 {453}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	None	6.088280	0.732806	0.000000	1.000000	0.999979	2.409235	1.535399	5.117996
Sb 206.833 {463}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	1.453584	0.549517	0.000000	1.000000	0.999989	0.034883	1.488111	4.960369
Sb 217.581 {455}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	None	-2.317605	0.536325	0.000000	1.000000	0.999988	1.343479	2.206190	7.353965
Se 196.090 {172}	08/20/2013 11:11:12	08/19/2013 11:45:46	Curvilin	1/Conc	1.185412	0.194161	-0.000000	1.000000	0.999538	0.087685	6.844781	22.815937
Se 196.090 {472}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-0.816635	0.203939	0.000000	1.000000	0.999755	0.058349	3.662086	12.206952
Se 206.279 {463}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-2.622657	0.063452	0.000000	1.000000	0.999977	0.077978	18.317681	61.058938
Tl 276.787 {122}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	None	-0.000001	0.000000	0.000000	1.000000	0.999934	0.000021	108.071635	360.238782
Tl 190.856 {477}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	-0.678557	0.426126	0.000000	1.000000	0.999541	0.056756	1.369945	4.566483

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
	Al 309.271 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	Al 167.079 {502}	OK.	1.000000	0.000000	1	0
	As 193.759 {474}	OK.	1.000000	0.000000	1	0
	As 189.042 {479}	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
	Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	OK.	1.000000	0.000000	1	0
	Be 234.861 {144}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
	Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
	Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	OK.	1.000000	0.000000	1	0
	Co 238.892 {141}	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
	Cr 283.563 {119}	OK.	1.000000	0.000000	1	0
	Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	OK.	1.000000	0.000000	1	0
	Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
	Fe 239.562 {141}	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	OK.	1.000000	0.000000	1	0
	Mg 202.582 {466}	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
	Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
	Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
	Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	OK.	1.000000	0.000000	1	0
	Mo 204.598 {465}	OK.	1.000000	0.000000	1	0
	Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
	Pb 216.999 {455}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
	Sb 217.581 {455}	OK.	1.000000	0.000000	1	0
	Se 196.090 {172}	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	OK.	1.000000	0.000000	1	0
	Se 206.279 {463}	OK.	1.000000	0.000000	1	0
	Tl 276.787 {122}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	OK.	1.000000	0.000000	1	0

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
	V 290.882 {116}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-0.000034	0.000008	0.000000	1.000000	0.999854	0.000025	4.732516	15.775053
	V 292.402 {115}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	12.208603	13.266022	0.000000	1.000000	0.999909	0.751426	0.524283	1.747611
	Zn 206.200 {463}	08/20/2013 11:11:12	08/19/2013 11:49:58	Full Fit	None	21.625856	5.532341	-0.000009	1.000000	1.000000	0.000000	0.163115	0.543718
	Zn 213.856 {458}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	1/Conc	33.965650	4.717760	0.000000	1.000000	0.999463	0.679999	0.146862	0.489539
	Y 360.073 { 94}*	08/20/2013 11:11:12	08/19/2013 11:08:02	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Na 330.298 {102}	08/20/2013 11:11:12	08/19/2013 11:49:58	Linear	1/Conc	0.000016	0.000000	0.000000	1.000000	1.000000	0.000000	801.605118	2672.01706
	Si 251.611 {134}	08/20/2013 11:11:12	08/19/2013 11:41:40	Linear	None	0.000103	0.000000	0.000000	1.000000	1.000000	0.000000	421.617851	1405.39283
	Ti 334.941 {101}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-0.000010	0.000031	0.000000	1.000000	0.999803	0.000002	1.021695	3.405651
	Ti 337.280 {100}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-0.000108	0.000039	0.000000	1.000000	0.999747	0.000003	1.144782	3.815939
	Sr 407.771 { 83}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-0.009223	0.000748	0.000000	1.000000	0.999979	0.000019	0.118091	0.393638
	Sr 421.552 { 80}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-0.000108	0.000645	0.000000	1.000000	0.999879	0.000040	0.108510	0.361701
	Sn 189.989 {477}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	0.000015	0.000010	0.000000	1.000000	0.999917	0.000001	0.583997	1.946658
	Sn 283.999 {119}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	-0.000010	0.000001	0.000000	1.000000	0.999543	0.000001	31.567888	105.226292
	B 249.773 {135}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	0.000015	0.000006	0.000000	1.000000	0.999731	0.000002	3.029789	10.099296
	Li 670.784 { 50}	08/20/2013 11:11:12	08/19/2013 11:45:46	Linear	1/Conc	0.000280	0.000154	0.000000	1.000000	0.999702	0.000051	0.959214	3.197380

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {458}	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	Warnin	1.000000	0.000000	1	0
	Na 330.298 {102}	OK.	1.000000	0.000000	1	0
	Si 251.611 {134}	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0
	Ti 337.280 {100}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	OK.	1.000000	0.000000	1	0
	Sn 283.999 {119}	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0

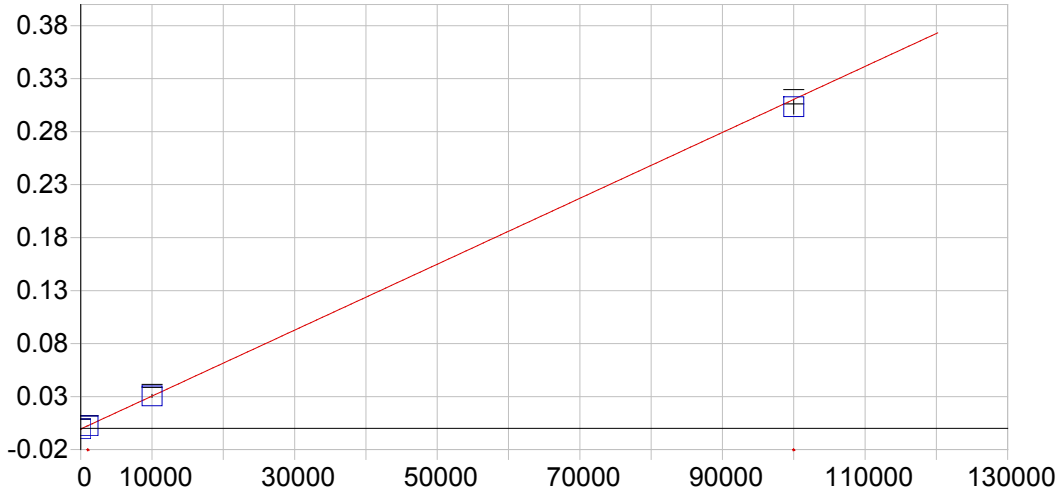


Ag 328.068 {103}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-6.929959	Re-Slope:	1.000000
A1 (Gain):	6.756255	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	8.242722		
Predicted MDL:	0.640502		
Predicted MQL:	2.135008		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.89412	.894	.000	-.88907	2.27	1
CalibStd=10	10.000	8.5824	-1.42	-14.2	51.055	3.86	1
CalibStd=1	1.0000	1.3856	.386	38.6	2.4316	2.82	1
CalibStd=100	100.00	100.14	.138	.138	669.63	8.78	1

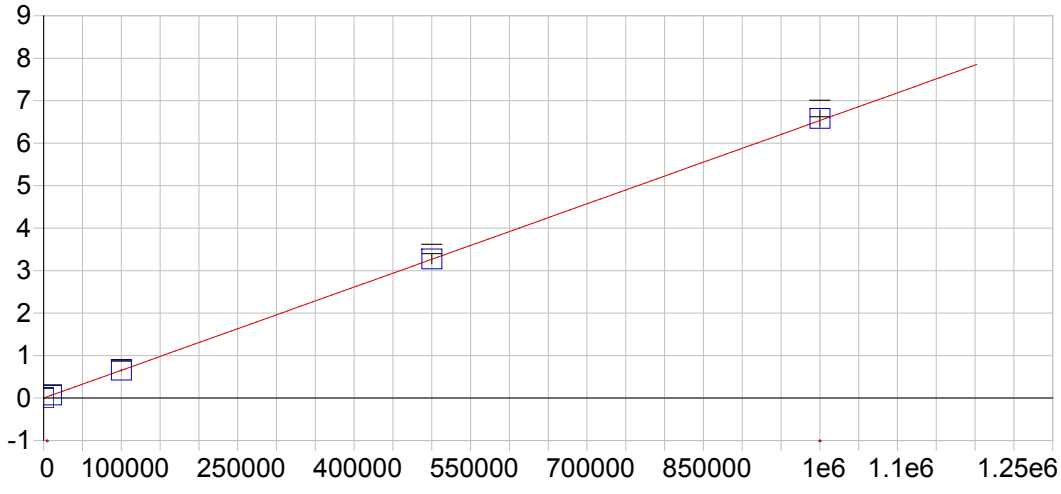


Al 309.271 {109}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000629	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	20.273408		
Predicted MQL:	67.578026		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.05009	.050	.000	-.00063	.000	1
CalibStd=100	10000.	10039.	39.4	.394	.03060	.001	1
CalibStd=100	1000.0	943.56	-56.4	-5.64	.00231	.000	1
CalibStd-100	100000.	97754.	-2250.	-2.25	.30344	.007	1

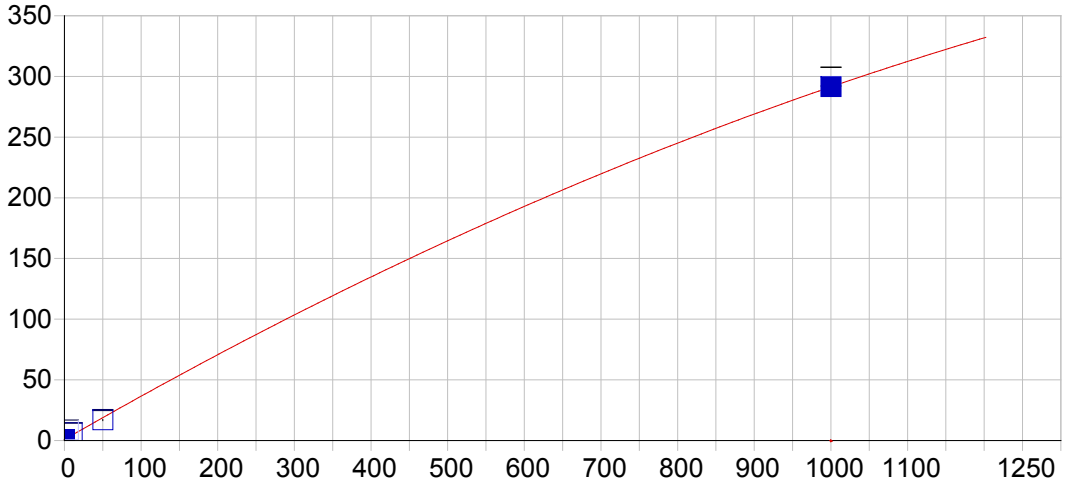


Al 396.152 { 85}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000068	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000149		
Predicted MDL:	10.984581		
Predicted MQL:	36.615269		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.41948	-.419	.000	-.00007	.000	1
CalibStd-100	1000000.	1007200.	7200.	.720	6.5797	.195	1
CalibStd=500	500000.	501140.	1140.	.228	3.2738	.111	1
CalibStd=100	10000.	10445.	445.	4.45	.06817	.003	1
CalibStd-100	100000.	99903.	-96.6	-.097	.65257	.016	1

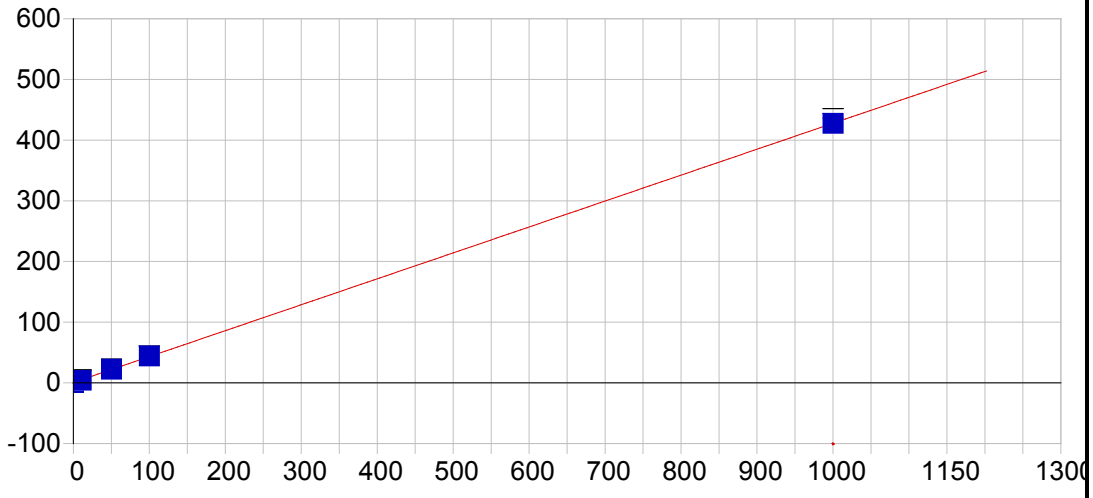


Al 167.079 {502}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.810904	Re-Slope:	1.000000
A1 (Gain):	0.364414	Y-int:	0.000000
A2 (Curvature):	-0.000074		
n (Exponent):	1.000000		
Correlation:	0.997655	Status:	OK.
Std Error of Est:	0.093243		
Predicted MDL:	0.936656		
Predicted MQL:	3.122188		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00205	-.002	.000	.81016	.161	1
CalibStd=100	1000.0	1000.4	.367	.037	291.72	7.75	1
CalibStd=10	10.000	15.213	5.21	52.1	6.3378	.113	1
CalibStd=5	5.0000	21.490	16.5	330.	8.6080	.239	0
CalibStd=50	50.000	44.489	-5.51	-11.0	16.877	.421	1

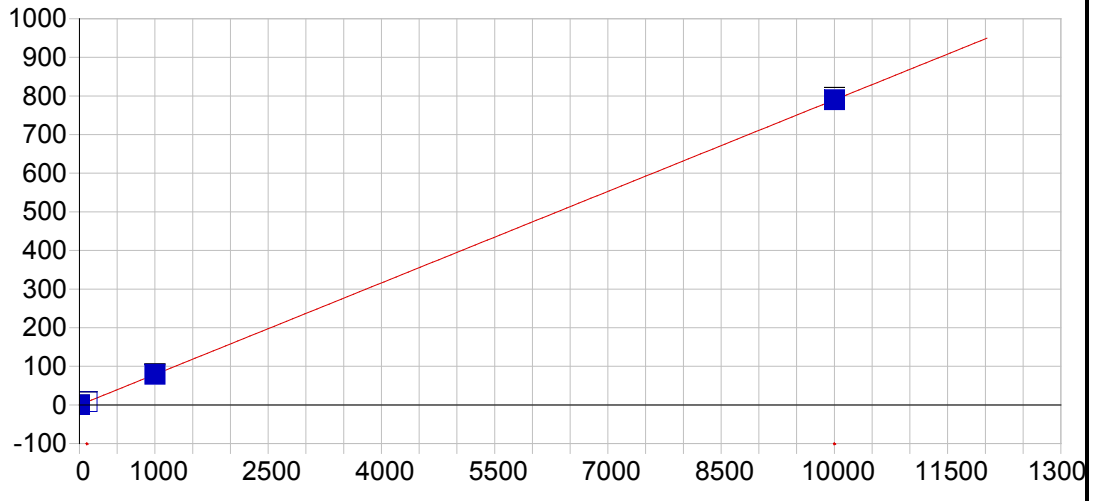


As 193.759 {474}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.569078	Re-Slope:	1.000000
A1 (Gain):	0.427162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.835052		
Predicted MDL:	1.759818		
Predicted MQL:	5.866061		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9548	-1.95	.000	-.26594	.517	1
CalibStd=100	1000.0	999.73	-.269	-.027	427.56	7.71	1
CalibStd=50	50.000	51.114	1.11	2.23	22.403	.325	1
CalibStd=10	10.000	8.8644	-1.14	-11.4	4.3556	.446	1
CalibStd=100	100.00	102.24	2.24	2.24	44.244	.205	1

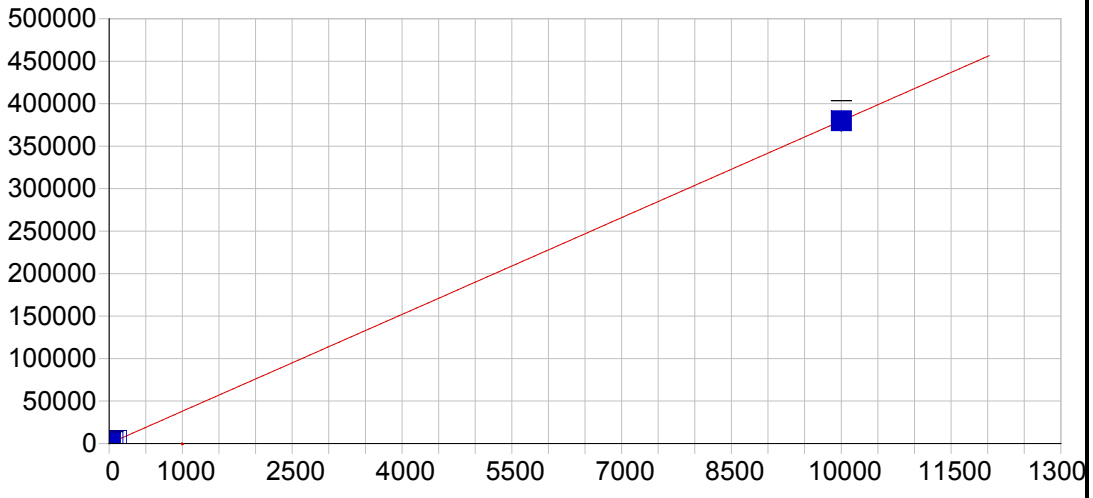


As 189.042 {479}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.102476	Re-Slope:	1.000000
A1 (Gain):	0.079003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.166293		
Predicted MDL:	5.304500		
Predicted MQL:	17.681667		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.2848	-2.28	.000	-.28298	.085	1
CalibStd=100	1000.0	1000.5	.521	.052	78.936	1.17	1
CalibStd=100	10000.	9999.9	-.070	-.001	789.86	6.14	1
CalibStd=100	100.00	101.83	1.83	1.83	7.9428	.270	1

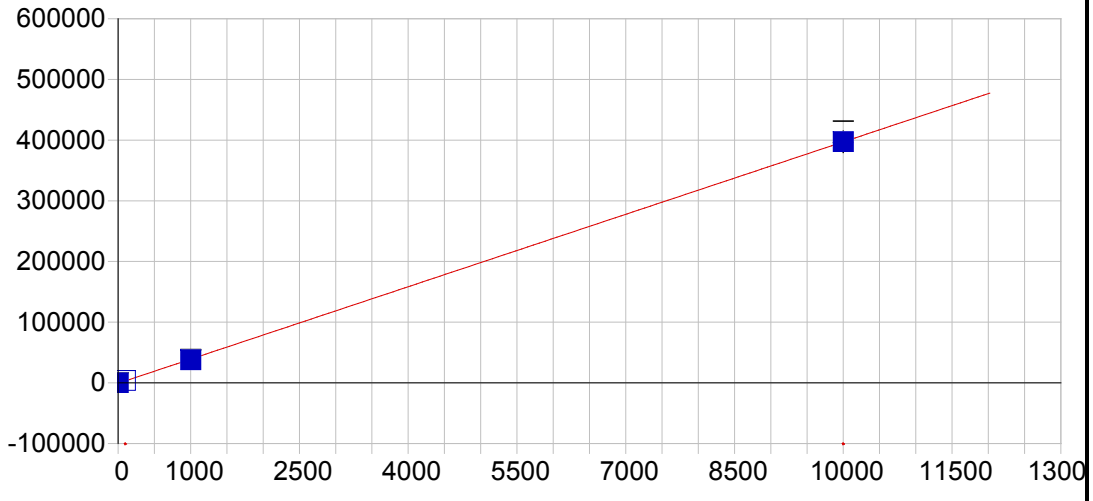


Ba 455.403 { 74}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	79.610792	Re-Slope:	1.000000
A1 (Gain):	37.974972	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	52.006568		
Predicted MDL:	0.218496		
Predicted MQL:	0.728320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.2569	-1.26	.000	31.881	8.87	1
CalibStd=50	50.000	51.841	1.84	3.68	2048.3	23.1	1
CalibStd=10	10.000	9.1394	-.861	-8.61	426.68	6.65	1
CalibStd=20	20.000	19.669	-.331	-1.65	826.56	19.6	1
CalibStd=100	100.00	101.61	1.61	1.61	3938.3	64.7	1
CalibStd=5	5.0000	4.0192	-.981	-19.6	232.24	6.84	1
CalibStd=100	10000.	10000.0	-.023	.000	379830.	12000.	1

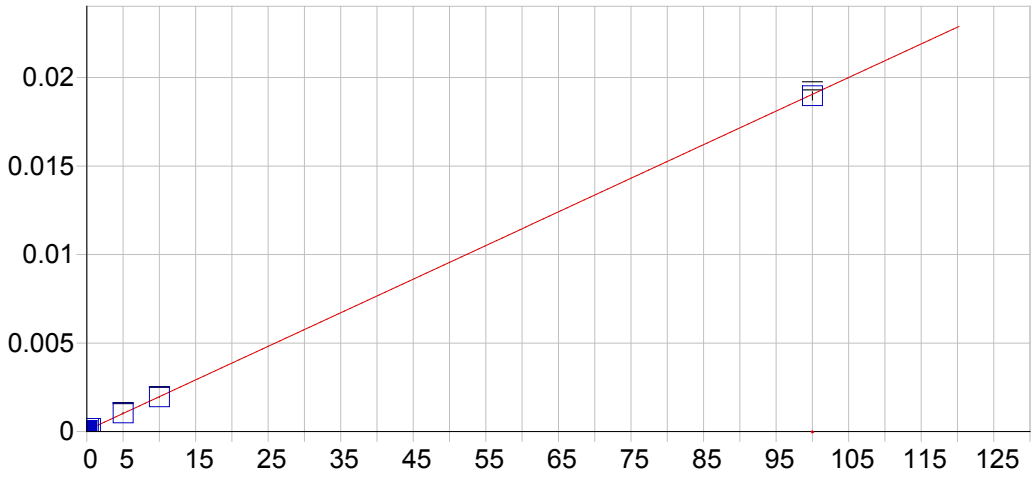


Ba 493.409 { 68}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-760.221531	Re-Slope:	1.000000
A1 (Gain):	39.788462	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	937.825422		
Predicted MDL:	0.567313		
Predicted MQL:	1.891043		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	11.452	11.5	.000	-304.55	20.2	1
CalibStd=100	1000.0	972.05	-28.0	-2.80	37916.	636.	1
CalibStd=100	10000.	10003.	2.66	.027	397230.	17700.	1
CalibStd=100	100.00	113.84	13.8	13.8	3769.4	41.2	1

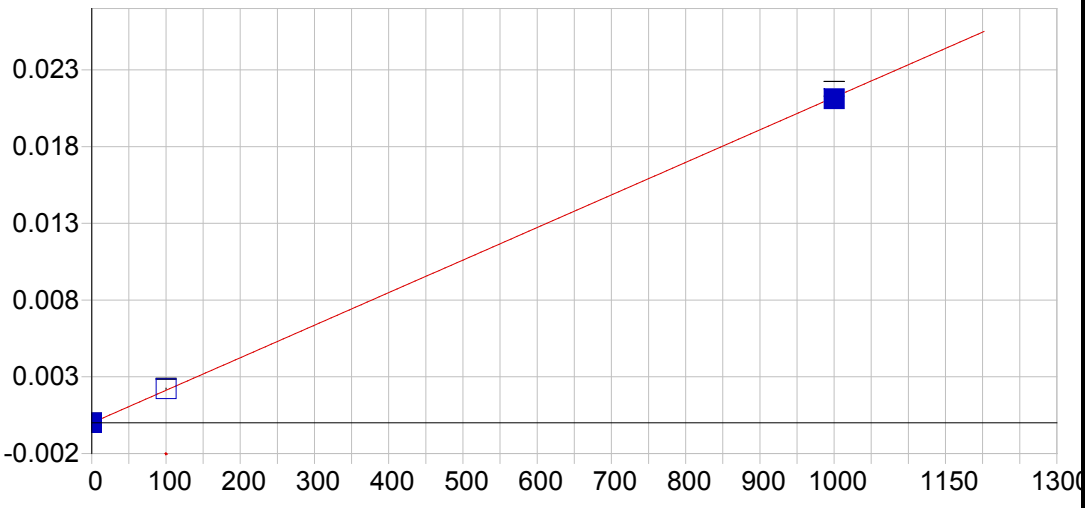


Be 313.042 {108}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000070	Re-Slope:	1.000000
A1 (Gain):	0.000190	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997295	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.122904		
Predicted MQL:	0.409679		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00040	.000	.000	.00007	.000	1
CalibStd=10	10.000	9.9350	-.065	-.650	.00196	.000	1
CalibStd=100	100.00	99.538	-.462	-.462	.01896	.000	1
CalibStd=0.5	.50000	.51086	.011	2.17	.00017	.000	1
CalibStd=5	5.0000	5.1213	.121	2.43	.00104	.000	1
CalibStd=0.2	.25000	.64442	.394	158.	.00019	.000	1

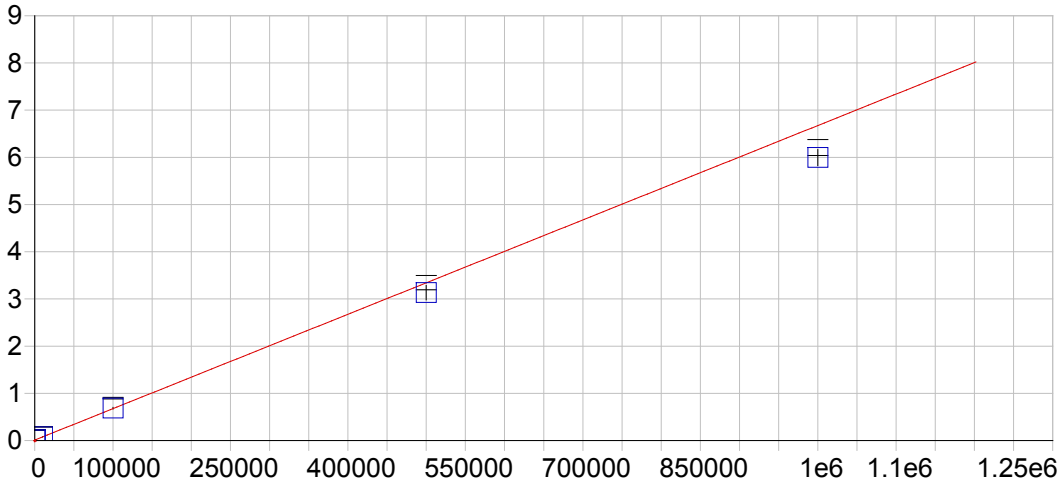


Be 234.861 {144}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999887	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.603726		
Predicted MQL:	2.012421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00427	-.004	.000	.00000	.000	1
CalibStd=100	1000.0	995.26	-4.74	-.474	.02111	.000	1
CalibStd=100	100.00	104.74	4.74	4.74	.00222	.000	1

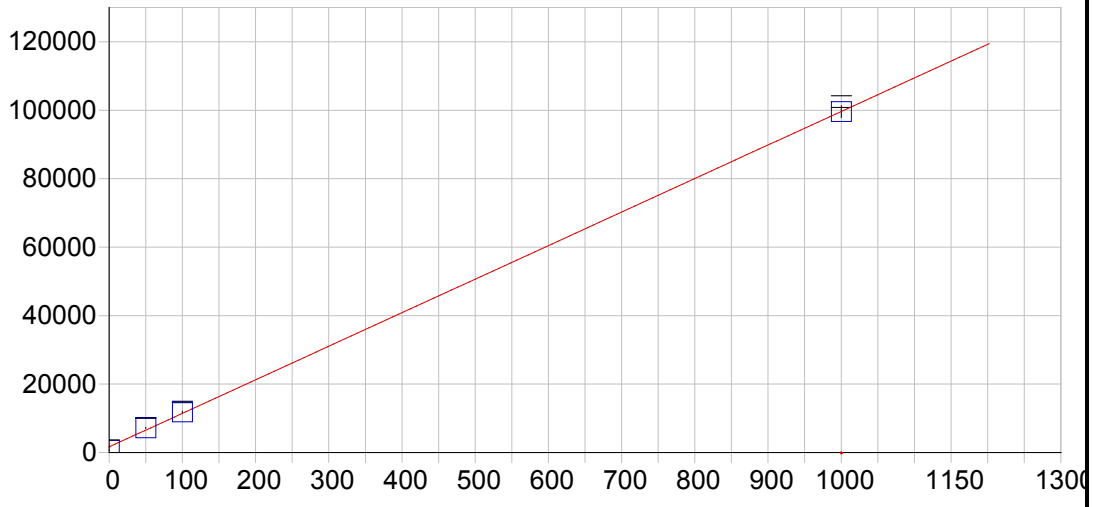


Ca 317.933 {106}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.009836	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	3.698631		
Predicted MQL:	12.328769		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01895	-.019	.000	.00984	.000	1
CalibStd=100	10000.	10359.	359.	3.59	.07886	.003	1
CalibStd=500	500000.	468700.	-31300.	-6.26	3.1332	.152	1
CalibStd-100	1000000.	898310.	-102000.	-10.2	5.9961	.169	1
CalibStd=100	1000.0	964.43	-35.6	-3.56	.01626	.000	1
CalibStd-100	100000.	101530.	1530.	1.53	.68641	.017	1

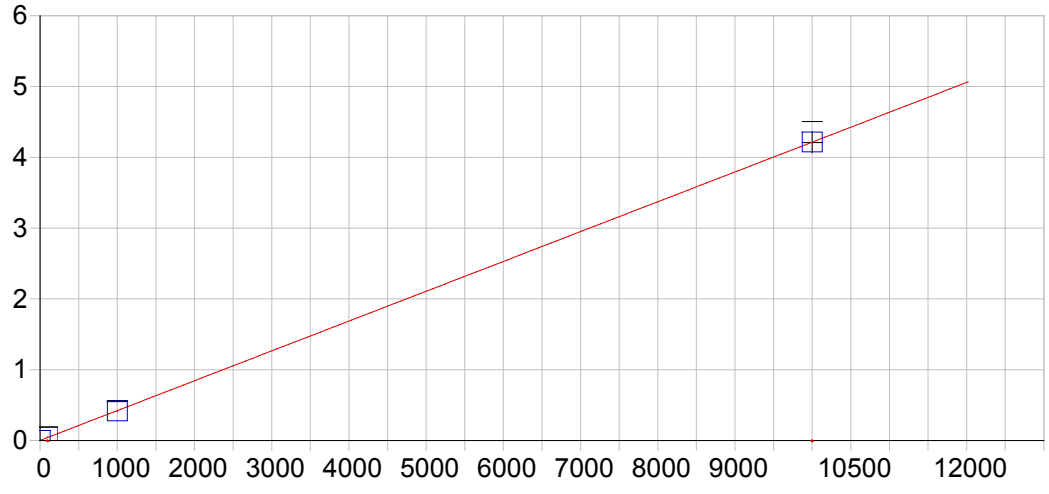


Ca 393.366 { 86}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	1656.891624	Re-Slope:	1.000000
A1 (Gain):	97.983417	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	841.495987		
Predicted MDL:	0.051884		
Predicted MQL:	0.172947		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-9.5582	-9.56	.000	720.34	11.2	1
CalibStd=50	50.000	56.345	6.35	12.7	7177.8	119.	1
CalibStd=100	1000.0	999.29	-.710	-.071	99571.	1710.	1
CalibStd=100	100.00	103.92	3.92	3.92	11840.	199.	1

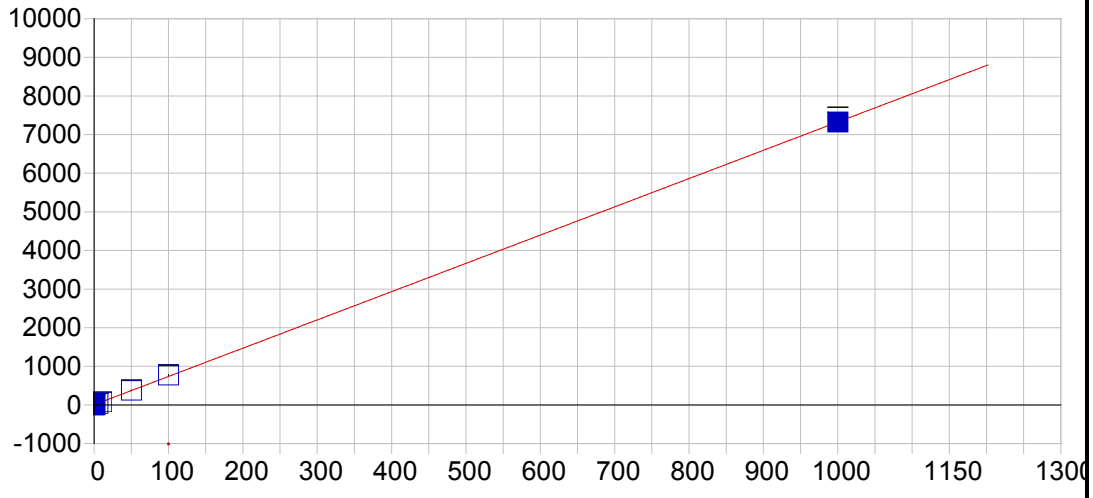


Ca 396.847 { 85}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001930	Re-Slope:	1.000000
A1 (Gain):	0.000421	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.007118		
Predicted MDL:	0.100817		
Predicted MQL:	0.336057		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.4684	2.47	.000	.00297	.000	1
CalibStd=100	10000.	10002.	1.73	.017	4.2160	.148	1
CalibStd=100	100.00	114.53	14.5	14.5	.05019	.001	1
CalibStd=100	1000.0	981.27	-18.7	-1.87	.41537	.008	1

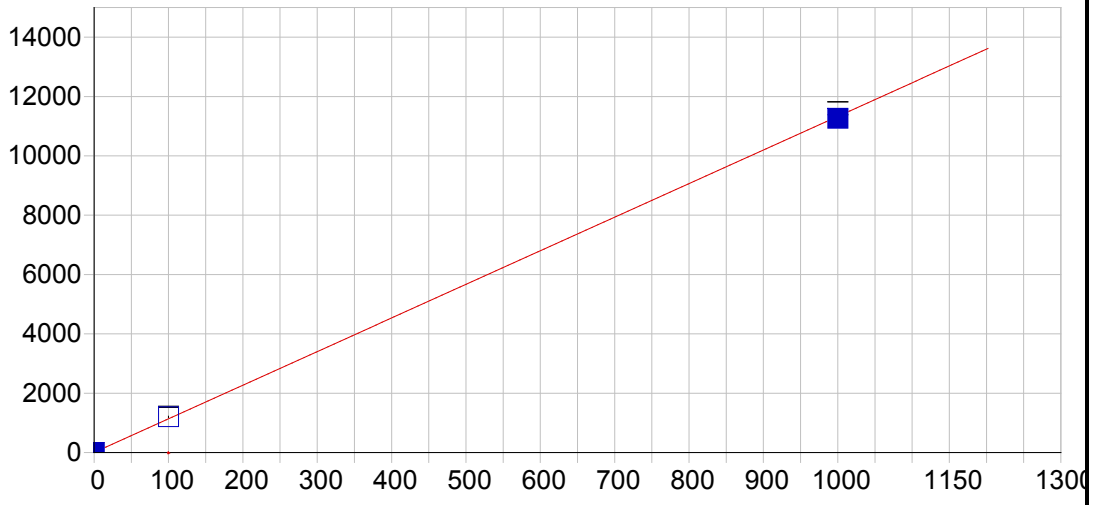


Cd 226.502 {449}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	5.303369	Re-Slope:	1.000000
A1 (Gain):	7.320357	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	14.825777		
Predicted MDL:	0.153676		
Predicted MQL:	0.512255		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.3353	-1.34	.000	-4.4712	.940	1
CalibStd=50	50.000	51.081	1.08	2.16	379.24	9.06	1
CalibStd=1	1.0000	-.12152	-1.12	-112.	4.4138	.632	1
CalibStd=0.5	.50000	-.69312	-1.19	-239.	.22951	.518	1
CalibStd=5	5.0000	4.3547	-.645	-12.9	37.181	.867	1
CalibStd=100	100.00	104.25	4.25	4.25	768.42	12.8	1
CalibStd=10	10.000	9.4364	-.564	-5.64	74.381	.895	1
CalibStd=100	1000.0	999.53	-.468	-.047	7322.6	126.	1

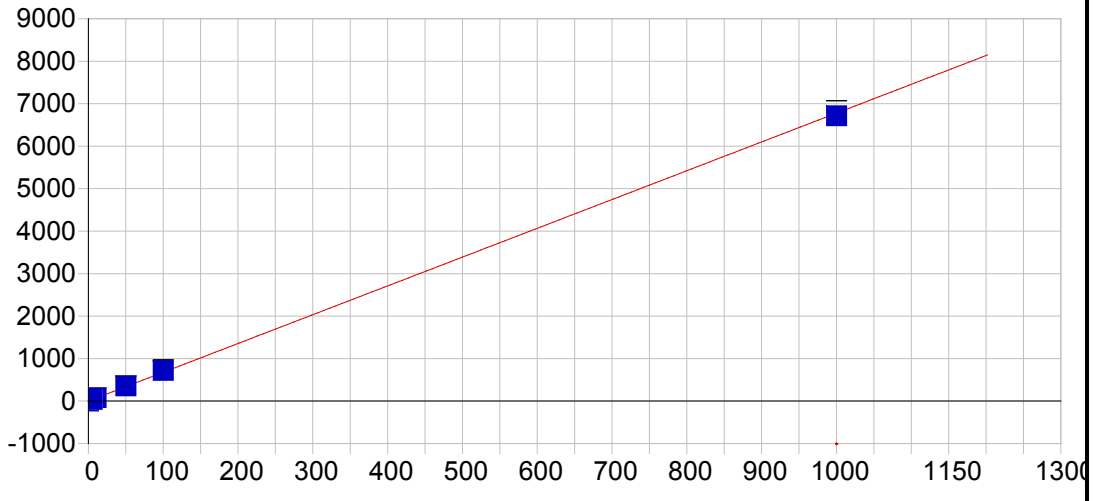


Cd 228.802 {447}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	5.194329	Re-Slope:	1.000000
A1 (Gain):	11.325559	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	3.870694		
Predicted MDL:	0.114837		
Predicted MQL:	0.382790		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00536	-.005	.000	5.1337	1.23	1
CalibStd=100	1000.0	994.05	-5.95	-.595	11263.	216.	1
CalibStd=100	100.00	105.95	5.95	5.95	1205.1	21.0	1

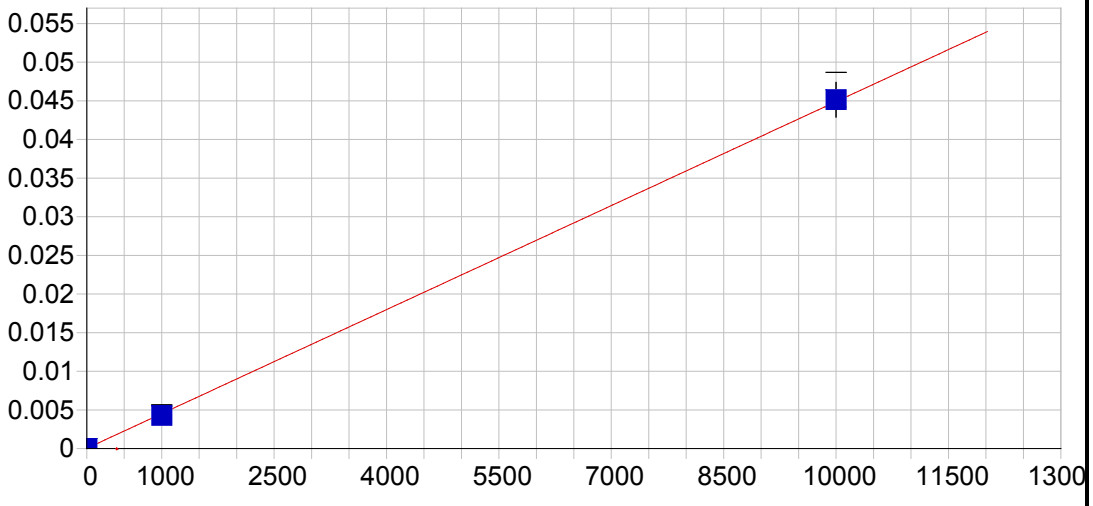


Co 228.616 {447}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.753853	Re-Slope:	1.000000
A1 (Gain):	6.778636	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999717	Status:	OK.
Std Error of Est:	0.476693		
Predicted MDL:	0.187664		
Predicted MQL:	0.625548		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00135	-.001	.000	-.76301	.407	1
CalibStd=50	50.000	52.185	2.18	4.37	353.30	9.10	1
CalibStd=10	10.000	10.745	.745	7.45	72.147	1.56	1
CalibStd=5	5.0000	5.5044	.504	10.1	36.589	.543	1
CalibStd=100	100.00	106.07	6.07	6.07	718.84	15.7	1
CalibStd=100	1000.0	990.50	-9.50	-.950	6719.7	117.	1

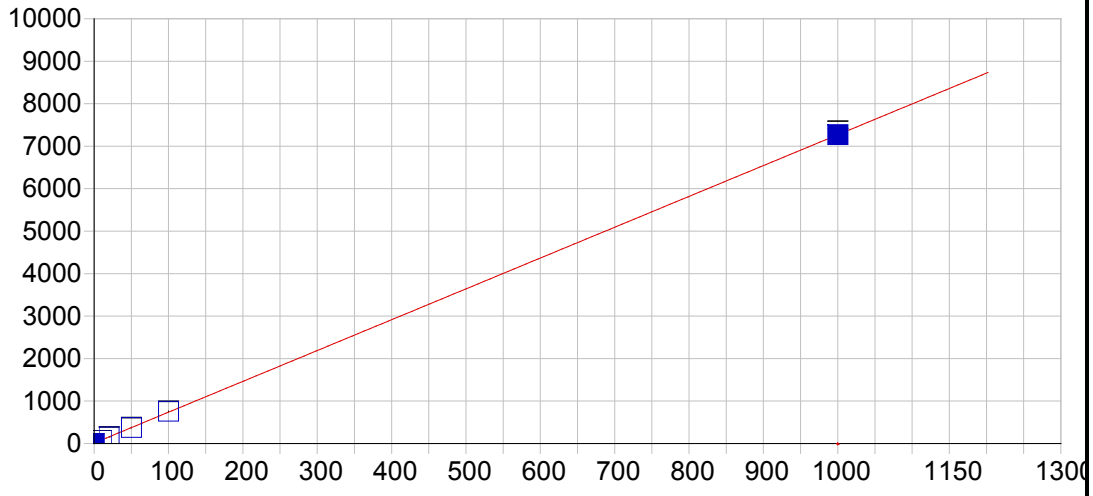


Co 238.892 {141}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	4.082550		
Predicted MQL:	13.608500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04804	.048	.000	.00003	.000	1
CalibStd=100	1000.0	946.62	-53.4	-5.34	.00428	.000	1
CalibStd=100	10000.	10053.	53.4	.534	.04515	.002	1

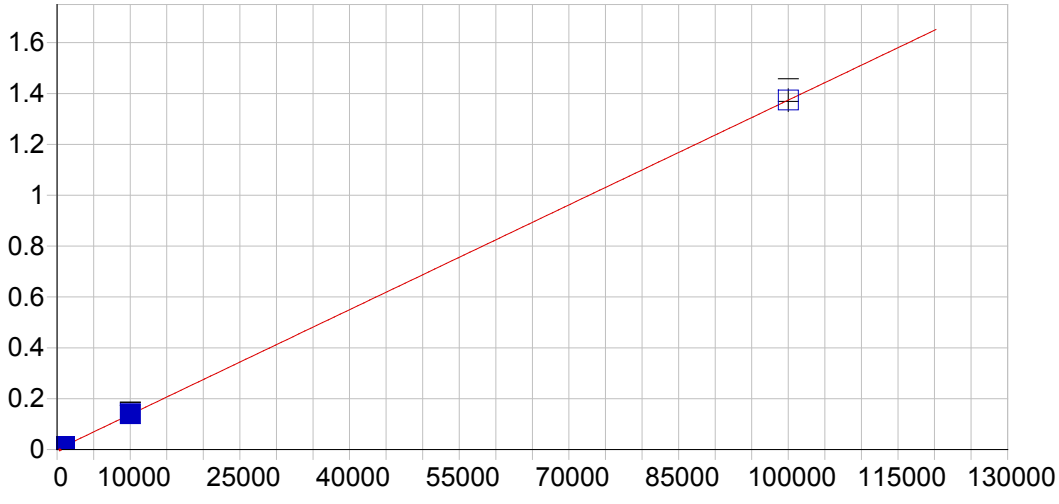


Cr 267.716 {126}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	12.085688	Re-Slope:	1.000000
A1 (Gain):	7.257256	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	11.272272		
Predicted MDL:	0.592143		
Predicted MQL:	1.973809		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4058	-1.41	.000	1.8837	1.86	1
CalibStd=10	10.000	9.4706	-.529	-5.29	80.816	3.05	1
CalibStd=50	50.000	50.114	.114	.228	375.78	6.89	1
CalibStd=100	1000.0	999.75	-.253	-.025	7267.4	88.5	1
CalibStd=20	20.000	19.430	-.570	-2.85	153.10	.475	1
CalibStd=100	100.00	102.64	2.64	2.64	757.00	8.55	1

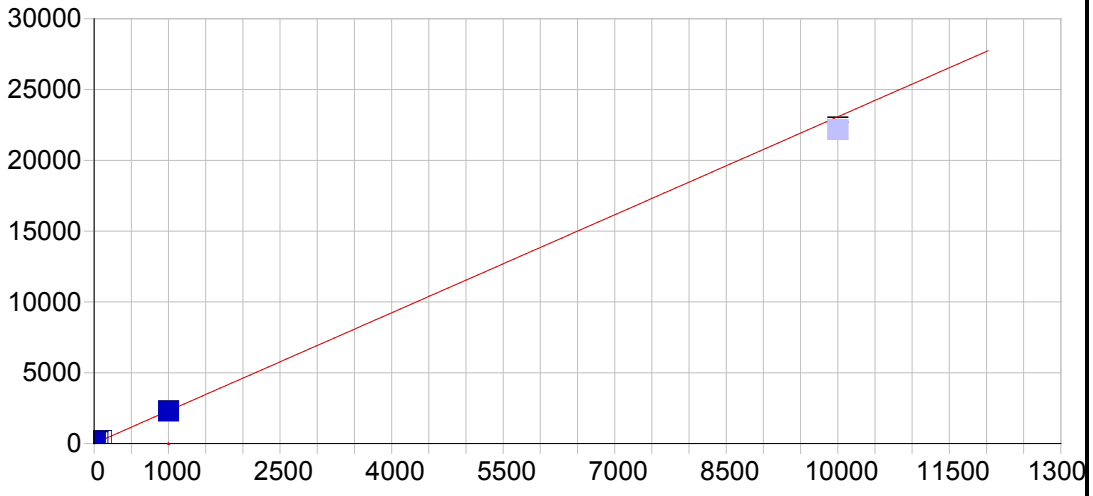


Cr 283.563 {119}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000495	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.001347		
Predicted MDL:	1.943313		
Predicted MQL:	6.477710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-32.070	-32.1	.000	.00005	.000	1
CalibStd=50	50.000	18.101	-31.9	-63.8	.00074	.000	1
CalibStd=100	100.00	70.844	-29.2	-29.2	.00147	.000	1
CalibStd=100	1000.0	934.10	-65.9	-6.59	.01333	.000	1
CalibStd=100	10000.	10176.	176.	1.76	.14032	.006	1
CalibStd-100	100000.	99983.	-16.9	-.017	1.3738	.044	1

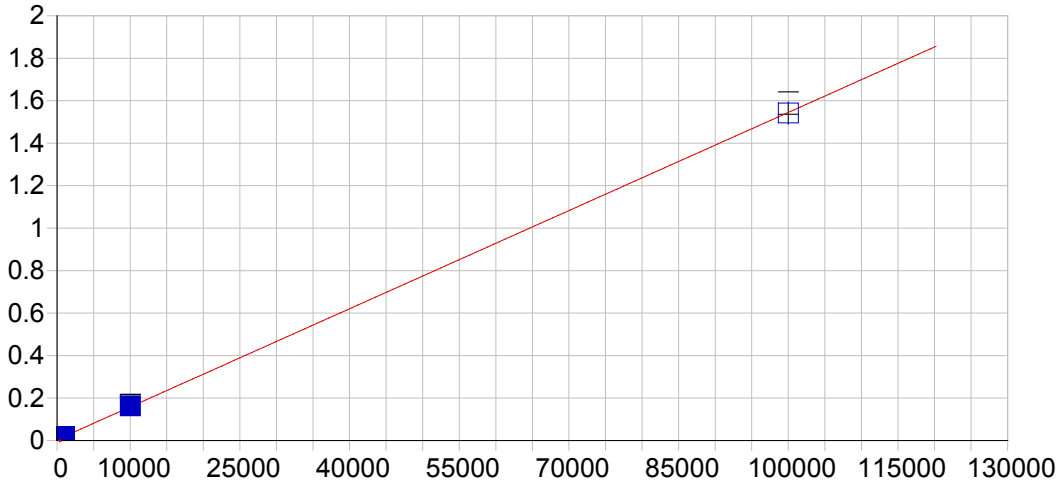


Cu 224.700 {450}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	2.466395	Re-Slope:	1.000000
A1 (Gain):	2.307462	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999633	Status:	OK.
Std Error of Est:	0.180108		
Predicted MDL:	0.500636		
Predicted MQL:	1.668787		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00222	-.002	.000	2.4613	.506	1
CalibStd=100	1000.0	989.37	-10.6	-1.06	2287.1	42.8	1
CalibStd=50	50.000	52.173	2.17	4.35	122.85	2.17	1
CalibStd=100	100.00	105.27	5.27	5.27	245.38	4.12	1
CalibStd=10	10.000	10.698	.698	6.98	27.152	.756	1
CalibStd=100	10000.	9601.0	-399.	-3.99	22174.	175.	0
CalibStd=5	5.0000	6.0895	1.09	21.8	16.518	1.12	1
CalibStd=20	20.000	21.410	1.41	7.05	51.870	2.22	1

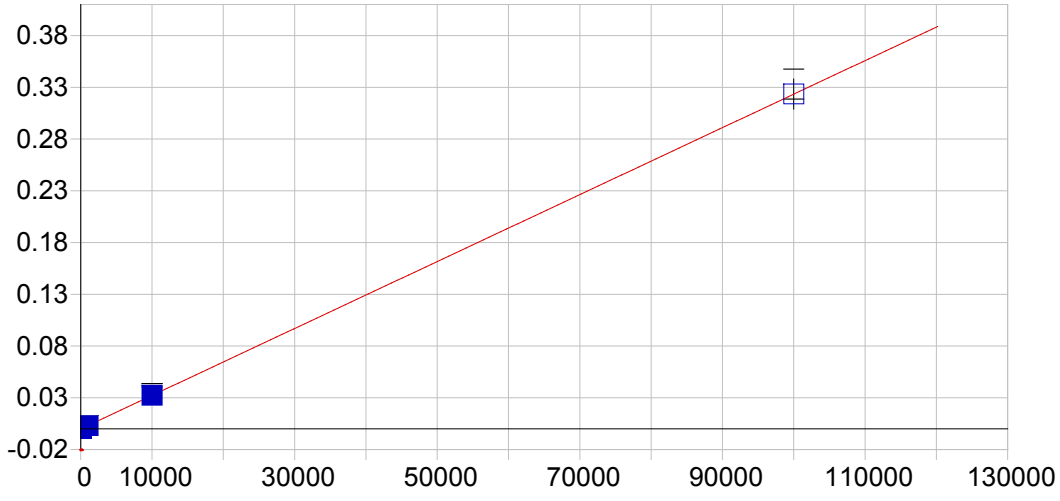


Cu 324.754 {104}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004237	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	2.649397		
Predicted MQL:	8.831322		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00552	.006	.000	.00424	.000	1
CalibStd=100	1000.0	960.03	-40.0	-4.00	.01902	.000	1
CalibStd=100	100.00	96.002	-4.00	-4.00	.00572	.000	1
CalibStd=100	10000.	10270.	270.	2.70	.16244	.008	1
CalibStd-100	100000.	99774.	-226.	-.226	1.5414	.053	1

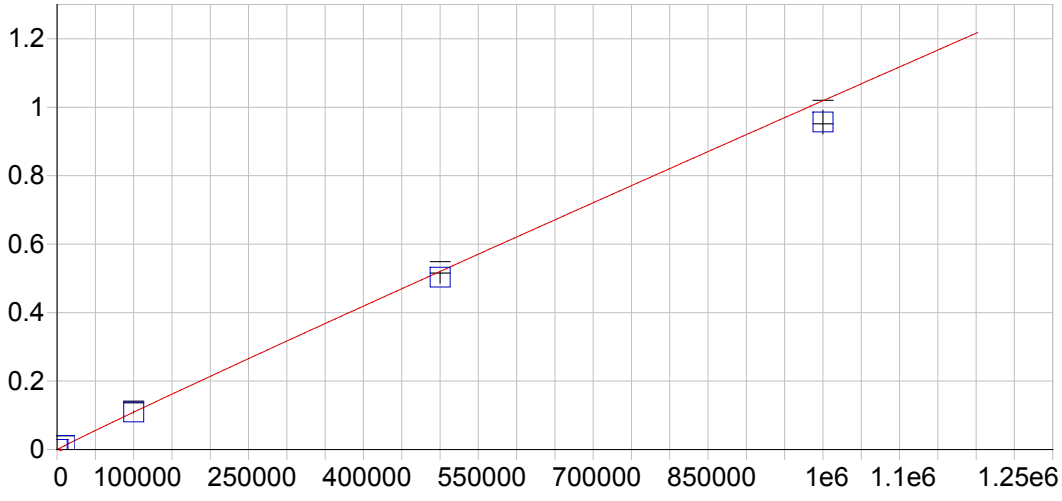


Cu 327.396 {103}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000086	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	14.479566		
Predicted MQL:	48.265220		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00578	-.006	.000	-.00009	.000	1
CalibStd=20	20.000	28.521	8.52	42.6	.00001	.000	1
CalibStd=50	50.000	47.926	-2.07	-4.15	.00007	.000	1
CalibStd=100	100.00	96.013	-3.99	-3.99	.00022	.000	1
CalibStd=100	1000.0	942.54	-57.5	-5.75	.00296	.000	1
CalibStd=100	10000.	10013.	13.4	.134	.03230	.002	1
CalibStd-100	100000.	100040.	41.6	.042	.32353	.014	1

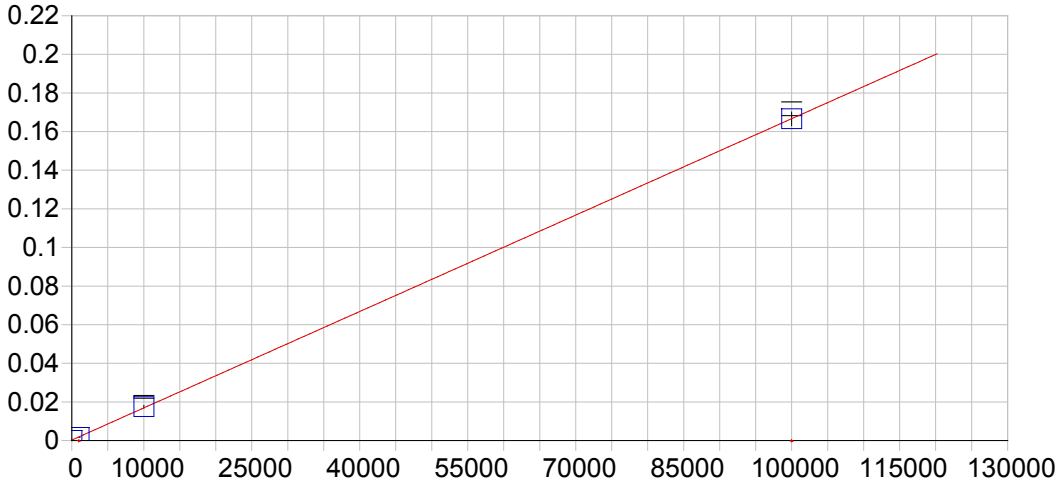


Fe 234.349 {144}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000017	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.970000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	6.028112		
Predicted MQL:	20.093707		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.11461	.115	.000	.00002	.000	1
CalibStd=100	10000.	9765.5	-235.	-2.35	.01145	.001	1
CalibStd=500	500000.	483020.	-17000.	-3.40	.50305	.017	1
CalibStd-100	1000000.	937010.	-63000.	-6.30	.95664	.034	1
CalibStd=100	1000.0	859.57	-140.	-14.0	.00110	.000	1
CalibStd-100	100000.	100220.	221.	.221	.10943	.003	1

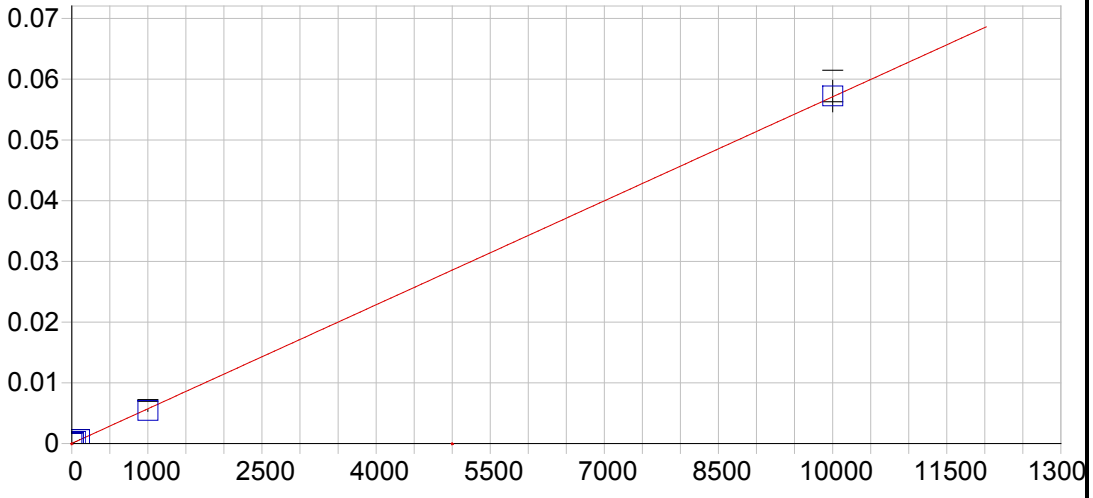


Fe 239.562 {141}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000256	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000472		
Predicted MDL:	5.851085		
Predicted MQL:	19.503615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-148.23	-148.	.000	.00001	.000	1
CalibStd=100	1000.0	843.52	-156.	-15.6	.00166	.000	1
CalibStd=100	10000.	10337.	337.	3.37	.01746	.001	1
CalibStd-100	100000.	99968.	-32.1	-.032	.16664	.004	1

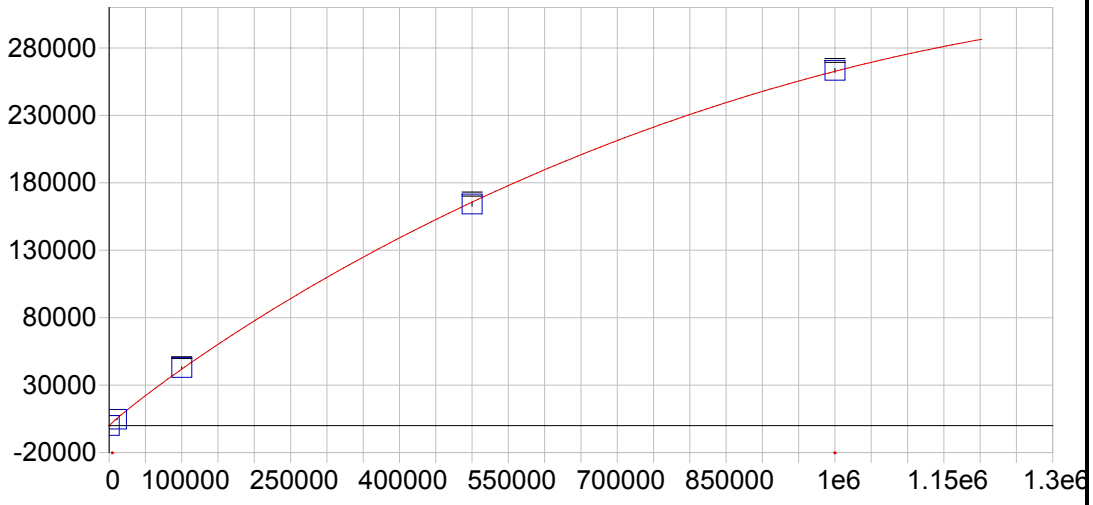


Fe 259.940 {130}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000018	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999568	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	3.290878		
Predicted MQL:	10.969594		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01407	-.014	.000	.00002	.000	1
CalibStd=100	1000.0	950.72	-49.3	-4.93	.00544	.000	1
CalibStd=50	50.000	57.274	7.27	14.5	.00034	.000	1
CalibStd=100	100.00	109.22	9.22	9.22	.00064	.000	1
CalibStd=20	20.000	30.258	10.3	51.3	.00019	.000	1
CalibStd=100	10000.	10023.	22.5	.225	.05723	.003	1

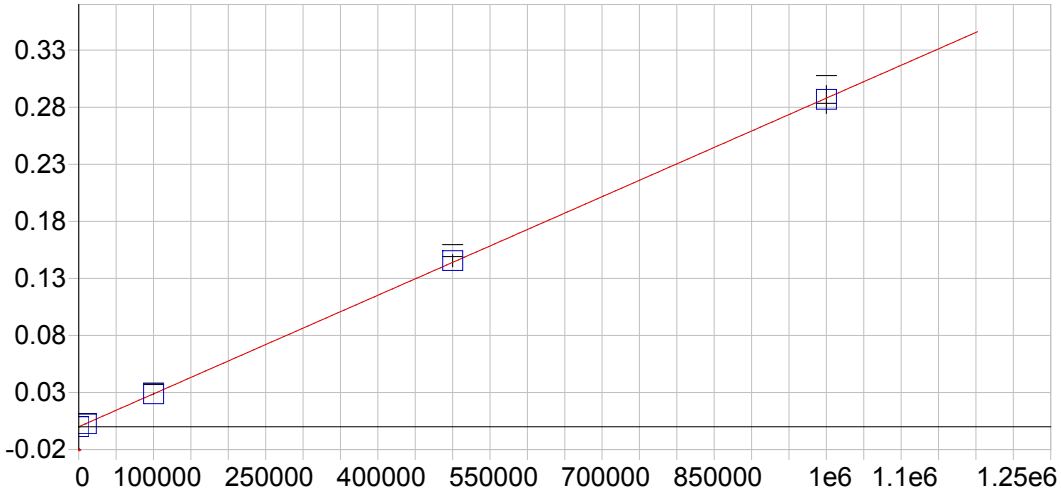


Mg 202.582 {466}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-6.636047	Re-Slope:	1.000000
A1 (Gain):	0.865878	Y-int:	0.000000
A2 (Curvature):	-0.000001		
n (Exponent):	0.940000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	34.081387		
Predicted MDL:	1.028446		
Predicted MQL:	3.428153		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.19499	.195	.000	-6.4498	.756	1
CalibStd=500	500000.	494240.	-5760.	-1.15	164220.	1500.	1
CalibStd=100	10000.	9420.4	-580.	-5.80	4686.1	47.2	1
CalibStd-100	1000000.	1004800.	4760.	.476	263340.	1460.	1
CalibStd-100	100000.	102800.	2800.	2.80	42932.	638.	1

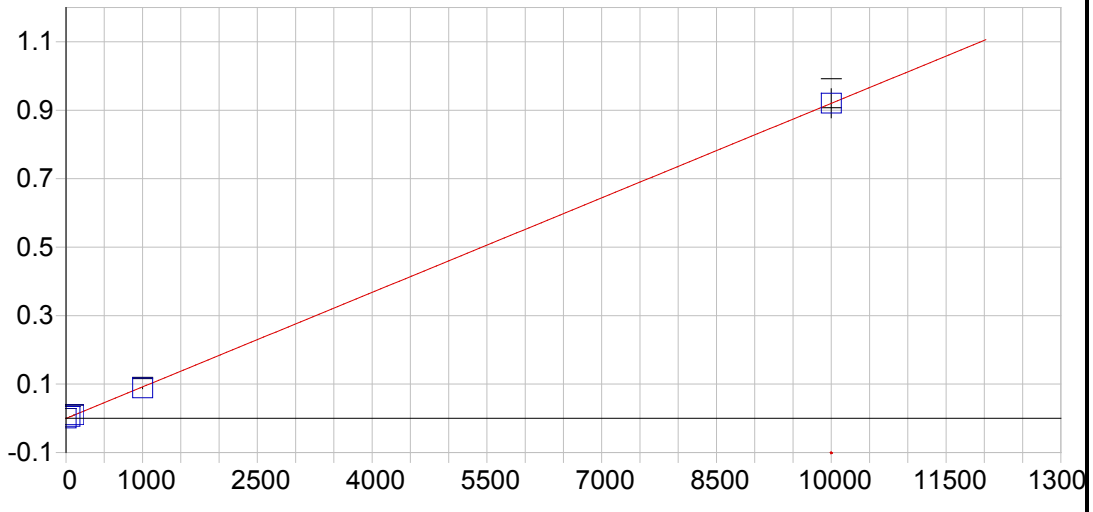


Mg 279.079 {121}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	40.313113		
Predicted MQL:	134.377043		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.1361	1.14	.000	.00000	.000	1
CalibStd=500	500000.	505300.	5300.	1.06	.14550	.005	1
CalibStd=100	10000.	8799.1	-1200.	-12.0	.00253	.000	1
CalibStd-100	1000000.	995910.	-4090.	-.409	.28679	.012	1
CalibStd-100	100000.	99998.	-2.20	-.002	.02879	.001	1

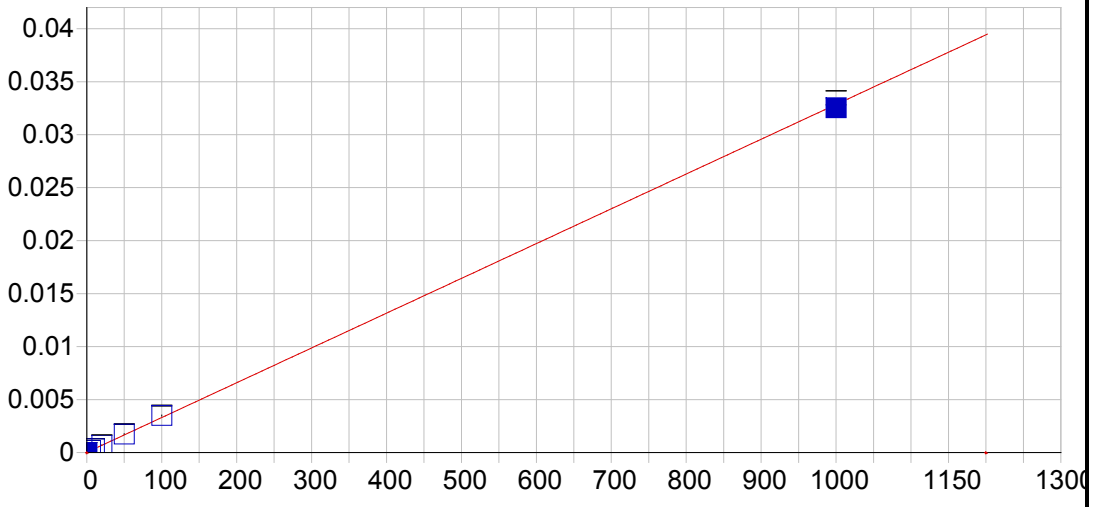


Mg 280.270 {120}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000317	Re-Slope:	1.000000
A1 (Gain):	0.000092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.002065		
Predicted MDL:	0.144545		
Predicted MQL:	0.481815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	10.624	10.6	.000	.00066	.000	1
CalibStd=100	1000.0	965.69	-34.3	-3.43	.08856	.002	1
CalibStd=100	10000.	10003.	3.27	.033	.92033	.042	1
CalibStd=100	100.00	111.16	11.2	11.2	.00991	.000	1
CalibStd=50	50.000	59.252	9.25	18.5	.00514	.000	1

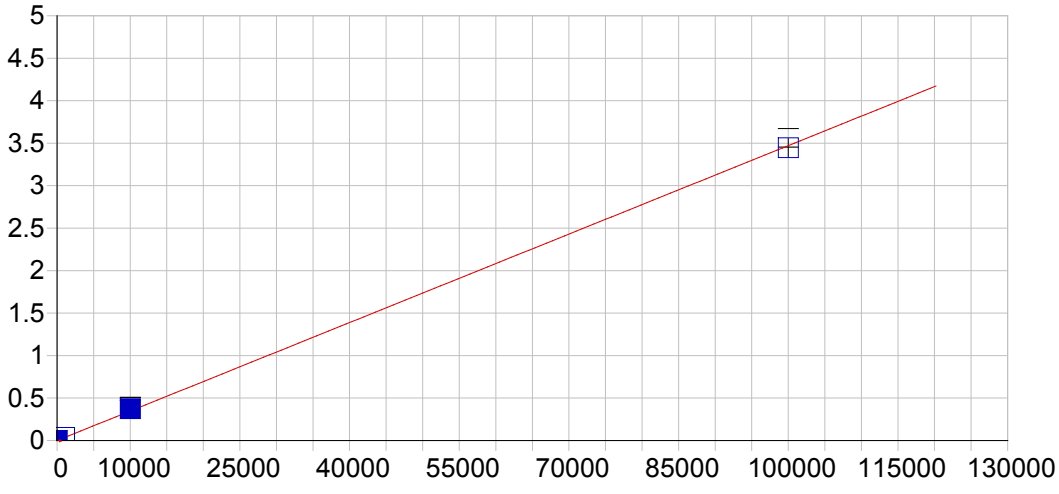


Mn 257.610 {131}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000033	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999702	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.421604		
Predicted MQL:	1.405348		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00155	-.002	.000	.00002	.000	1
CalibStd=10	10.000	10.135	.135	1.35	.00035	.000	1
CalibStd=50	50.000	52.252	2.25	4.50	.00174	.000	1
CalibStd=20	20.000	21.101	1.10	5.51	.00071	.000	1
CalibStd=100	100.00	105.77	5.77	5.77	.00349	.000	1
CalibStd=5	5.0000	5.7400	.740	14.8	.00021	.000	1
CalibStd=100	1000.0	990.00	-10.0	-1.00	.03252	.001	1

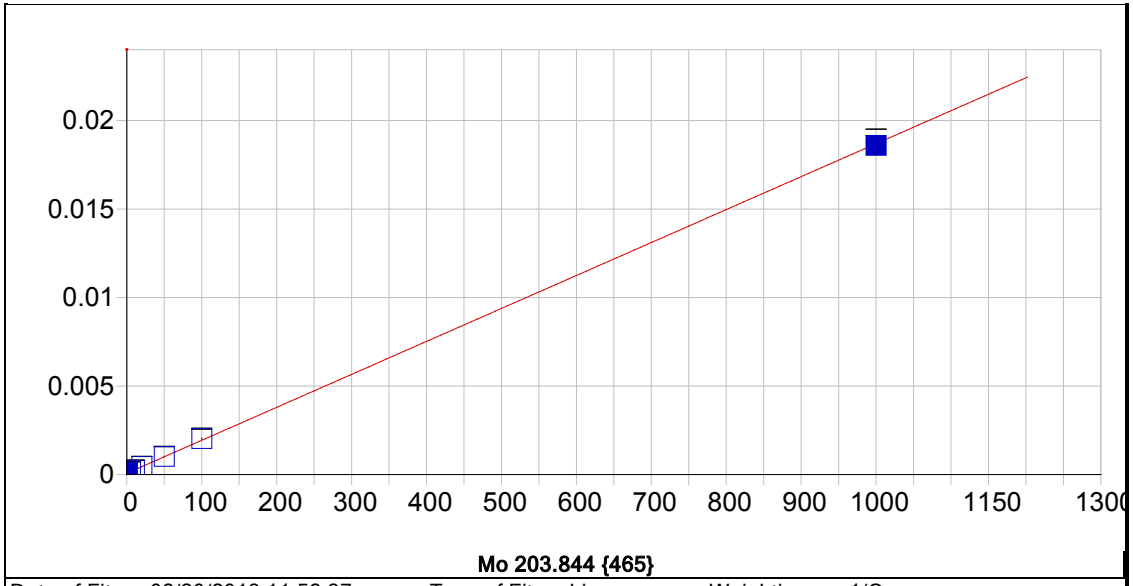


Mn 259.373 {130}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999728	Status:	OK.
Std Error of Est:	0.000381		
Predicted MDL:	0.645187		
Predicted MQL:	2.150622		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.08850	-.089	.000	.00003	.000	1
CalibStd=100	10000.	10736.	736.	7.36	.37317	.018	1
CalibStd-100	100000.	99241.	-759.	-.759	3.4450	.109	1
CalibStd=100	1000.0	1022.5	22.5	2.25	.03553	.001	1

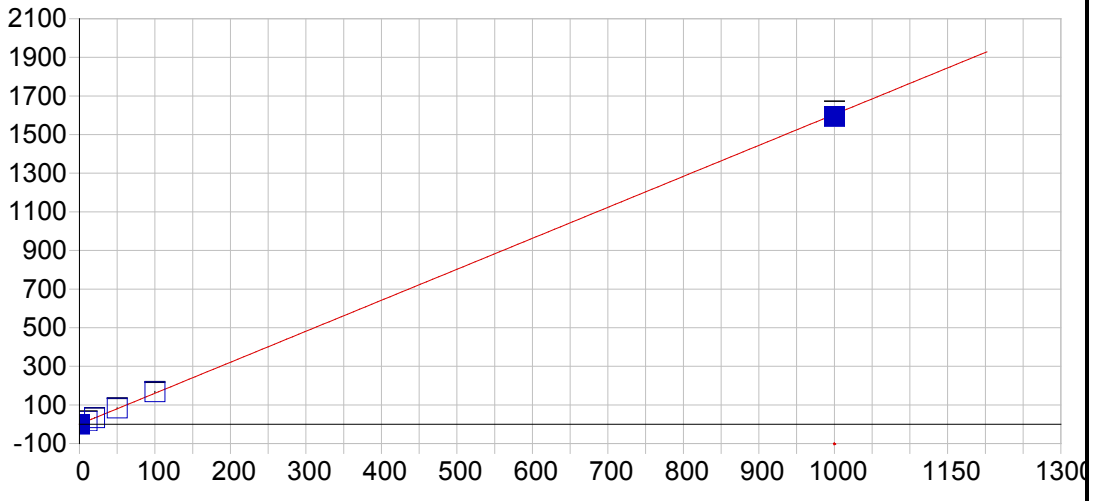


Mo 203.844 {465}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000072	Re-Slope:	1.000000
A1 (Gain):	0.000019	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999822	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.571809		
Predicted MQL:	1.906029		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00005	.000	.000	.00007	.000	1
CalibStd=50	50.000	50.776	.776	1.55	.00102	.000	1
CalibStd=1	1.0000	1.1327	.133	13.3	.00009	.000	1
CalibStd=20	20.000	20.591	.591	2.96	.00046	.000	1
CalibStd=10	10.000	9.7228	-.277	-2.77	.00025	.000	1
CalibStd=100	100.00	104.90	4.90	4.90	.00203	.000	1
CalibStd=5	5.0000	4.2981	-.702	-14.0	.00015	.000	1
CalibStd=100	1000.0	994.58	-5.42	-.542	.01859	.000	1

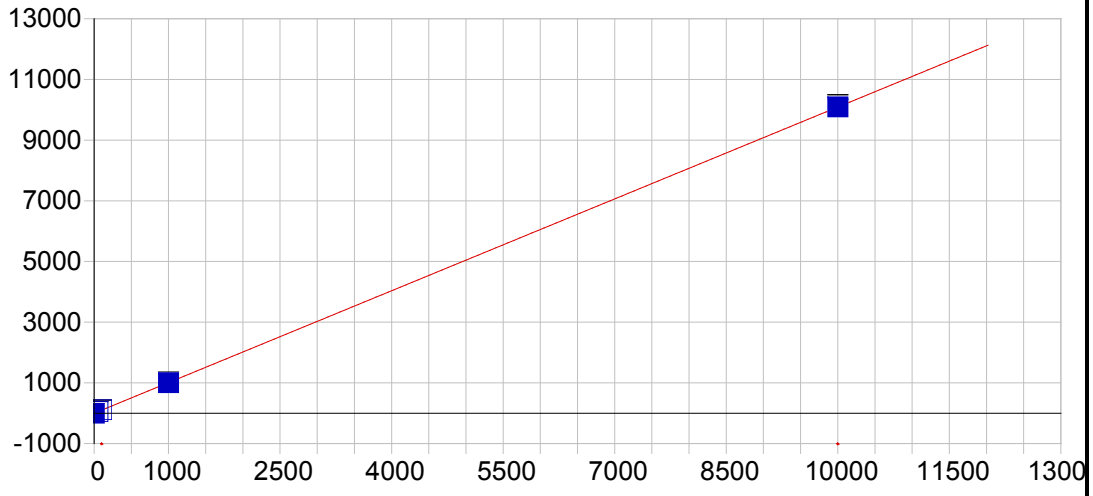


Mo 202.030 {467}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.013315	Re-Slope:	1.000000
A1 (Gain):	1.604725	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999862	Status:	OK.
Std Error of Est:	0.112203		
Predicted MDL:	0.444931		
Predicted MQL:	1.483104		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00148	-.001	.000	-.01569	.384	1
CalibStd=50	50.000	51.803	1.80	3.61	83.117	2.00	1
CalibStd=20	20.000	20.657	.657	3.28	33.135	.484	1
CalibStd=10	10.000	10.447	.447	4.47	16.752	.049	1
CalibStd=100	100.00	104.13	4.13	4.13	167.08	3.01	1
CalibStd=100	1000.0	992.97	-7.03	-.703	1593.4	27.6	1

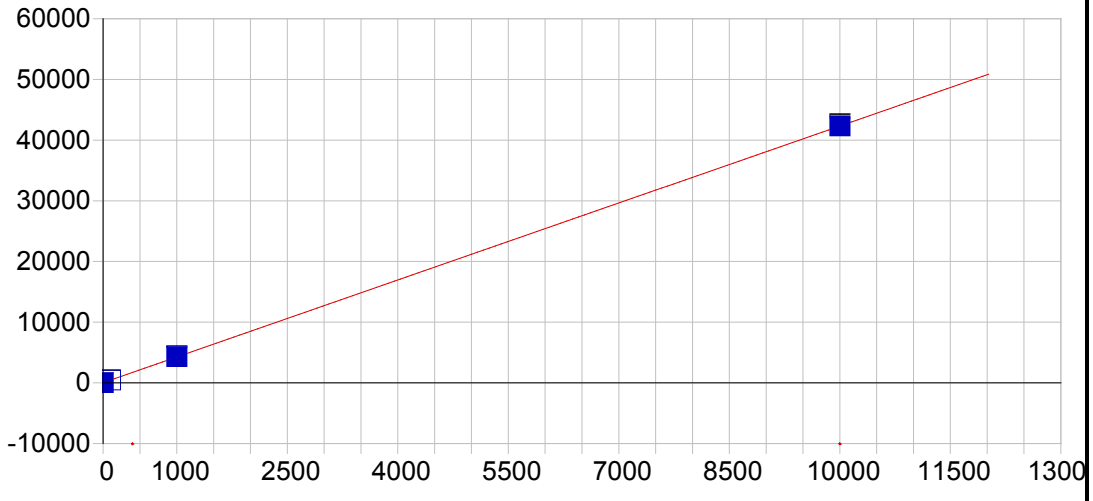


Mo 204.598 {465}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.312371	Re-Slope:	1.000000
A1 (Gain):	1.008919	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	5.201663		
Predicted MDL:	0.690733		
Predicted MQL:	2.302444		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03482	.035	.000	.34750	.580	1
CalibStd=100	1000.0	992.76	-7.24	-.724	1001.9	19.1	1
CalibStd=100	10000.	10001.	.667	.007	10090.	74.9	1
CalibStd=50	50.000	51.616	1.62	3.23	52.388	1.94	1
CalibStd=100	100.00	104.92	4.92	4.92	106.17	2.81	1

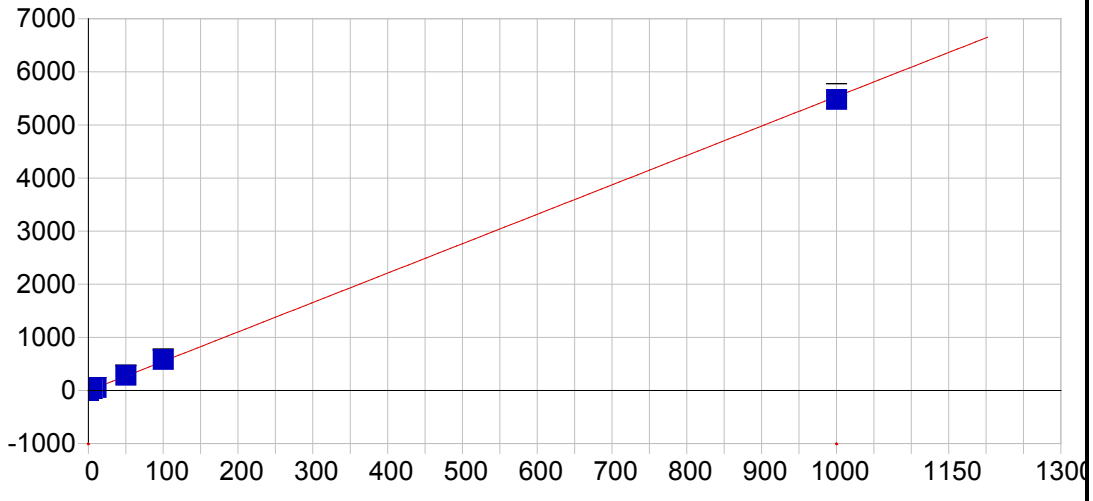


Ni 221.647 {452}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	41.439237	Re-Slope:	1.000000
A1 (Gain):	4.228194	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	46.257364		
Predicted MDL:	0.331921		
Predicted MQL:	1.106402		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-9.9275	-9.93	.000	-.53633	.480	1
CalibStd=100	10000.	9998.8	-1.17	-.012	42313.	325.	1
CalibStd=100	100.00	99.311	-.689	-.689	461.34	8.25	1
CalibStd=100	1000.0	1011.8	11.8	1.18	4318.9	87.4	1

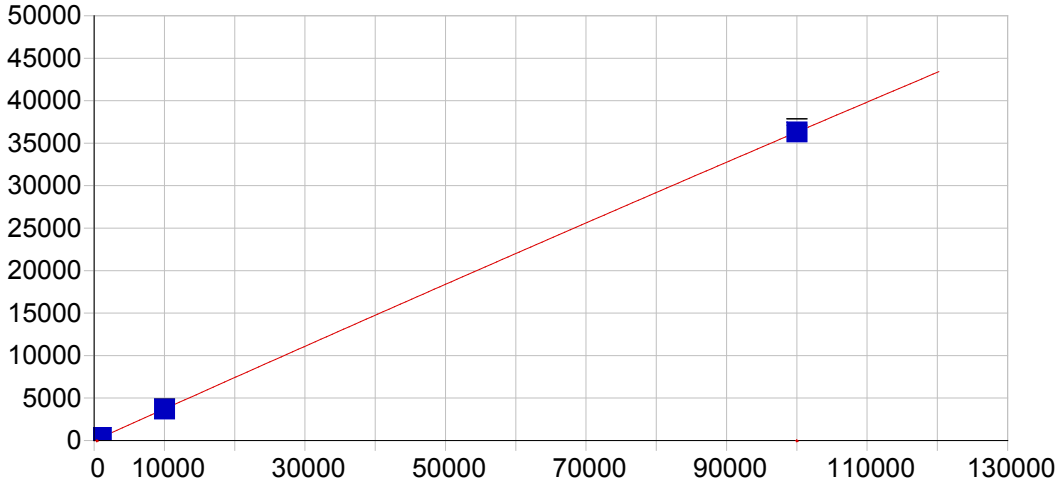


Ni 231.604 {445}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-6.321117	Re-Slope:	1.000000
A1 (Gain):	5.539708	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999646	Status:	OK.
Std Error of Est:	0.435185		
Predicted MDL:	0.329834		
Predicted MQL:	1.099447		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00188	-.002	.000	-6.3315	1.12	1
CalibStd=50	50.000	52.354	2.35	4.71	283.68	5.06	1
CalibStd=10	10.000	10.788	.788	7.88	53.437	.802	1
CalibStd=100	100.00	105.89	5.89	5.89	580.24	10.1	1
CalibStd=5	5.0000	6.0065	1.01	20.1	26.951	1.34	1
CalibStd=100	1000.0	989.96	-10.0	-1.00	5477.4	111.	1

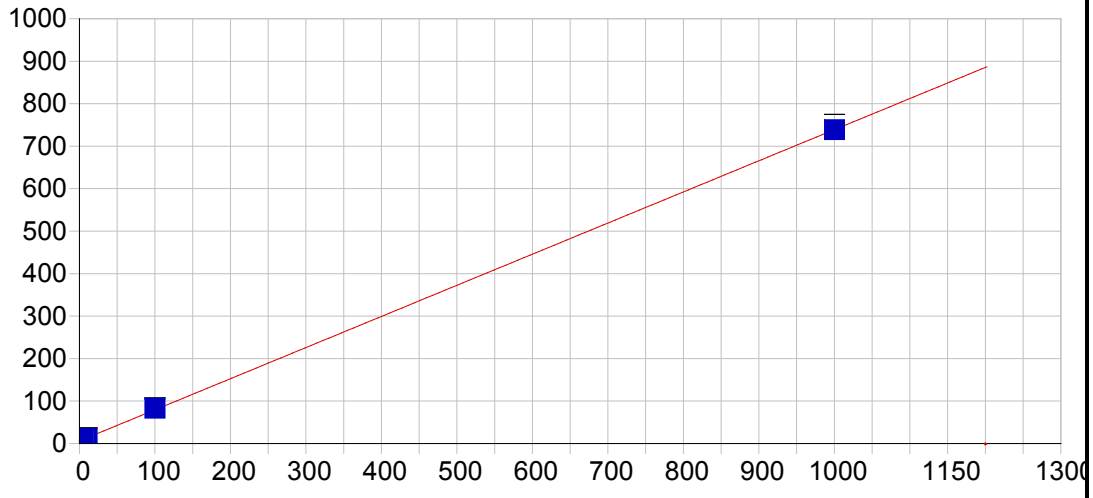


Pb 216.999 {455}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	1.984025	Re-Slope:	1.000000
A1 (Gain):	0.372434	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.395402		
Predicted MDL:	2.867784		
Predicted MQL:	9.559279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01823	-.018	.000	1.9772	.218	1
CalibStd=100	1000.0	1044.9	44.9	4.49	391.65	8.74	1
CalibStd=100	10000.	9934.4	-65.6	-.656	3698.8	27.3	1
CalibStd-100	100000.	100010.	6.39	.006	36309.	370.	1
CalibStd=100	100.00	114.39	14.4	14.4	44.585	1.78	1

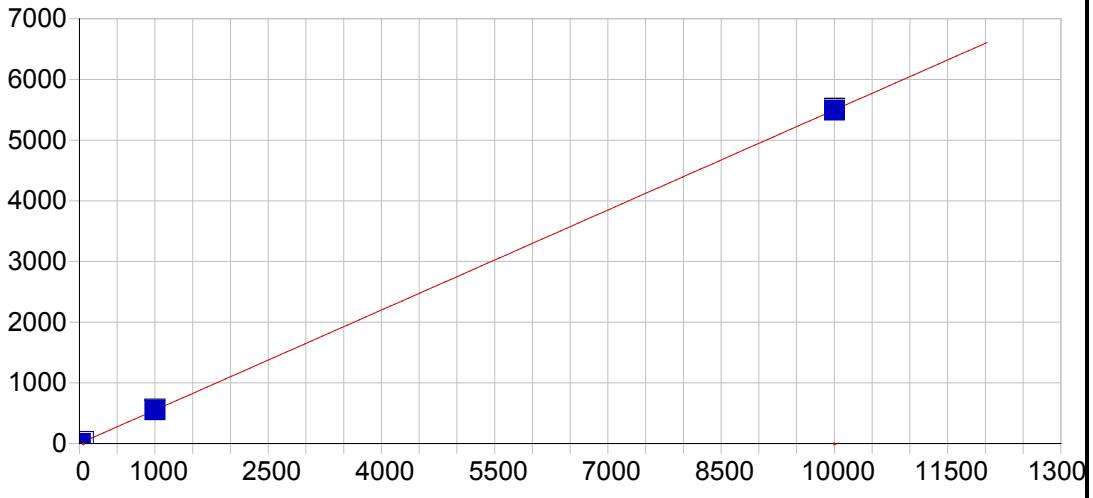


Pb 220.353 {453}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	6.088280	Re-Slope:	1.000000
A1 (Gain):	0.732806	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	2.409235		
Predicted MDL:	1.535399		
Predicted MQL:	5.117996		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.3419	-2.34	.000	4.3721	.460	1
CalibStd=10	10.000	8.6503	-1.35	-13.5	12.427	.611	1
CalibStd=100	100.00	104.93	4.93	4.93	82.982	1.81	1
CalibStd=5	5.0000	4.2367	-.763	-15.3	9.1930	.606	1
CalibStd=100	1000.0	999.52	-.476	-.048	738.52	12.9	1

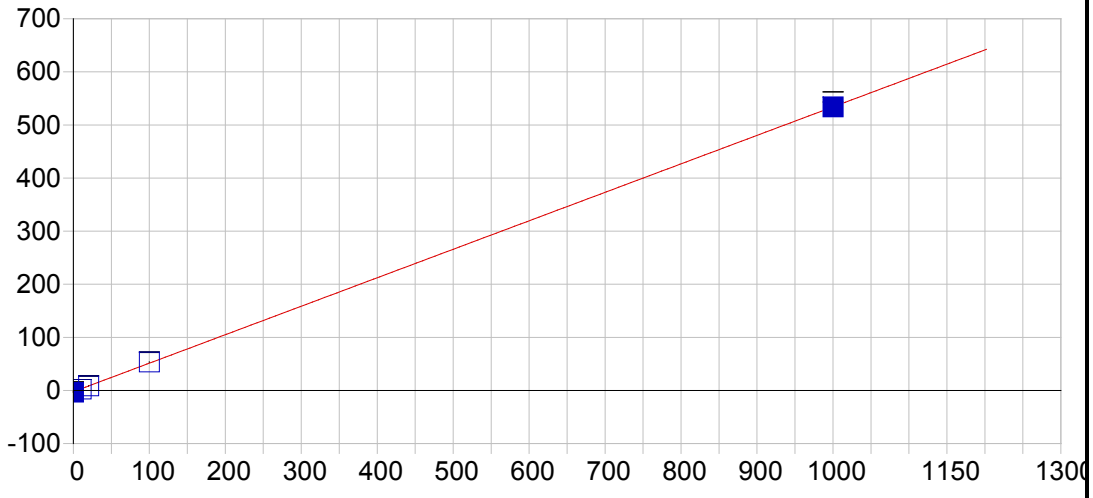


Sb 206.833 {463}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.453584	Re-Slope:	1.000000
A1 (Gain):	0.549517	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.034883		
Predicted MDL:	1.488111		
Predicted MQL:	4.960369		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00028	.000	.000	1.4534	.445	1
CalibStd=100	1000.0	1005.5	5.49	.549	554.01	11.1	1
CalibStd=10	10.000	9.6160	-.384	-3.84	6.7377	.554	1
CalibStd=50	50.000	53.086	3.09	6.17	30.625	.806	1
CalibStd=100	10000.	9991.8	-8.19	-.082	5492.3	30.8	1

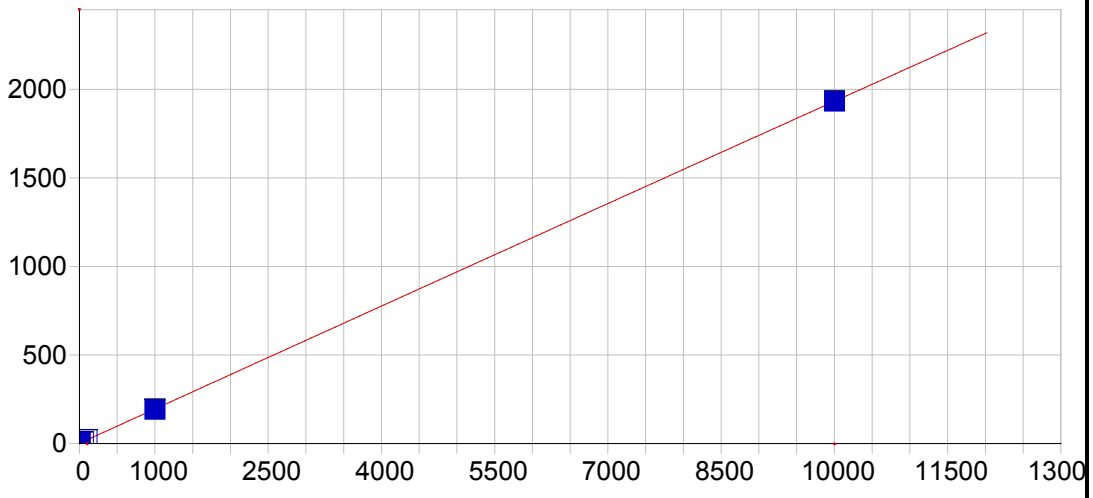


Sb 217.581 {455}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-2.317605	Re-Slope:	1.000000
A1 (Gain):	0.536325	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	1.343479		
Predicted MDL:	2.206190		
Predicted MQL:	7.353965		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.7921	-1.79	.000	-3.2787	.412	1
CalibStd=100	1000.0	999.65	-.347	-.035	533.77	9.49	1
CalibStd=20	20.000	20.087	.087	.433	8.4554	.697	1
CalibStd=10	10.000	8.4401	-1.56	-15.6	2.2090	.434	1
CalibStd=100	100.00	103.61	3.61	3.61	53.252	.745	1

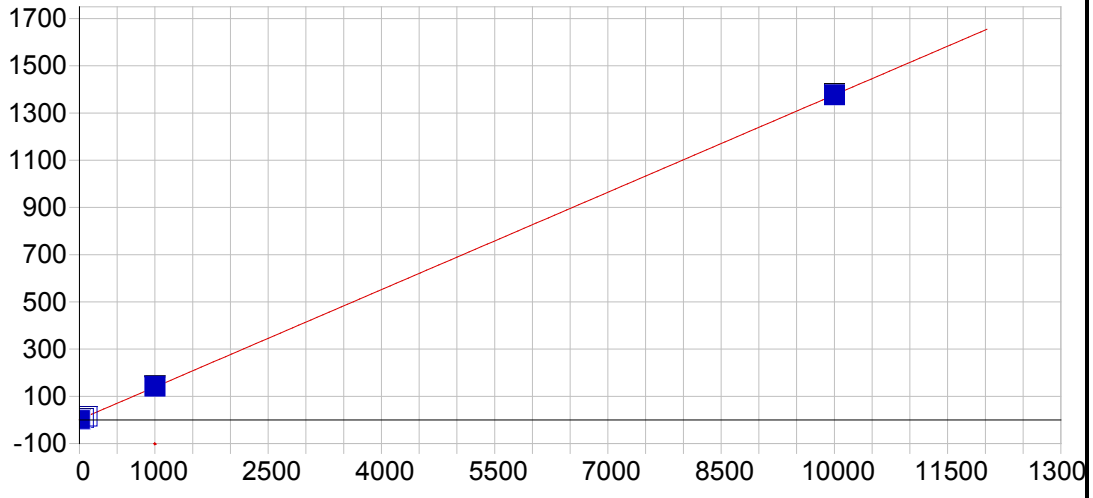


Se 196.090 {172}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	1.185412	Re-Slope:	1.000000
A1 (Gain):	0.194161	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999538	Status:	OK.
Std Error of Est:	0.087685		
Predicted MDL:	6.844781		
Predicted MQL:	22.815937		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00949	-.009	.000	1.1836	.331	1
CalibStd=50	50.000	46.549	-3.45	-6.90	10.223	.958	1
CalibStd=100	1000.0	984.79	-15.2	-1.52	192.25	2.37	1
CalibStd=10	10.000	19.566	9.57	95.7	4.9843	.407	1
CalibStd=100	100.00	107.63	7.63	7.63	22.082	1.61	1
CalibStd=100	10000.	10001.	1.47	.015	1932.2	4.67	1

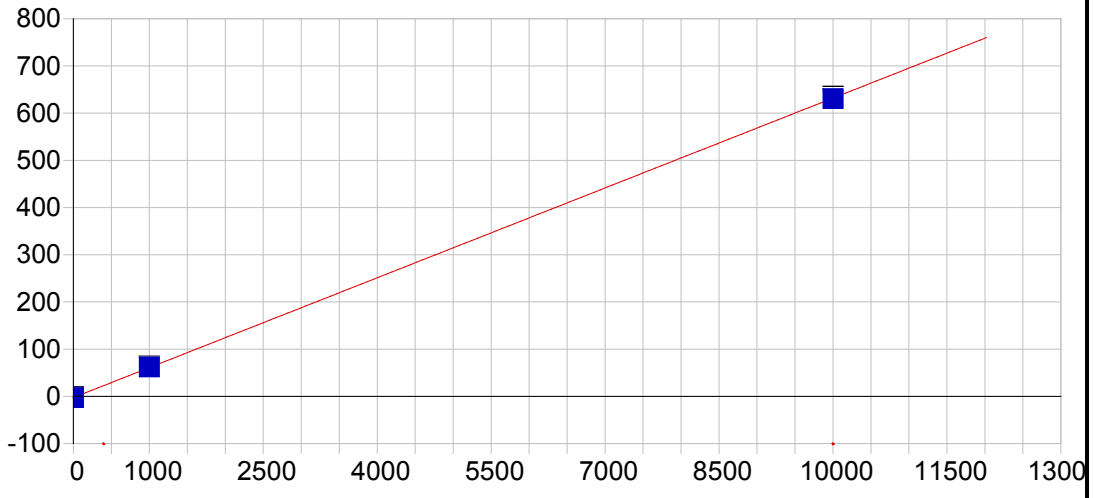


Se 196.090 {472}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	1.893468	Re-Slope:	1.000000
A1 (Gain):	0.137502	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	2.174237		
Predicted MDL:	4.942057		
Predicted MQL:	16.473525		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-12.235	-12.2	.000	.21113	.442	1
CalibStd=50	50.000	43.531	-6.47	-12.9	7.8790	.394	1
CalibStd=100	1000.0	1023.4	23.4	2.34	142.57	2.70	1
CalibStd=10	10.000	-3.5504	-13.6	-136.	1.4053	.350	0
CalibStd=100	100.00	97.589	-2.41	-2.41	15.312	.441	1
CalibStd=100	10000.	9997.7	-2.28	-.023	1376.2	5.14	1

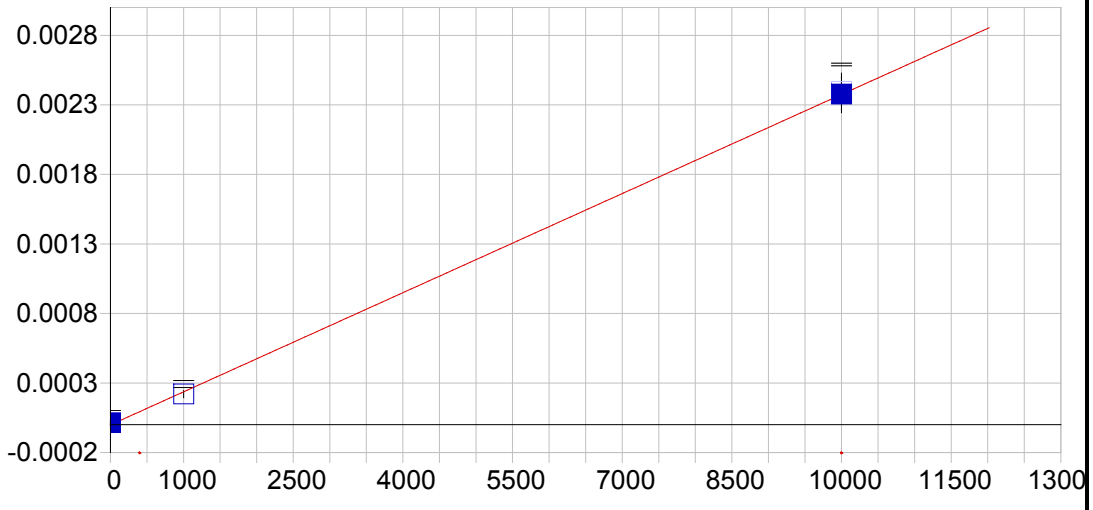


Se 206.279 {463}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-2.622657	Re-Slope:	1.000000
A1 (Gain):	0.063452	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.077978		
Predicted MDL:	18.317681		
Predicted MQL:	61.058938		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01926	-.019	.000	-2.6239	1.08	1
CalibStd=100	1000.0	1021.4	21.4	2.14	62.226	1.41	1
CalibStd=100	10000.	9978.6	-21.4	-.214	630.93	4.84	1

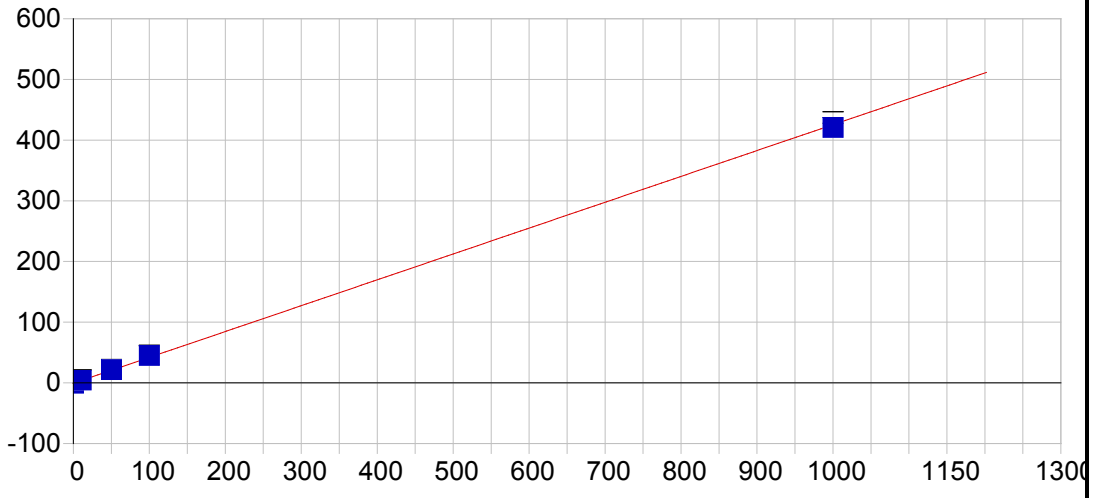


Tl 276.787 {122}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	108.071635		
Predicted MQL:	360.238782		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	60.256	60.3	.000	.00001	.000	1
CalibStd=100	1000.0	933.11	-66.9	-6.69	.00022	.000	1
CalibStd=100	10000.	10007.	6.63	.066	.00240	.000	1

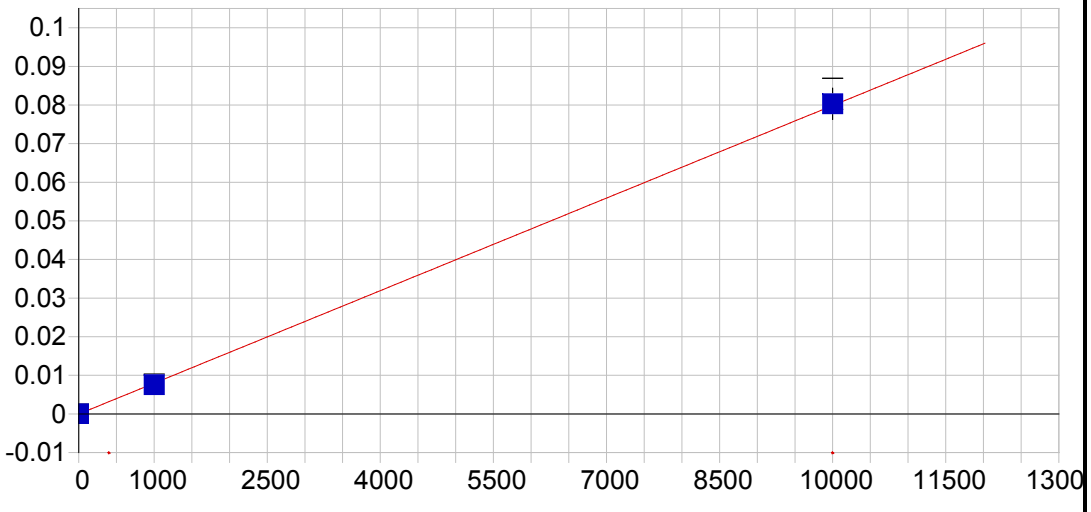


Tl 190.856 {477}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.678557	Re-Slope:	1.000000
A1 (Gain):	0.426126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.056756		
Predicted MDL:	1.369945		
Predicted MQL:	4.566483		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00291	-.003	.000	-.67980	.216	1
CalibStd=50	50.000	52.266	2.27	4.53	21.593	.376	1
CalibStd=100	1000.0	988.88	-11.1	-1.11	420.69	9.55	1
CalibStd=100	100.00	106.98	6.98	6.98	44.910	.519	1
CalibStd=10	10.000	11.873	1.87	18.7	4.3808	.391	1

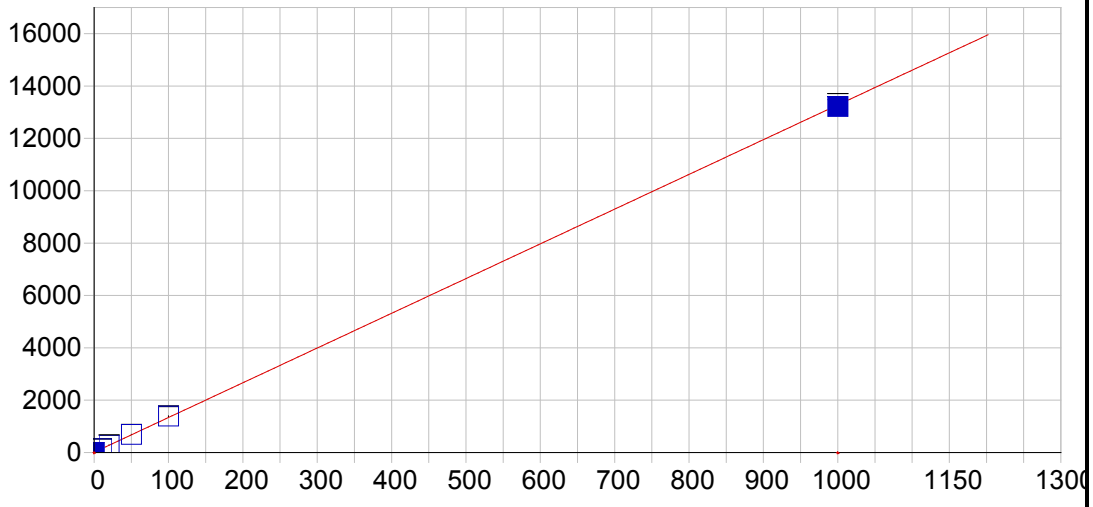


V 290.882 {116}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000034	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	4.732516		
Predicted MQL:	15.775053		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04863	.049	.000	-.00003	.000	1
CalibStd=100	1000.0	945.97	-54.0	-5.40	.00752	.000	1
CalibStd=100	10000.	10054.	54.0	.540	.08029	.004	1

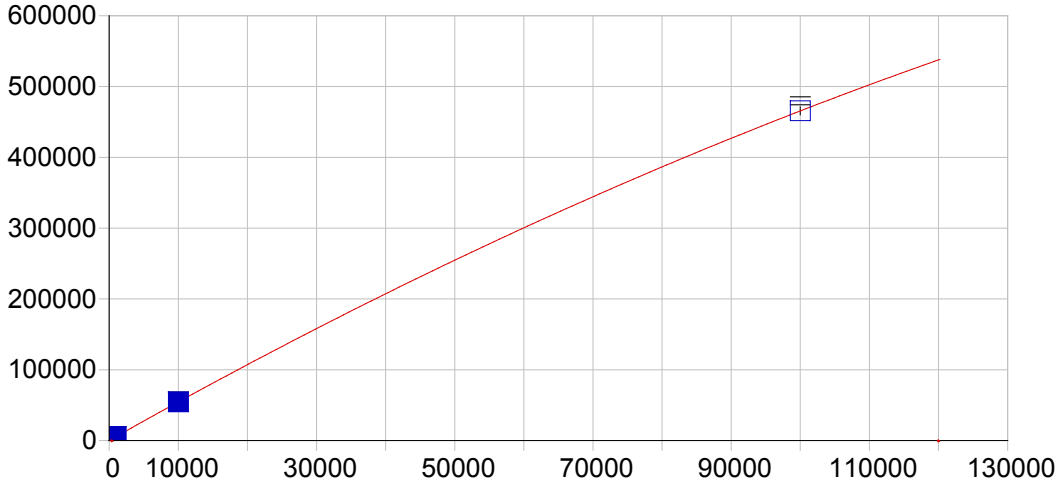


V 292.402 {115}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	12.208603	Re-Slope:	1.000000
A1 (Gain):	13.266022	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999909	Status:	OK.
Std Error of Est:	0.751426		
Predicted MDL:	0.524283		
Predicted MQL:	1.747611		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00046	.000	.000	12.202	5.34	1
CalibStd=50	50.000	51.083	1.08	2.17	689.87	3.14	1
CalibStd=100	1000.0	995.12	-4.88	-.488	13214.	114.	1
CalibStd=20	20.000	20.753	.753	3.77	287.52	6.54	1
CalibStd=10	10.000	9.5731	-.427	-4.27	139.21	4.27	1
CalibStd=100	100.00	103.47	3.47	3.47	1384.8	13.3	1

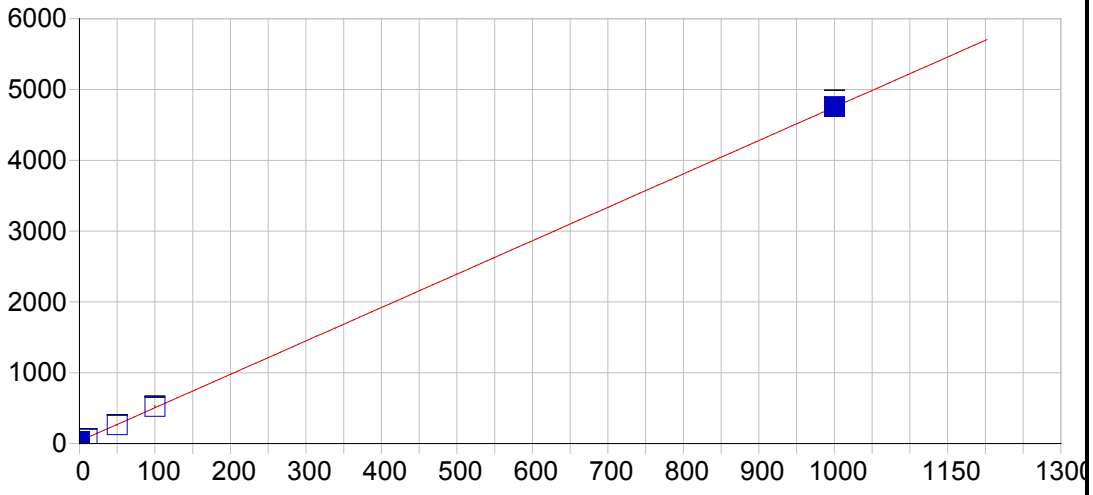


Zn 206.200 {463}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	21.625856	Re-Slope:	1.000000
A1 (Gain):	5.532341	Y-int:	0.000000
A2 (Curvature):	-0.000009		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.163115		
Predicted MQL:	0.543718		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10000.	.198	.002	54471.	347.	1
Blank	.00000	1.5497	1.55	.000	30.199	.642	1
CalibStd=100	1000.0	998.26	-1.74	-.174	5535.8	115.	1
CalibStd-100	100000.	100000.	-.003	.000	465570.	5590.	1

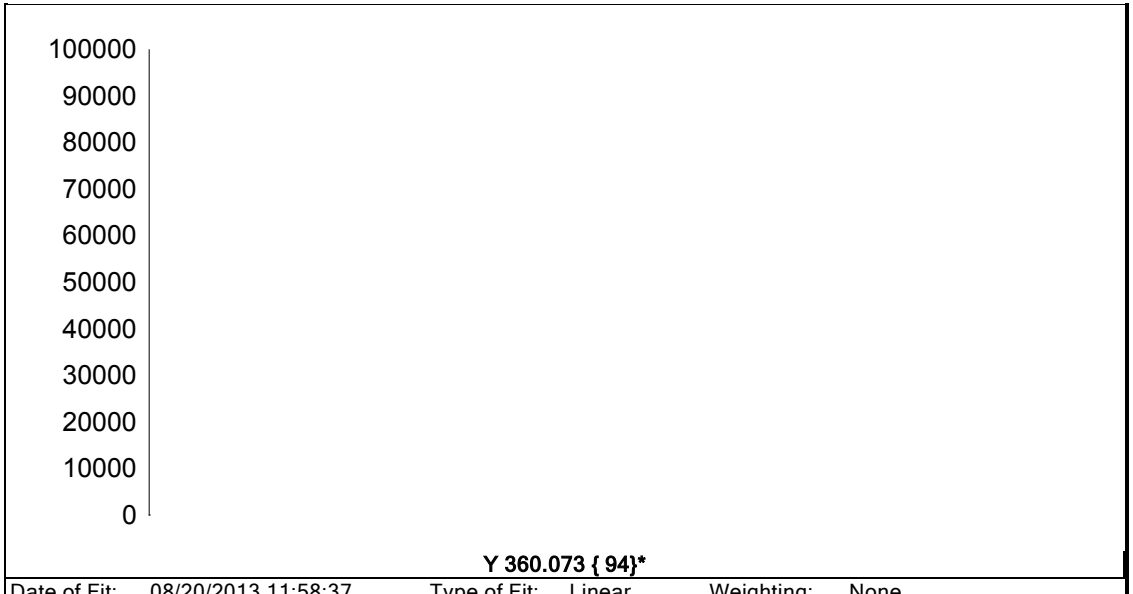


Zn 213.856 {458}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

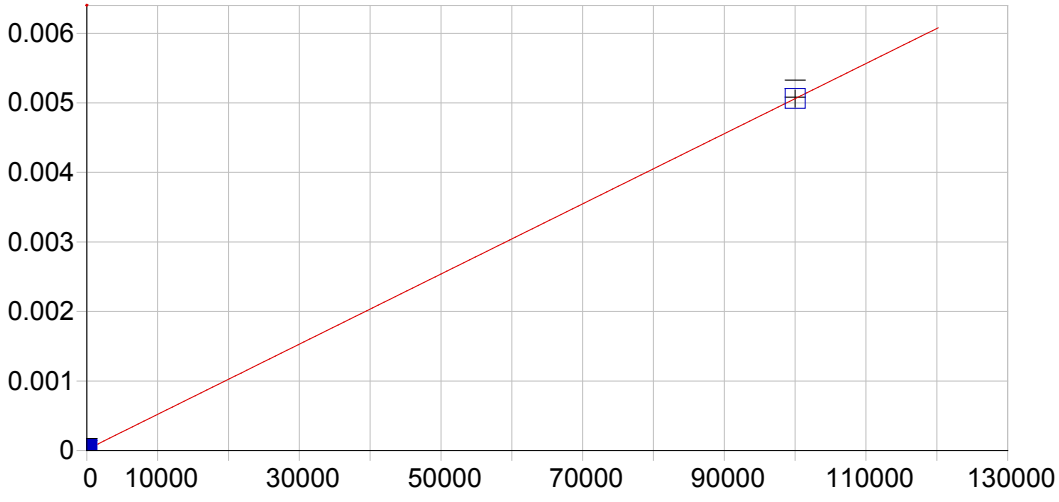
A0 (Offset):	33.965650	Re-Slope:	1.000000
A1 (Gain):	4.717760	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999463	Status:	OK.
Std Error of Est:	0.679999		
Predicted MDL:	0.146862		
Predicted MQL:	0.489539		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00325	.003	.000	33.981	.681	1
CalibStd=100	100.00	103.24	3.24	3.24	521.02	10.7	1
CalibStd=50	50.000	48.682	-1.32	-2.64	263.64	5.17	1
CalibStd=10	10.000	6.6750	-3.33	-33.3	65.457	.278	1
CalibStd=100	1000.0	1001.4	1.41	.141	4759.1	91.3	1



Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	89743.	251.	1

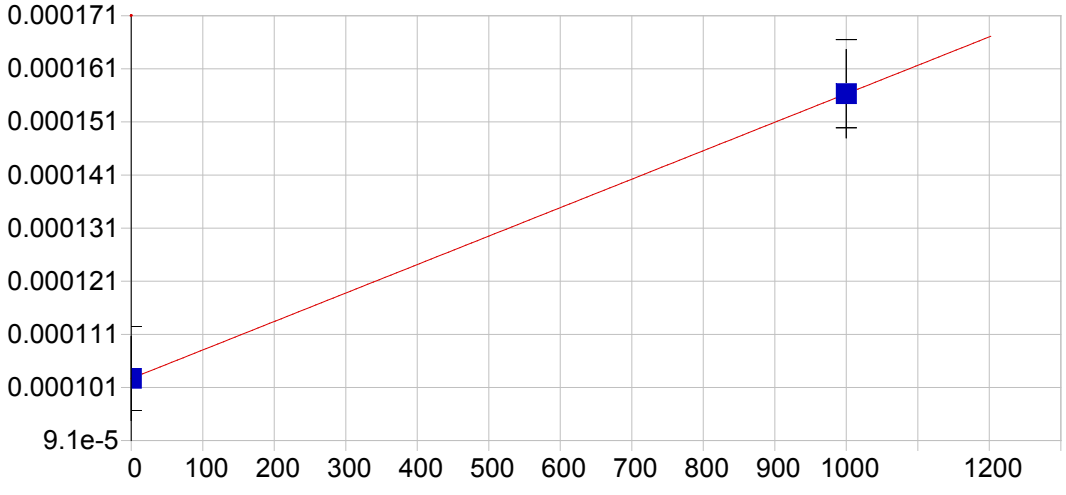


Na 330.298 {102}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	801.605118		
Predicted MQL:	2672.017060		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1
CalibStd-100	100000.	100000.	.000	.000	.00506	.000	1

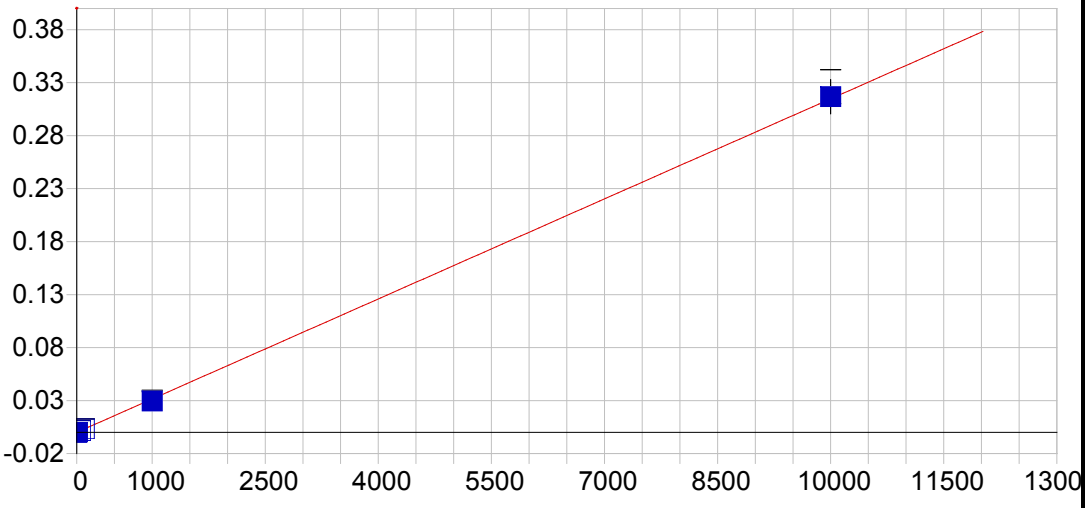


Si 251.611 {134}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000103	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	421.617851		
Predicted MQL:	1405.392835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00010	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00016	.000	1

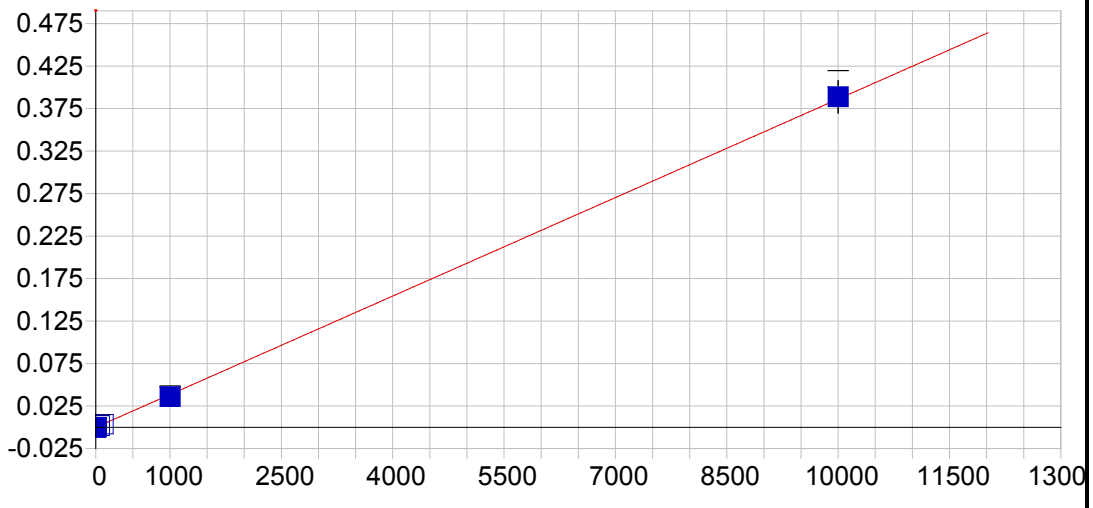


Ti 334.941 {101}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999803	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.021695		
Predicted MQL:	3.405651		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00028	.000	.000	-.00001	.000	1
CalibStd=10	10.000	10.357	.357	3.57	.00032	.000	1
CalibStd=100	100.00	100.62	.618	.618	.00316	.000	1
CalibStd=100	1000.0	937.39	-62.6	-6.26	.02950	.001	1
CalibStd=100	10000.	10062.	61.7	.617	.31674	.016	1
CalibStd=50	50.000	49.287	-.713	-1.43	.00154	.000	1
CalibStd=1	1.0000	1.2207	.221	22.1	.00003	.000	1
CalibStd=5	5.0000	5.4229	.423	8.46	.00016	.000	1

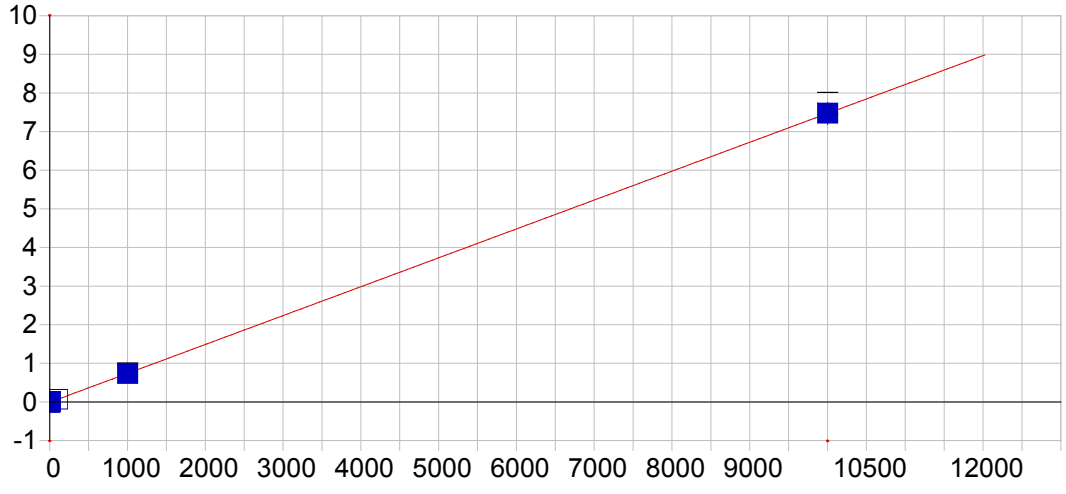


Ti 337.280 {100}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000108	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999747	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	1.144782		
Predicted MQL:	3.815939		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00079	-.001	.000	-.00011	.000	1
CalibStd=10	10.000	9.7154	-.285	-2.85	.00027	.000	1
CalibStd=100	100.00	99.518	-.482	-.482	.00374	.000	1
CalibStd=100	1000.0	933.24	-66.8	-6.68	.03594	.001	1
CalibStd=100	10000.	10066.	66.5	.665	.38877	.019	1
CalibStd=50	50.000	49.173	-.827	-1.65	.00179	.000	1
CalibStd=1	1.0000	1.6586	.659	65.9	-.00004	.000	1
CalibStd=5	5.0000	6.2163	1.22	24.3	.00013	.000	1

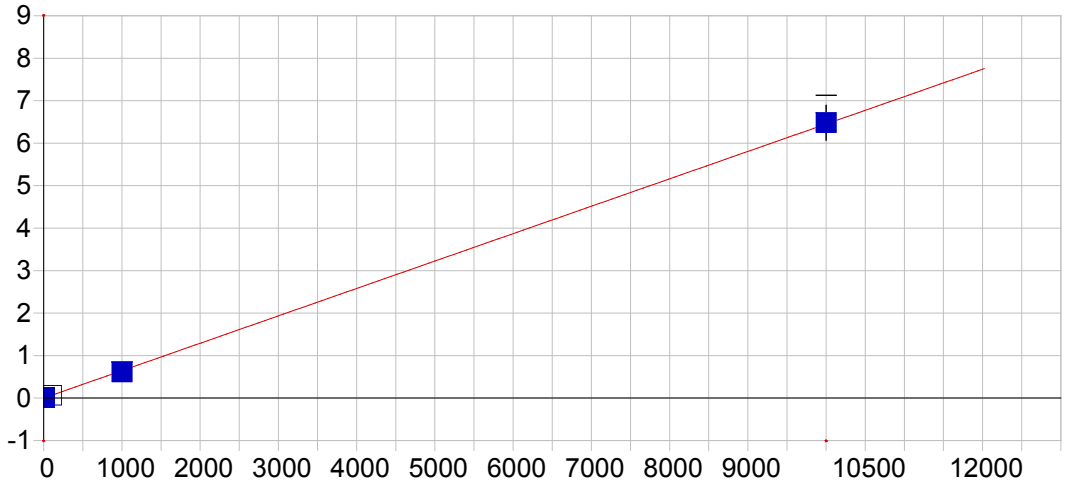


Sr 407.771 { 83}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.009223	Re-Slope:	1.000000
A1 (Gain):	0.000748	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.118091		
Predicted MQL:	0.393638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00022	.000	.000	-.00922	.000	1
CalibStd=1	1.0000	1.0788	.079	7.88	-.00842	.000	1
CalibStd=5	5.0000	5.2519	.252	5.04	-.00529	.000	1
CalibStd=10	10.000	10.434	.434	4.34	-.00142	.000	1
CalibStd=100	100.00	105.62	5.62	5.62	.06978	.001	1
CalibStd=100	1000.0	989.92	-10.1	-1.01	.73131	.014	1
CalibStd=100	10000.	10004.	3.70	.037	7.4743	.280	1

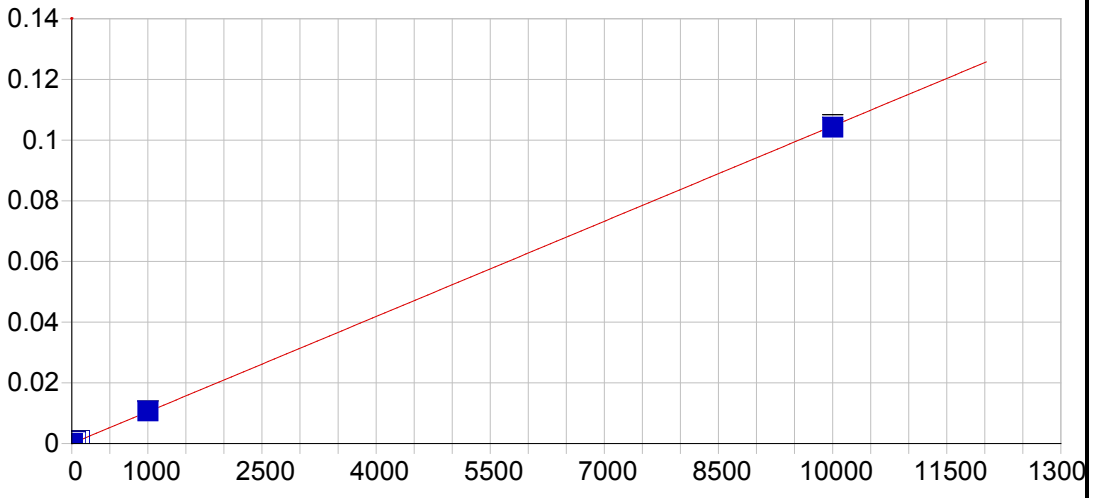


Sr 421.552 { 80}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000108	Re-Slope:	1.000000
A1 (Gain):	0.000645	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999879	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.108510		
Predicted MQL:	0.361701		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00010	.000	.000	-.00011	.000	1
CalibStd=1	1.0000	1.0792	.079	7.92	.00059	.000	1
CalibStd=5	5.0000	5.2405	.241	4.81	.00327	.000	1
CalibStd=10	10.000	10.008	.008	.080	.00635	.000	1
CalibStd=100	100.00	101.43	1.43	1.43	.06533	.001	1
CalibStd=100	1000.0	950.64	-49.4	-4.94	.61320	.012	1
CalibStd=100	10000.	10048.	47.6	.476	6.4821	.411	1

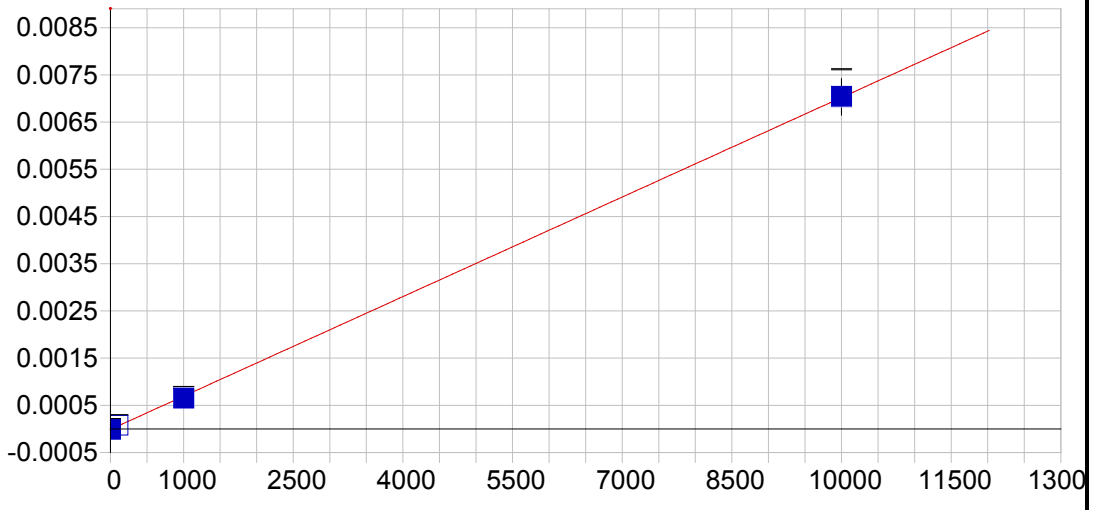


Sn 189.989 {477}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999917	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.583997		
Predicted MQL:	1.946658		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00178	-.002	.000	.00002	.000	1
CalibStd=100	10000.	9964.3	-35.7	-.357	.10426	.001	1
CalibStd=100	1000.0	1021.5	21.5	2.15	.01070	.000	1
CalibStd=100	100.00	109.49	9.49	9.49	.00116	.000	1
CalibStd=10	10.000	10.409	.409	4.09	.00012	.000	1
CalibStd=50	50.000	53.574	3.57	7.15	.00058	.000	1
CalibStd=5	5.0000	5.6579	.658	13.2	.00007	.000	1

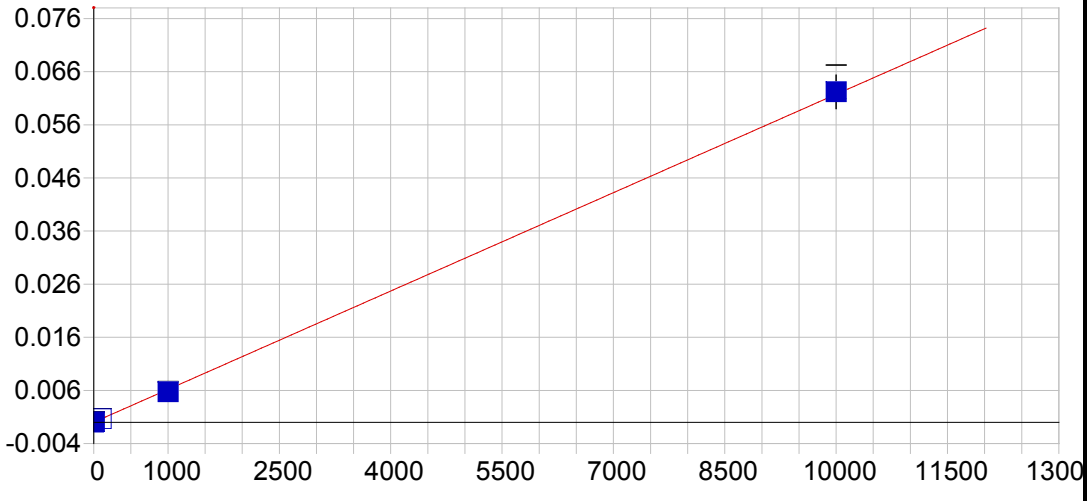


Sn 283.999 {119}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999543	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	31.567888		
Predicted MQL:	105.226292		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02014	-.020	.000	-.00001	.000	1
CalibStd=100	10000.	10033.	32.6	.326	.00702	.000	1
CalibStd=100	1000.0	941.63	-58.4	-5.84	.00065	.000	1
CalibStd=100	100.00	125.65	25.6	25.6	.00008	.000	1

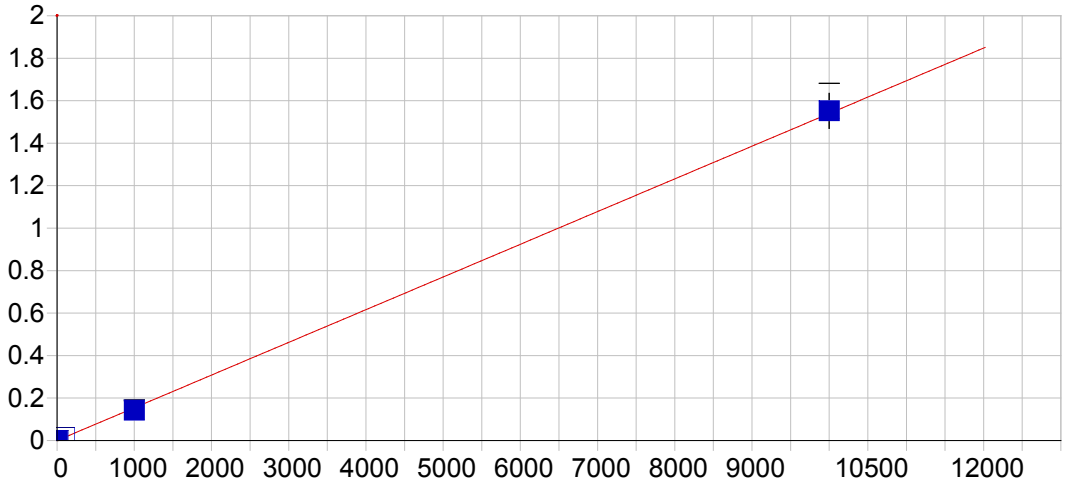


B 249.773 {135}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999731	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	3.029789		
Predicted MQL:	10.099296		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00043	.000	.000	.00001	.000	1
CalibStd=100	100.00	101.40	1.40	1.40	.00064	.000	1
CalibStd=10	10.000	10.094	.094	.940	.00008	.000	1
CalibStd=100	1000.0	926.25	-73.7	-7.37	.00573	.000	1
CalibStd=100	10000.	10072.	72.3	.723	.06221	.003	1



Li 670.784 { 50}

Date of Fit:	08/20/2013 11:58:37	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000280	Re-Slope:	1.000000
A1 (Gain):	0.000154	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999702	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.959214		
Predicted MQL:	3.197380		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00080	.001	.000	.00028	.000	1
CalibStd=10	10.000	9.9625	-.038	-.375	.00181	.000	1
CalibStd=100	100.00	99.329	-.671	-.671	.01557	.000	1
CalibStd=100	1000.0	922.46	-77.5	-7.75	.14230	.003	1
CalibStd=100	10000.	10078.	78.2	.782	1.5519	.083	1

Sample Name: Blank Acquired: 08/19/2013 11:04:27 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.889**	**-.001**	**.000**	**.810**	**-.266**	**-.283**	**31.9**	**-305.**	**.000**	**.000**	**.010**	**720.**
Stddev	2.27	.000	.00	.161	.517	.085	8.9	20.	.000	.00	.000	11.
%RSD	255.	8.46	53.6	19.9	194.	30.0	27.8	6.65	16.3	593.	.420	1.56

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-4.47**	**5.13**	**-.763**	**.000**	**1.88**	**.000**	**2.46**	**.004**	**.000**	**.000**	**.000**	**-6.45**
Stddev	.94	1.23	.407	.000	1.86	.000	.51	.000	.000	.000	.000	.76
%RSD	21.0	24.0	53.3	74.6	98.5	26.9	20.5	.792	46.3	89.6	64.2	11.7

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**-.016**	**.347**	**-.536**	**-6.33**	**1.98**	**4.37**	**1.45**	**-3.28**	**1.18**
Stddev	.000	.000	.000	.384	.580	.480	1.12	.22	.46	.45	.41	.33
%RSD	4.21	95.3	71.8	2450.	167.	89.5	17.6	11.0	10.5	30.6	12.6	28.0

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.211**	**-2.62**	**.000**	**-.680**	**.000**	**12.2**	**30.2**	**34.0**
Stddev	.442	1.08	.000	.216	.00	5.3	.6	.7
%RSD	209.	41.2	114.	31.8	114.	43.8	2.13	2.00

Int. Std.	Y_3600
Units	Cts/S
Avg	**89743.**
Stddev	251.
%RSD	.27952

Sample Name: CalibStd=0.25 Acquired: 08/19/2013 11:08:08 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	5.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**89856.**
Stddev	379.
%RSD	.42232

Sample Name: CalibStd=0.5 Acquired: 08/19/2013 11:11:58 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.230**
Stddev	.000	.518
%RSD	2.50	226.

Int. Std.	Y_3600
Units	Cts/S
Avg	**89692.**
Stddev	574.
%RSD	.64016

Sample Name: CalibStd=1 Acquired: 08/19/2013 11:15:50 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Cd2265
Units	Cts/S	Cts/S
Avg	**2.43**	**4.41**
Stddev	2.82	.63
%RSD	116.	14.3

Int. Std.	Y_3600
Units	Cts/S
Avg	**89665.**
Stddev	151.
%RSD	.16831

Sample Name: CalibStd=5 Acquired: 08/19/2013 11:19:39 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cu2247	Mn2576	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.61**	**232.**	**.001**	**37.2**	**36.6**	**16.5**	**.000**	**27.0**	**9.19**
Stddev	.24	7.	.000	.9	.5	1.1	.000	1.3	.61
%RSD	2.77	2.94	3.17	2.33	1.48	6.77	5.58	4.99	6.60

Int. Std.	Y_3600
Units	Cts/S
Avg	**90088.**
Stddev	175.
%RSD	.19430

Sample Name: CalibStd=10 Acquired: 08/19/2013 11:23:30 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**51.1**	**6.34**	**4.36**	**427.**	**.002**	**74.4**	**72.1**	**80.8**	**27.2**	**.000**	**16.8**	**53.4**
Stddev	3.9	.11	.45	7.	.000	.9	1.6	3.0	.8	.000	.0	.8
%RSD	7.57	1.78	10.2	1.56	.865	1.20	2.17	3.78	2.78	2.04	.294	1.50

Elem	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.4**	**6.74**	**2.21**	**4.98**	**1.41**	**4.38**	**139.**	**65.5**
Stddev	.6	.55	.43	.41	.35	.39	4.	.3
%RSD	4.92	8.22	19.7	8.16	24.9	8.93	3.07	.424

Int. Std.	Y_3600
Units	Cts/S
Avg	**90118.**
Stddev	1014.
%RSD	1.1255

Sample Name: CalibStd=20 Acquired: 08/19/2013 11:27:21 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ba4554	Cr2677	Cu2247	Fe2599	Mn2576	Mo2020	Sb2175	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**827.**	**153.**	**51.9**	**.000**	**.001**	**33.1**	**8.46**	**288.**
Stddev	20.	.	2.2	.000	.000	.5	.70	7.
%RSD	2.37	.310	4.28	1.85	2.10	1.46	8.24	2.27

Int. Std.	Y_3600
Units	Cts/S
Avg	**89449.**
Stddev	254.
%RSD	.28351

Sample Name: CalibStd=50 Acquired: 08/19/2013 11:31:10 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.9**	**22.4**	**2050.**	**7180.**	**379.**	**353.**	**376.**	**.001**	**123.**	**.000**	**.005**	**.002**
Stddev	.4	.3	23.	119.	9.	9.	7.	.000	2.	.000	.000	.000
%RSD	2.49	1.45	1.13	1.66	2.39	2.58	1.83	1.91	1.77	1.84	1.85	2.06

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**83.1**	**52.4**	**284.**	**30.6**	**10.2**	**7.88**	**21.6**	**690.**	**264.**
Stddev	2.0	1.9	5.	.8	1.0	.39	.4	3.	5.
%RSD	2.41	3.71	1.78	2.63	9.37	5.00	1.74	.456	1.96

Int. Std.	Y_3600
Units	Cts/S
Avg	**89986.**
Stddev	509.
%RSD	.56599

Sample Name: CalibStd=100 Acquired: 08/19/2013 11:34:53 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3933	Cd2265	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**670.**	**44.2**	**7.94**	**3940.**	**3770.**	**.019**	**.002**	**11800.**	**768.**	**1210.**	**719.**
Stddev	9.	.2	.27	65.	41.	.000	.000	199.	13.	21.	16.
%RSD	1.31	.462	3.40	1.64	1.09	1.20	1.54	1.68	1.67	1.75	2.18

Elem	Cr2677	Cr2835	Cu2247	Cu3247	Fe2599	Mg2802	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**757.**	**.001**	**245.**	**.006**	**.001**	**.010**	**.003**	**167.**	**106.**	**461.**	**580.**
Stddev	9.	.000	4.	.000	.000	.000	.000	3.	3.	8.	10.
%RSD	1.13	2.16	1.68	1.10	2.71	.617	1.28	1.80	2.64	1.79	1.74

Elem	Pb2169	Pb2203	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**44.6**	**83.0**	**53.3**	**22.1**	**15.3**	**44.9**	**1380.**	**521.**
Stddev	1.8	1.8	.7	1.6	.4	.5	13.	11.
%RSD	3.98	2.19	1.40	7.28	2.88	1.16	.961	2.05

Int. Std.	Y_3600
Units	Cts/S
Avg	**89142.**
Stddev	513.
%RSD	.57515

Sample Name: CalibStd=1000 Acquired: 08/19/2013 11:38:31 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al1670	As1937	As1890	Ba4934	Be2348	Ca3179	Ca3933	Cd2265	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**292.**	**428.**	**78.9**	**37900.**	**.021**	**.016**	**99600.**	**7320.**	**11300.**	**6720.**
Stddev	.000	8.	8.	1.2	636.	.000	.000	1710.	126.	216.	117.
%RSD	3.05	2.66	1.80	1.48	1.68	2.27	.632	1.72	1.73	1.92	1.74

Elem	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2802	Mn2576	Mn2593
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.004**	**7270.**	**.013**	**2290.**	**.019**	**.001**	**.002**	**.005**	**.089**	**.033**	**.036**
Stddev	.000	89.	.000	43.	.000	.000	.000	.000	.002	.001	.001
%RSD	1.93	1.22	1.89	1.87	1.63	2.07	1.25	2.42	1.92	2.04	1.92

Elem	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1590.**	**1000.**	**4320.**	**5480.**	**392.**	**739.**	**554.**	**534.**	**192.**	**143.**	**62.2**
Stddev	28.	19.	87.	111.	9.	13.	11.	9.	2.	3.	1.4
%RSD	1.73	1.91	2.02	2.02	2.23	1.75	2.00	1.78	1.23	1.89	2.27

Elem	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**421.**	**.008**	**13200.**	**5540.**	**4760.**
Stddev	.000	10.	.000	114.	115.	91.
%RSD	11.5	2.27	2.19	.862	2.07	1.92

Int. Std.	Y_3600
Units	Cts/S
Avg	**89514.**
Stddev	396.
%RSD	.44218

Sample Name: CalibStd=10000 Acquired: 08/19/2013 11:41:46 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	As1890	Ba4554	Ba4934	Ca3179	Co2388	Cr2835	Cu2247	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.031**	**.068**	**790.**	**380000.**	**397000.**	**.079**	**.045**	**.140**	**22200.**	**.162**
Stddev	.001	.003	6.	12000.	17700.	.003	.002	.006	175.	.008
%RSD	4.80	4.55	.778	3.15	4.46	4.18	4.96	4.43	.791	4.69

Elem	Fe2343	Fe2395	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.011**	**.017**	**.057**	**4690.**	**.920**	**.373**	**10100.**	**42300.**	**3700.**	**5490.**
Stddev	.001	.001	.003	47.	.042	.018	75.	325.	27.	31.
%RSD	4.57	4.06	4.54	1.01	4.61	4.78	.742	.768	.737	.560

Elem	Se1960	Se1960	Se2062	Tl2767	V_2908	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1930.**	**1380.**	**631.**	**.002**	**.080**	**54500.**
Stddev	5.	5.	5.	.000	.004	347.
%RSD	.242	.373	.768	5.51	5.00	.638

Int. Std.	Y_3600
Units	Cts/S
Avg	**89160.**
Stddev	35.
%RSD	.03940

Sample Name: CalibStd-100k Acquired: 08/19/2013 11:45:53 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Cr2835	Cu3247	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.37**	**1.54**	**3.44**	**36300.**	**466000.**
Stddev	.04	.05	.11	370.	5590.
%RSD	3.24	3.41	3.15	1.02	1.20

Int. Std.	Y_3600
Units	Cts/S
Avg	**89085.**
Stddev	406.
%RSD	.45588

Sample Name: CalibStd-100000 Acquired: 08/19/2013 11:50:05 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.303**	**.653**	**.686**	**.109**	**.167**	**42900.**
Stddev	.007	.016	.017	.003	.004	638.
%RSD	2.24	2.48	2.51	2.35	2.13	1.49

Int. Std.	Y_3600
Units	Cts/S
Avg	**87446.**
Stddev	215.
%RSD	.24589

Sample Name: CalibStd=500000 Acquired: 08/19/2013 11:54:03 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.27**	**3.13**	**.503**	**164000.**
Stddev	.11	.15	.017	1500.
%RSD	3.39	4.85	3.28	.910

Int. Std.	Y_3600
Units	Cts/S
Avg	**84338.**
Stddev	159.
%RSD	.18798

Sample Name: CalibStd-1000k Acquired: 08/19/2013 11:58:02 Type: Cal
Method: DOD Calibration 1(v1392) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.58**	**6.00**	**.957**	**263000.**
Stddev	.20	.17	.034	1460.
%RSD	2.96	2.82	3.60	.553

Int. Std.	Y_3600
Units	Cts/S
Avg	**80857.**
Stddev	823.
%RSD	1.0174

Sample Name: icv Acquired: 08/19/2013 12:06:07 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343	Mg2025
Avg	**47.9**	**12100.**	**2090.**	**2090.**	**49.2**	**10400.**	**51.7**	**519.**	**211.**	**261.**	**5010.**	**10500.**
Stddev	.5	258.	26.	57.	1.0	245.	.5	6.	4.	4.	82.	186.
%RSD	1.04	2.12	1.26	2.72	2.01	2.36	1.04	1.24	2.02	1.53	1.63	1.77
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl2767	V_2924	Zn2138
Avg	**522.**	**516.**	**520.**	**510.**	**524.**	**2140.**	**2060.**	**531.**	**530.**
Stddev	11.	5.	6.	4.	7.	35.	155.	10.	7.
%RSD	2.12	1.04	1.24	.731	1.36	1.65	7.56	1.80	1.35
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**89247.**
Stddev	366.
%RSD	.41015

Sample Name: ICVLL Acquired: 08/19/2013 12:09:39 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802	Mn2576
Avg	**803.**	**42.3**	**20.5**	**8.50**	**975.**	**9.86**	**21.2**	**19.3**	**20.3**	**646.**	**990.**	**20.0**
Stddev	14.	.6	.3	.25	21.	.32	.6	.5	.5	8.	20.	.6
%RSD	1.76	1.36	1.69	2.91	2.17	3.28	2.77	2.72	2.21	1.16	2.04	3.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**21.0**	**21.2**	**18.5**	**36.6**	**36.7**	**44.9**	**21.1**	**16.9**
Stddev	.3	.6	1.1	2.0	3.0	.3	.6	.3
%RSD	1.31	3.03	5.83	5.58	8.16	.711	3.03	1.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_3600
Avg	**88864.**
Stddev	273.
%RSD	.30756

Sample Name: icb Acquired: 08/19/2013 12:17:15 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**.521**	**2.53**	**-2.88**	**-1.20**	**.039**	**-9.12**	**-1.26**	**.122**	**-1.42**	**.150**	**15.4**	**10.3**
Stddev	.126	.14	.23	.03	.039	.23	.08	.118	.56	.153	2.9	.2
%RSD	24.1	5.66	7.96	2.83	100.	2.55	6.45	96.6	39.3	102.	18.7	1.83
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.269**	**.402**	**.299**	**-1.22**	**-.813**	**-9.48**	**-.057**	**-.138**	**-4.28**
Stddev	.332	.651	.041	1.07	1.94	1.71	1.58	.376	.07
%RSD	123.	162.	13.7	87.9	239.	18.1	2760.	272.	1.76
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**89066.**
Stddev	196.
%RSD	.21988

Sample Name: MRL Acquired: 08/19/2013 12:21:07 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	18.7	375.	20.1	9.32	4.47	496.	520.	4.41	10.8	9.11	10.6	309.
Stddev	.2	7.	1.3	.28	.07	5.	12.	.08	.1	.49	.4	8.
%RSD	.888	1.74	6.30	3.01	1.62	.948	2.34	1.78	1.06	5.40	3.61	2.74
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	517.	11.2	10.7	11.2	8.11	20.6	23.9	21.4	10.6	6.96
Stddev	8.	.4	.3	.3	.99	.4	1.9	1.4	.5	.18
%RSD	1.52	3.94	3.05	2.35	12.2	1.92	8.00	6.32	4.47	2.61
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	88645.
Stddev	475.
%RSD	.53632

Sample Name: icsa Acquired: 08/19/2013 12:24:57 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	Al1670	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**492000.**	**.000**	**-.006**	**.000**	**.000**	**458000.**	**.000**	**-.012**	**.000**	**.000**
Stddev	.090	12100.	.000	6.63	.040	.096	12700.	.398	.201	.389	8.36
%RSD	.000	2.46	.000	110000.	48000.	130e15	2.77	987000.	1730.	82400.	6610000.
Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Fe2343	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**465000.**	**484000.**	**-.188**	**-.184**	**.001**	**.000**	**.000**	**.029**	**.000**	**.056**	**-.001**
Stddev	16700.	6990.	.476	.730	.278	1.54	1.51	7.35	.61	.804	1.39
%RSD	3.60	1.44	253.	396.	37800.	321000.	461000.	25300.	129000.	1440.	103000.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Int. Std.	Y_3600
Avg	**83574.**
Stddev	318.
%RSD	.37990

Sample Name: icsab Acquired: 08/19/2013 12:28:56 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	435.	489000.	484.	529.	541.	457000.	452.	496.	479.	525.	467000.
Stddev	4.	10100.	6.	22.	14.	6760.	4.	22.	15.	21.	11700.
%RSD	.913	2.07	1.27	4.10	2.63	1.48	.969	4.52	3.05	4.03	2.50
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2025	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	474000.	455.	482.	484.	413.	456.	415.	500.	562.	427.
Stddev	4390.	26.	4.	5.	19.	5.	20.	----	22.	4.
%RSD	.927	5.73	.893	1.00	4.47	1.18	4.73	320.	3.92	.886
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	83367.
Stddev	516.
%RSD	.61951

Sample Name: icsab Acquired: 08/19/2013 12:28:56 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	V_2908	V_2924	Zn2062	Zn2138
Avg	**562.**	**471.**	**427.**	**470.**
Stddev	22.	3.	4.	4.
%RSD	3.92	.709	.886	.895
Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_3600
Avg	**83367.**
Stddev	516.
%RSD	.61951

Sample Name: ccv1 Acquired: 08/19/2013 14:05:14 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343	Mg2025
Avg	**469.**	**5080.**	**5280.**	**5130.**	**531.**	**5170.**	**543.**	**5040.**	**5100.**	**5200.**	**4790.**	**4980.**
Stddev	5.	126.	89.	159.	14.	150.	9.	145.	134.	146.	133.	84.
%RSD	1.00	2.47	1.69	3.11	2.65	2.91	1.60	2.88	2.62	2.80	2.78	1.69
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**5400.**	**5260.**	**5300.**	**5350.**	**5290.**	**5310.**	**4930.**	**5080.**	**5240.**
Stddev	151.	89.	100.	87.	70.	82.	222.	161.	102.
%RSD	2.80	1.69	1.89	1.63	1.31	1.55	4.50	3.17	1.95
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**87105.**
Stddev	1149.
%RSD	1.3194

Sample Name: ccv2 Acquired: 08/19/2013 14:08:44 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**51.1**	**511.**	**537.**	**517.**	**52.1**	**553.**	**53.7**	**530.**	**525.**	**529.**	**529.**	**524.**
Stddev	.7	18.	9.	8.	.4	9.	1.2	11.	4.	12.	4.	7.
%RSD	1.46	3.42	1.71	1.54	.822	1.57	2.18	2.15	.735	2.25	.764	1.36
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**524.**	**525.**	**534.**	**529.**	**541.**	**544.**	**543.**	**532.**	**539.**
Stddev	7.	11.	12.	13.	11.	9.	7.	6.	12.
%RSD	1.33	2.06	2.15	2.40	2.03	1.64	1.31	1.05	2.17
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**88120.**
Stddev	68.
%RSD	.07728

Sample Name: ccb Acquired: 08/19/2013 14:12:08 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**.805**	**-.355**	**-.540**	**-.410**	**.164**	**-10.8**	**-1.22**	**.287**	**.018**	**.855**	**4.33**	**7.93**
Stddev	.254	.224	1.13	.173	.011	.2	.04	.227	.393	.542	3.24	.12
%RSD	31.5	63.1	209.	42.2	6.67	1.48	3.56	78.9	2130.	63.4	74.7	1.54
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.383**	**2.05**	**.431**	**-1.91**	**-.521**	**-7.93**	**3.50**	**.391**	**-4.94**
Stddev	.355	.17	.198	.84	1.23	2.66	.46	.228	.03
%RSD	92.8	8.35	45.9	44.1	236.	33.5	13.0	58.5	.637
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**87395.**
Stddev	430.
%RSD	.49226

Sample Name: lcsw45497 Acquired: 08/19/2013 14:39:40 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.7**	**1160.**	**771.**	**891.**	**869.**	**885.**	**891.**	**22.4**	**198000.**	**18.5**	**193.**
Stddev	.3	45.	16.	9.	11.	16.	15.	.7	4820.	.3	3.
%RSD	1.43	3.86	2.07	1.02	1.27	1.83	1.73	3.03	2.43	1.56	1.42

Elem	Cr2677	Cu2247	Fe2599	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**79.7**	**98.0**	**446.**	**95500.**	**229.**	**.060**	**194.**	**177.**	**217.**	**214.**	**876.**
Stddev	.3	1.2	12.	1330.	6.	.185	3.	2.	2.	1.	9.
%RSD	.419	1.25	2.73	1.39	2.51	309.	1.32	.919	1.04	.533	.990

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**828.**	**856.**	**1170.**	**704.**	**216.**	**210.**
Stddev	10.	6.	216.	8.	1.	3.
%RSD	1.18	.680	18.5	1.12	.352	1.44

Int. Std.	Y_3600
Units	Cts/S
Avg	**84208.**
Stddev	481.
%RSD	.57168

Sample Name: mbw45497 Acquired: 08/19/2013 14:43:32 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.574**	**2.04**	**.258**	**-.718**	**.037**	**109.**	**-1.20**	**.177**	**-1.57**	**.246**	**77.2**	**48.6**
Stddev	.355	1.48	.117	.193	.041	25.	.06	.152	.19	.304	2.1	10.0
%RSD	61.8	72.6	45.4	26.8	111.	23.1	5.00	85.7	12.4	124.	2.73	20.5

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.82**	**.327**	**.430**	**-2.28**	**-.807**	**-9.56**	**2.66**	**.220**	**-1.48**
Stddev	.40	.184	.255	.85	.912	.64	.93	.280	.20
%RSD	22.0	56.3	59.2	37.3	113.	6.67	35.1	127.	13.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**87611.**
Stddev	396.
%RSD	.45244

Sample Name: 339561 Acquired: 08/19/2013 14:47:23 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.766**	**1.26**	**-.788**	**-1.33**	**.042**	**5.45**	**-1.04**	**.291**	**-1.13**	**-.062**	**3.06**	**8.78**
Stddev	.470	1.40	.633	.19	.075	2.02	.08	.165	.25	.261	4.38	.32
%RSD	61.4	111.	80.2	14.3	179.	37.2	7.74	56.7	22.2	425.	143.	3.59

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.007**	**.393**	**.864**	**-3.22**	**-1.17**	**-9.05**	**-.213**	**.222**	**-4.86**
Stddev	.037	.241	.013	1.21	1.43	6.34	.404	.459	.13
%RSD	556.	61.4	1.52	37.7	122.	70.1	189.	206.	2.66

Int. Std.	Y_3600
Units	Cts/S
Avg	**88205.**
Stddev	2061.
%RSD	2.3366

Sample Name: I339561 Acquired: 08/19/2013 14:51:13 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.645**	**2.28**	**-.789**	**-1.22**	**.072**	**-7.78**	**-1.05**	**.292**	**-1.53**	**-.564**	**-.695**	**7.90**
Stddev	.451	1.13	1.27	.08	.129	1.19	.15	.083	.45	.093	2.85	.05
%RSD	69.9	49.7	161.	6.43	179.	15.2	14.1	28.3	29.1	16.5	409.	.673

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.027**	**.023**	**.772**	**-2.23**	**-1.15**	**-11.1**	**.526**	**-.075**	**-5.18**
Stddev	.199	.350	.107	.34	.35	6.9	.965	.199	.17
%RSD	736.	1520.	13.9	15.4	30.3	62.5	183.	265.	3.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**87538.**
Stddev	395.
%RSD	.45148

Sample Name: ccv1 Acquired: 08/19/2013 14:55:05 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343	Mg2025
Avg	**468.**	**5140.**	**5310.**	**5140.**	**533.**	**5180.**	**545.**	**5080.**	**5100.**	**5270.**	**4800.**	**5020.**
Stddev	4.	148.	49.	114.	17.	184.	6.	126.	137.	156.	147.	72.
%RSD	.757	2.89	.912	2.21	3.21	3.56	1.13	2.48	2.70	2.96	3.06	1.43
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**5430.**	**5270.**	**5300.**	**5350.**	**5300.**	**5300.**	**5070.**	**5170.**	**5230.**
Stddev	154.	62.	62.	62.	56.	73.	227.	155.	50.
%RSD	2.84	1.18	1.17	1.15	1.06	1.37	4.49	3.00	.948
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**86311.**
Stddev	454.
%RSD	.52649

Sample Name: ccv2 Acquired: 08/19/2013 14:58:35 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**50.4**	**541.**	**541.**	**518.**	**53.3**	**552.**	**54.0**	**530.**	**525.**	**530.**	**546.**	**536.**
Stddev	.8	16.	7.	3.	.6	4.	1.3	14.	10.	14.	5.	5.
%RSD	1.59	2.88	1.36	.594	1.13	.705	2.40	2.61	1.88	2.60	1.00	.892
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**535.**	**523.**	**538.**	**526.**	**545.**	**538.**	**548.**	**532.**	**541.**
Stddev	5.	13.	14.	13.	12.	8.	11.	4.	14.
%RSD	.976	2.44	2.61	2.39	2.21	1.50	2.01	.841	2.58
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**86090.**
Stddev	277.
%RSD	.32179

Sample Name: ccb Acquired: 08/19/2013 15:01:59 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**.426**	**.457**	**-.406**	**-.260**	**.171**	**-10.8**	**-1.12**	**.329**	**-.533**	**.040**	**4.53**	**8.04**
Stddev	.055	.188	.310	.363	.040	.1	.10	.036	.362	.150	.83	.16
%RSD	12.8	41.2	76.4	140.	23.6	1.06	8.72	10.8	68.0	374.	18.4	1.95
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.552**	**2.19**	**.635**	**-1.63**	**-.731**	**-9.03**	**2.12**	**.665**	**-5.19**
Stddev	.153	.27	.258	.47	.875	3.85	1.73	.262	.17
%RSD	27.8	12.5	40.6	29.1	120.	42.6	81.8	39.4	3.18
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**86257.**
Stddev	1029.
%RSD	1.1924

Sample Name: dup339561 Acquired: 08/19/2013 15:05:51 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.702**	**1.46**	**-.884**	**-1.30**	**.052**	**9.11**	**-1.16**	**.079**	**-1.65**	**-.084**	**4.02**	**10.2**
Stddev	.459	.39	1.33	.02	.023	.64	.04	.166	.24	.364	2.39	.2
%RSD	65.4	26.5	150.	1.42	44.6	7.05	3.33	211.	14.6	434.	59.5	1.81

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.062**	**.682**	**.543**	**-2.63**	**-1.07**	**-9.49**	**.130**	**-.201**	**-4.37**
Stddev	.127	.075	.217	.38	.34	5.78	.638	.568	.05
%RSD	204.	10.9	40.0	14.6	31.4	60.9	491.	283.	1.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**86096.**
Stddev	1806.
%RSD	2.0972

Sample Name: msw339561 Acquired: 08/19/2013 15:09:43 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.9**	**1230.**	**854.**	**884.**	**859.**	**844.**	**849.**	**21.6**	**193000.**	**18.4**	**192.**
Stddev	.5	43.	5.	13.	16.	27.	27.	.6	5750.	.3	4.
%RSD	2.30	3.49	.593	1.47	1.83	3.20	3.21	2.67	2.97	1.57	1.86

Elem	Cr2677	Cu2247	Fe2599	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**79.9**	**97.7**	**437.**	**94200.**	**222.**	**.586**	**193.**	**176.**	**213.**	**210.**	**854.**
Stddev	.8	1.8	13.	1650.	7.	.429	3.	4.	5.	2.	10.
%RSD	.981	1.88	2.97	1.75	3.21	73.2	1.74	2.33	2.18	1.10	1.17

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**817.**	**841.**	**1250.**	**696.**	**215.**	**209.**
Stddev	6.	8.	331.	6.	2.	4.
%RSD	.748	.914	26.5	.827	.768	1.99

Int. Std.	Y_3600
Units	Cts/S
Avg	**83002.**
Stddev	107.
%RSD	.12902

Sample Name: msdw339561 Acquired: 08/19/2013 15:13:34 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.9**	**1140.**	**792.**	**897.**	**876.**	**857.**	**861.**	**21.9**	**193000.**	**18.8**	**195.**
Stddev	.3	36.	16.	13.	13.	28.	27.	.8	7240.	.3	4.
%RSD	1.38	3.19	2.03	1.40	1.45	3.24	3.09	3.68	3.75	1.84	2.00

Elem	Cr2677	Cu2247	Fe2599	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**79.9**	**99.0**	**435.**	**95400.**	**223.**	**.132**	**196.**	**178.**	**217.**	**214.**	**854.**
Stddev	.9	1.7	13.	1660.	7.	.335	3.	5.	5.	3.	8.
%RSD	1.10	1.71	3.00	1.74	3.24	253.	1.75	2.77	2.14	1.50	.982

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**830.**	**843.**	**1480.**	**710.**	**215.**	**212.**
Stddev	12.	18.	248.	11.	1.	5.
%RSD	1.47	2.12	16.8	1.50	.691	2.14

Int. Std.	Y_3600
Units	Cts/S
Avg	**83572.**
Stddev	545.
%RSD	.65166

Sample Name: pdsw339561 Acquired: 08/19/2013 15:17:27 Type: Unk
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	Al1670	As1890	Ba4934	Be2348	Ca3179	Cd2265	Cd2288	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**96.9**	**5170.**	**4720.**	**.000**	**4290.**	**4390.**	**122.**	**433000.**	**92.8**	**140.**	**923.**
Stddev	.9	185.	174.	.000	42.	132.	4.	15300.	1.0	2.	11.
%RSD	.896	3.57	3.69	.000	.970	3.01	2.91	3.53	1.03	1.15	1.18

Elem	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2395	Fe2599	Mg2025	Mn2576	Mn2593	Mo2020
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
Avg	**1110.**	**401.**	**426.**	**471.**	**579.**	**2150.**	**2220.**	**218000.**	**1150.**	**891.**	**-.215**
Stddev	28.	2.	18.	6.	20.	77.	71.	2900.	38.	40.	.707
%RSD	2.55	.438	4.15	1.22	3.39	3.57	3.21	1.33	3.31	4.48	329.

Elem	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1020.**	**922.**	**979.**	**845.**	**1060.**	**1050.**	**4230.**	**4150.**	**4970.**	**3270.**	**1160.**
Stddev	13.	11.	12.	6.	10.	9.	19.	17.	511.	25.	39.
%RSD	1.31	1.19	1.24	.662	.907	.897	.458	.420	10.3	.776	3.36

Elem	Zn2062	Zn2138
Units	ug/L	ug/L
Avg	**975.**	**1050.**
Stddev	12.	13.
%RSD	1.25	1.27

Int. Std.	Y_3600
Units	Cts/S
Avg	**81181.**
Stddev	477.
%RSD	.58775

Sample Name: ccv1 Acquired: 08/19/2013 15:45:06 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343	Mg2025
Avg	**468.**	**5170.**	**5280.**	**5080.**	**529.**	**5410.**	**543.**	**5050.**	**5150.**	**5360.**	**4860.**	**5020.**
Stddev	1.	91.	60.	102.	16.	83.	5.	119.	112.	111.	148.	72.
%RSD	.138	1.76	1.13	2.00	2.97	1.54	.970	2.36	2.18	2.07	3.04	1.43
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**5430.**	**5280.**	**5330.**	**5310.**	**5270.**	**5320.**	**5110.**	**5200.**	**5280.**
Stddev	125.	63.	65.	60.	38.	40.	165.	107.	56.
%RSD	2.31	1.19	1.22	1.13	.715	.746	3.23	2.05	1.06
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**82963.**
Stddev	393.
%RSD	.47378

Sample Name: ccv2 Acquired: 08/19/2013 15:48:36 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**50.3**	**526.**	**537.**	**498.**	**52.7**	**530.**	**53.0**	**523.**	**519.**	**524.**	**554.**	**529.**
Stddev	1.1	10.	6.	8.	.8	9.	1.0	11.	12.	11.	11.	10.
%RSD	2.15	1.86	1.14	1.58	1.44	1.64	1.86	2.18	2.34	2.14	1.95	1.82
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**525.**	**510.**	**531.**	**516.**	**536.**	**531.**	**539.**	**537.**	**535.**
Stddev	9.	9.	11.	8.	7.	9.	8.	11.	11.
%RSD	1.67	1.80	1.99	1.61	1.32	1.78	1.40	2.05	2.00
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**83079.**
Stddev	127.
%RSD	.15283

Sample Name: ccb Acquired: 08/19/2013 15:52:00 Type: QC
Method: DOD Calibration 1(v1392) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**.535**	**-.114**	**-.211**	**-.435**	**.116**	**-10.6**	**-1.08**	**.351**	**.039**	**.496**	**14.5**	**8.03**
Stddev	.351	.146	.929	.079	.042	.1	.04	.157	.224	.571	2.4	.20
%RSD	65.6	128.	441.	18.1	35.8	1.14	4.01	44.7	571.	115.	16.3	2.43
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.384**	**2.15**	**.340**	**-2.18**	**-.747**	**-6.01**	**3.07**	**.779**	**-5.18**
Stddev	.310	.07	.220	.26	1.41	3.66	1.38	.221	.18
%RSD	80.8	3.29	64.6	11.8	189.	60.9	45.0	28.3	3.49
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

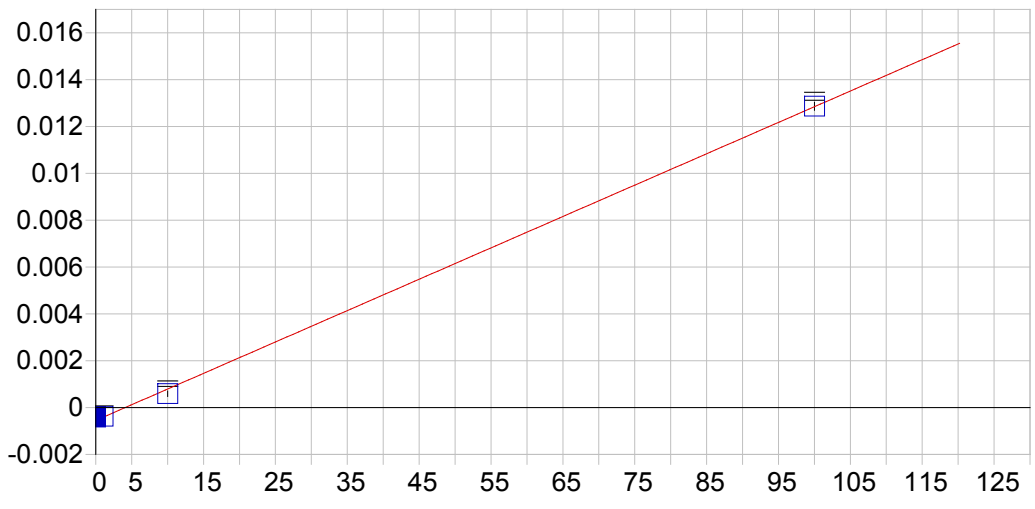
Int. Std.	Y_3600
Avg	**83153.**
Stddev	421.
%RSD	.50673

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	08/22/2013 07:37:45	08/21/2013 12:49:48	Linear	None	-0.000548	0.000134	0.000000	1.000000	0.999758	0.000175	0.759227	2.530755
Al 309.271 {109}	08/22/2013 07:37:45	08/21/2013 13:05:00	Curvilin	1/Conc	-0.001803	0.000004	0.000000	1.000000	0.999972	0.000018	31.148588	103.828627
Al 396.152 { 85}	08/22/2013 07:37:45	08/21/2013 13:12:56	Curvilin	1/Conc	-0.000178	0.000010	0.000000	1.000000	0.999897	0.000830	12.981509	43.271696
Al 167.079 {502}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	None	0.000074	0.000012	0.000000	1.000000	0.999968	0.000049	0.606646	2.022152
As 193.759 {474}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	None	-0.000002	0.000007	0.000000	1.000000	0.999998	0.000008	2.252930	7.509768
As 189.042 {479}	08/22/2013 07:37:45	08/21/2013 12:57:06	Linear	None	0.000006	0.000002	0.000000	1.000000	0.999998	0.000022	5.232424	17.441413
Ba 455.403 { 74}	08/22/2013 07:37:45	08/21/2013 12:57:06	Linear	None	0.001106	0.000612	0.000000	1.000000	1.000000	0.000821	0.270640	0.902132
Ba 493.409 { 68}	08/22/2013 07:37:45	08/21/2013 12:57:06	Linear	None	-0.006327	0.000602	0.000000	1.000000	1.000000	0.001562	0.627645	2.092149
Be 313.042 {108}	08/22/2013 07:37:45	08/21/2013 12:49:48	Linear	1/Conc	0.000163	0.000215	0.000000	1.000000	0.999125	0.000002	0.183315	0.611049
Be 234.861 {144}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	-0.000002	0.000025	0.000000	1.000000	0.999997	0.000001	0.964489	3.214962
Ca 317.933 {106}	08/22/2013 07:37:45	08/21/2013 13:12:56	Curvilin	1/Conc	0.016066	0.000005	0.000000	1.000000	0.999990	0.000032	8.823242	29.410807
Ca 393.366 { 86}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	None	0.017679	0.001394	0.000000	1.000000	0.999895	0.011784	0.070842	0.236139
Ca 396.847 { 85}	08/22/2013 07:37:45	08/21/2013 12:57:06	Linear	None	0.005051	0.000679	0.000000	1.000000	1.000000	0.003587	0.108924	0.363079
Cd 226.502 {449}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	None	0.000178	0.000208	0.000000	1.000000	0.999996	0.000217	0.124773	0.415911
Cd 228.802 {447}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	0.000159	0.000258	0.000000	1.000000	0.999957	0.000044	0.117006	0.390019
Co 228.616 {447}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	-0.000017	0.000145	0.000000	1.000000	0.999899	0.000006	0.187423	0.624744
Co 238.892 {141}	08/22/2013 07:37:45	08/21/2013 12:57:06	Linear	1/Conc	0.000024	0.000004	0.000000	1.000000	0.999986	0.000004	7.825054	26.083515
Cr 267.716 {126}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	None	0.000136	0.000167	0.000000	1.000000	0.999998	0.000153	0.619606	2.065352
Cr 283.563 {119}	08/22/2013 07:37:45	08/21/2013 13:01:02	Linear	None	0.000946	0.000014	0.000000	1.000000	0.999994	0.002121	3.043007	10.143357
Cu 224.700 {450}	08/22/2013 07:37:45	08/21/2013 12:57:06	Linear	1/Conc	-0.000048	0.000060	0.000000	1.000000	0.999808	0.000010	0.447650	1.492168
Cu 324.754 {104}	08/22/2013 07:37:45	08/21/2013 13:01:02	Linear	1/Conc	0.005426	0.000016	0.000000	1.000000	0.999823	0.000041	4.283147	14.277156
Cu 327.396 {103}	08/22/2013 07:37:45	08/21/2013 13:01:02	Linear	1/Conc	-0.000225	0.000009	0.000000	1.000000	0.999838	0.000009	9.288184	30.960615
Fe 234.349 {144}	08/22/2013 07:37:45	08/21/2013 13:12:56	Full Fit	1/Conc	0.000042	0.000001	0.000000	0.980000	0.999995	0.000006	13.554713	45.182378
Fe 239.562 {141}	08/22/2013 07:37:45	08/21/2013 13:05:00	Linear	None	0.000308	0.000002	0.000000	1.000000	0.999988	0.000489	10.649857	35.499524
Fe 259.940 {130}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	0.000045	0.000006	0.000000	1.000000	0.999959	0.000001	5.061869	16.872897
Mg 202.582 {466}	08/22/2013 07:37:45	08/21/2013 13:12:56	Full Fit	1/Conc	-0.000106	0.000021	-0.000000	0.950000	0.999985	0.000421	0.975994	3.253314
Mg 279.079 {121}	08/22/2013 07:37:45	08/21/2013 13:12:56	Linear	1/Conc	0.000014	0.000000	0.000000	1.000000	0.999679	0.000044	58.813815	196.046051
Mg 280.270 {120}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	None	0.000055	0.000116	0.000000	1.000000	0.999999	0.000859	0.193848	0.646160
Mn 257.610 {131}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	0.000017	0.000034	0.000000	1.000000	0.999959	0.000001	0.704326	2.347755
Mn 259.373 {130}	08/22/2013 07:37:45	08/21/2013 13:01:02	Linear	1/Conc	0.000004	0.000041	0.000000	1.000000	0.999733	0.000445	0.914474	3.048247
Mo 203.844 {465}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	0.000080	0.000052	0.000000	1.000000	0.999694	0.000002	0.432697	1.442324
Mo 202.030 {467}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	-0.000002	0.000052	0.000000	1.000000	0.999961	0.000002	0.288772	0.962575
Mo 204.598 {465}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	None	0.000182	0.000023	0.000000	1.000000	0.999998	0.000249	0.707761	2.359203
Ni 221.647 {452}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	None	0.001588	0.000082	0.000000	1.000000	0.999988	0.002387	0.395119	1.317065
Ni 231.604 {445}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	-0.000088	0.000128	0.000000	1.000000	0.999890	0.000006	0.329765	1.099216
Pb 216.999 {455}	08/22/2013 07:37:45	08/21/2013 13:01:02	Curvilin	1/Conc	0.000070	0.000008	-0.000000	1.000000	0.999961	0.000011	3.060306	10.201019
Pb 220.353 {453}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	None	0.000043	0.000022	0.000000	1.000000	0.999991	0.000047	1.184141	3.947137
Sb 206.833 {463}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.000006	0.000012	0.000000	1.000000	0.999928	0.000002	1.607581	5.358602
Sb 217.581 {455}	08/22/2013 07:37:45	08/21/2013 12:53:09	Linear	1/Conc	-0.000057	0.000012	0.000000	1.000000	0.999677	0.000001	2.241428	7.471426
Se 196.090 {172}	08/22/2013 07:37:45	08/21/2013 12:57:07	Curvilin	1/Conc	0.000034	0.000004	-0.000000	1.000000	0.999898	0.000001	9.091077	30.303590
Se 196.090 {472}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	0.000015	0.000007	0.000000	1.000000	0.999858	0.000002	2.367356	7.891186
Se 206.279 {463}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.000075	0.000001	0.000000	1.000000	0.999934	0.000003	22.029591	73.431969
Tl 276.787 {122}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	None	0.000010	0.000000	0.000000	1.000000	0.999924	0.000024	166.007541	553.358471
Tl 190.856 {477}	08/22/2013 07:37:45	08/21/2013 12:53:10	Linear	1/Conc	-0.000008	0.000007	0.000000	1.000000	0.999911	0.000000	1.720239	5.734131

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
	Al 309.271 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	Al 167.079 {502}	OK.	1.000000	0.000000	1	0
	As 193.759 {474}	OK.	1.000000	0.000000	1	0
	As 189.042 {479}	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
	Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	OK.	1.000000	0.000000	1	0
	Be 234.861 {144}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
	Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
	Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	OK.	1.000000	0.000000	1	0
	Co 238.892 {141}	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
	Cr 283.563 {119}	OK.	1.000000	0.000000	1	0
	Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	OK.	1.000000	0.000000	1	0
	Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
	Fe 239.562 {141}	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	OK.	1.000000	0.000000	1	0
	Mg 202.582 {466}	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
	Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
	Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
	Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	OK.	1.000000	0.000000	1	0
	Mo 204.598 {465}	OK.	1.000000	0.000000	1	0
	Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
	Pb 216.999 {455}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
	Sb 217.581 {455}	OK.	1.000000	0.000000	1	0
	Se 196.090 {172}	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	OK.	1.000000	0.000000	1	0
	Se 206.279 {463}	OK.	1.000000	0.000000	1	0
	Tl 276.787 {122}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	OK.	1.000000	0.000000	1	0

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
	V 290.882 {116}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.000027	0.000008	0.000000	1.000000	0.999957	0.000013	8.007762	26.692538
	V 292.402 {115}	08/22/2013 07:37:45	08/21/2013 12:53:10	Linear	1/Conc	0.000252	0.000308	0.000000	1.000000	0.999939	0.000014	0.542872	1.809573
	Zn 206.200 {463}	08/22/2013 07:37:45	08/21/2013 13:01:02	Full Fit	None	0.000424	0.000135	-0.000000	0.990000	1.000000	0.000000	0.156004	0.520012
	Zn 213.856 {458}	08/22/2013 07:37:45	08/21/2013 12:53:10	Linear	1/Conc	0.000156	0.000096	0.000000	1.000000	0.999805	0.000008	0.169969	0.566565
	Y 360.073 { 94}*	08/22/2013 07:37:45	08/21/2013 12:18:57	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Na 330.298 {102}	08/22/2013 07:37:45	08/21/2013 13:01:02	Linear	1/Conc	0.000011	0.000000	0.000000	1.000000	1.000000	0.000000	7932.39342	26441.3114
	Si 251.611 {134}	08/22/2013 07:37:45	08/21/2013 12:53:10	Linear	None	0.000144	0.000000	0.000000	1.000000	1.000000	0.000000	554.832417	1849.44138
	Ti 334.941 {101}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	0.000060	0.000051	0.000000	1.000000	0.999904	0.000003	1.041496	3.471654
	Ti 337.280 {100}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.000132	0.000058	0.000000	1.000000	0.999920	0.000003	1.251536	4.171786
	Sr 407.771 { 83}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.006879	0.000873	0.000000	1.000000	0.999997	0.000008	0.147155	0.490517
	Sr 421.552 { 80}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.000233	0.000809	0.000000	1.000000	0.999996	0.000009	0.152974	0.509912
	Sn 189.989 {477}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.000007	0.000023	0.000000	1.000000	0.999781	0.000004	0.584216	1.947386
	Sn 283.999 {119}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	-0.000003	0.000001	0.000000	1.000000	0.999967	0.000000	38.362283	127.874276
	B 249.773 {135}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	0.000018	0.000010	0.000000	1.000000	0.999859	0.000002	3.065561	10.218535
	Li 670.784 { 50}	08/22/2013 07:37:45	08/21/2013 12:57:07	Linear	1/Conc	0.000101	0.000239	0.000000	1.000000	0.999928	0.000039	1.153067	3.843556

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {458}	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	Warnin	1.000000	0.000000	1	0
	Na 330.298 {102}	OK.	1.000000	0.000000	1	0
	Si 251.611 {134}	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0
	Ti 337.280 {100}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	OK.	1.000000	0.000000	1	0
	Sn 283.999 {119}	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0

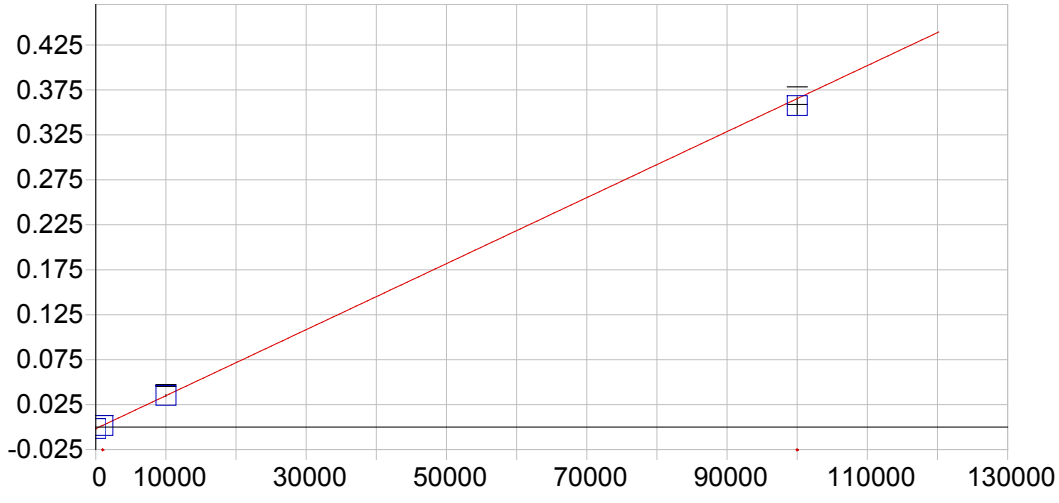


Ag 328.068 {103}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000548	Re-Slope:	1.000000
A1 (Gain):	0.000134	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999758	Status:	OK.
Std Error of Est:	0.000175		
Predicted MDL:	0.759227		
Predicted MQL:	2.530755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.0558	1.06	.000	-.00041	.000	1
CalibStd=10	10.000	8.5203	-1.48	-14.8	.00059	.000	1
CalibStd=1	1.0000	1.2787	.279	27.9	-.00038	.000	1
CalibStd=100	100.00	100.15	.145	.145	.01286	.000	1

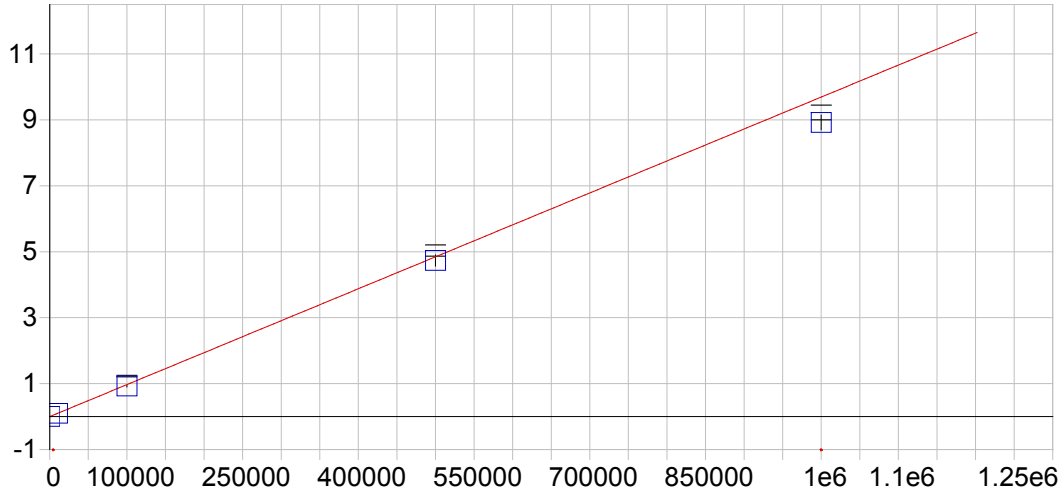


Al 309.271 {109}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.001803	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	31.148588		
Predicted MQL:	103.828627		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.06462	.065	.000	-.00180	.000	1
CalibStd=100	10000.	10058.	58.3	.583	.03513	.001	1
CalibStd=100	1000.0	927.27	-72.7	-7.27	.00160	.000	1
CalibStd-100	100000.	97850.	-2150.	-2.15	.35746	.010	1

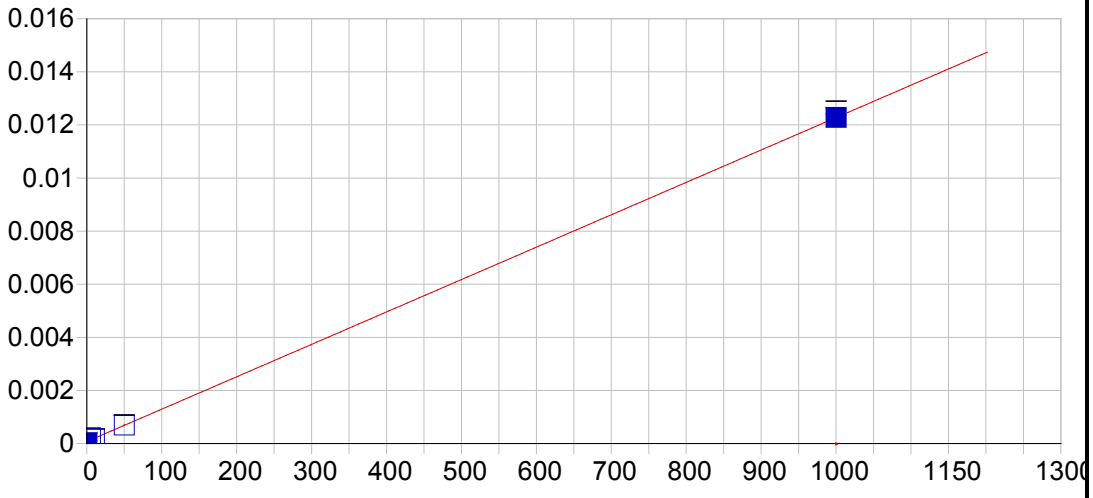


Al 396.152 { 85}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000178	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000830		
Predicted MDL:	12.981509		
Predicted MQL:	43.271696		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.33270	.333	.000	-.00017	.000	1
CalibStd-100	1000000.	920230.	-79800.	-7.98	8.9197	.226	1
CalibStd=500	500000.	488380.	-11600.	-2.32	4.7338	.170	1
CalibStd=100	10000.	9955.2	-44.8	-.448	.09632	.003	1
CalibStd-100	100000.	95115.	-4890.	-4.89	.92178	.024	1

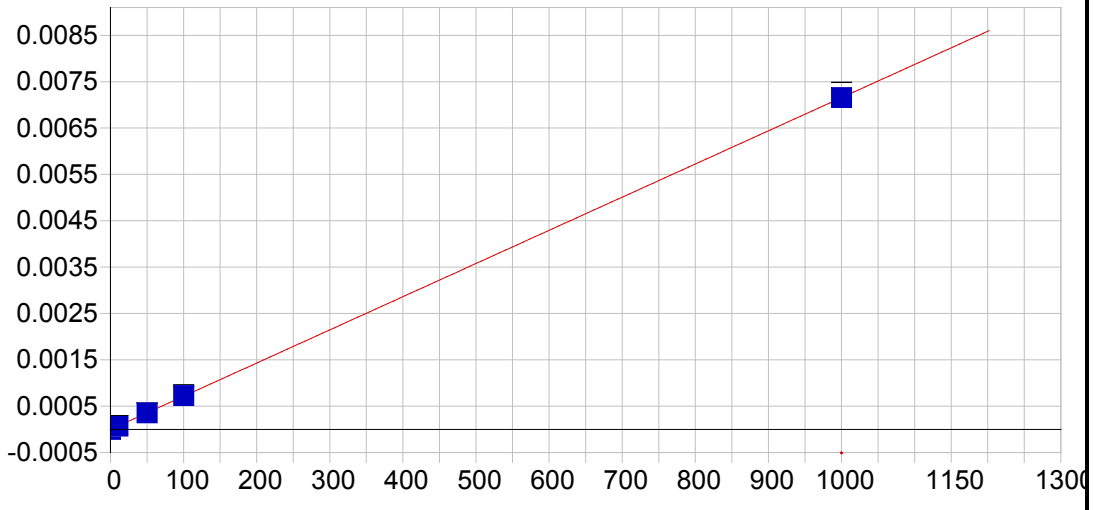


Al 167.079 {502}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000074	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.606646		
Predicted MQL:	2.022152		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.2913	-4.29	.000	.00002	.000	1
CalibStd=100	1000.0	999.96	-.044	-.004	.01229	.000	1
CalibStd=10	10.000	8.3924	-1.61	-16.1	.00018	.000	1
CalibStd=5	5.0000	10.258	5.26	105.	.00020	.000	1
CalibStd=50	50.000	50.686	.686	1.37	.00069	.000	1

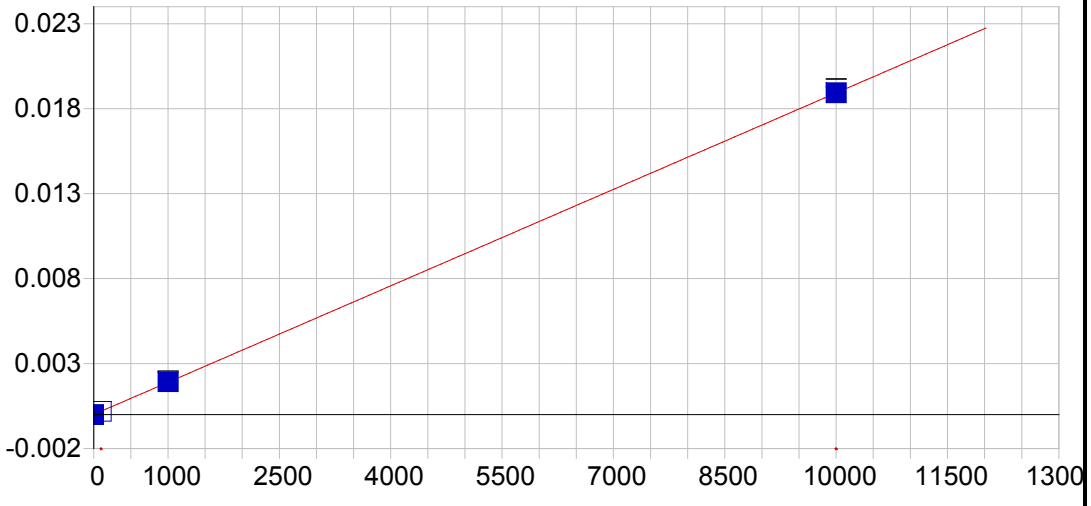


As 193.759 {474}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	2.252930		
Predicted MQL:	7.509768		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.55485	-.555	.000	-.00001	.000	1
CalibStd=100	1000.0	999.87	-.134	-.013	.00715	.000	1
CalibStd=50	50.000	49.484	-.516	-1.03	.00035	.000	1
CalibStd=10	10.000	9.5673	-.433	-4.33	.00007	.000	1
CalibStd=100	100.00	101.64	1.64	1.64	.00073	.000	1

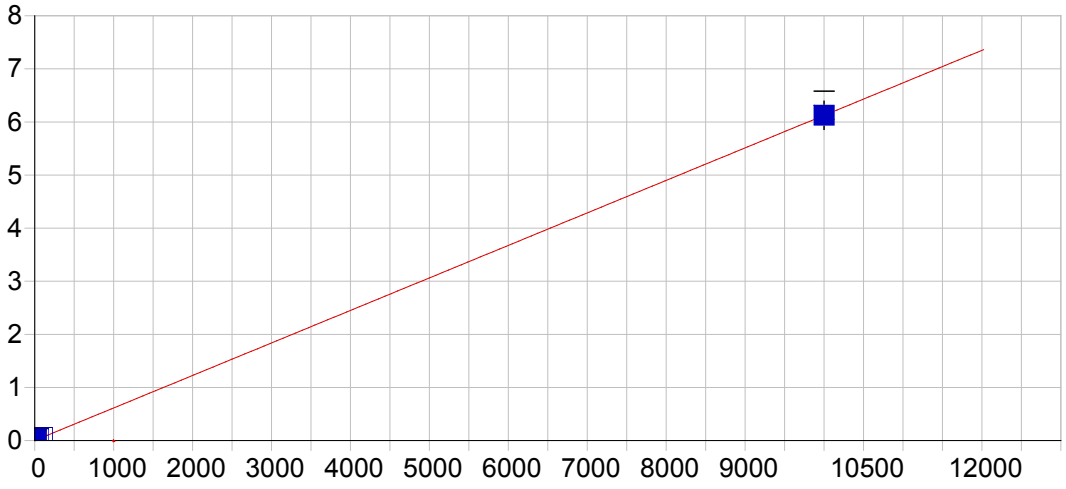


As 189.042 {479}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	5.232424		
Predicted MQL:	17.441413		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-8.0899	-8.09	.000	-.00001	.000	1
CalibStd=100	1000.0	1013.6	13.6	1.36	.00192	.000	1
CalibStd=100	10000.	9998.7	-1.32	-.013	.01892	.000	1
CalibStd=100	100.00	95.826	-4.17	-4.17	.00019	.000	1

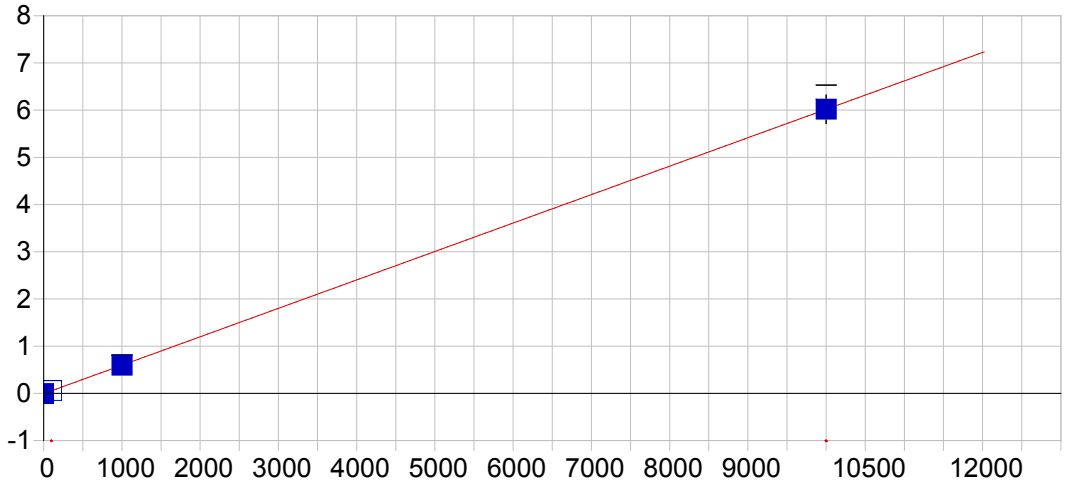


Ba 455.403 { 74}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001106	Re-Slope:	1.000000
A1 (Gain):	0.000612	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000821		
Predicted MDL:	0.270640		
Predicted MQL:	0.902132		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.5024	-1.50	.000	.00019	.000	1
CalibStd=50	50.000	52.216	2.22	4.43	.03308	.000	1
CalibStd=10	10.000	9.3220	-.678	-6.78	.00681	.000	1
CalibStd=20	20.000	20.550	.550	2.75	.01369	.000	1
CalibStd=100	100.00	100.38	.382	.382	.06257	.002	1
CalibStd=5	5.0000	4.0470	-.953	-19.1	.00358	.000	1
CalibStd=100	10000.	10000.0	-.015	.000	6.1241	.266	1

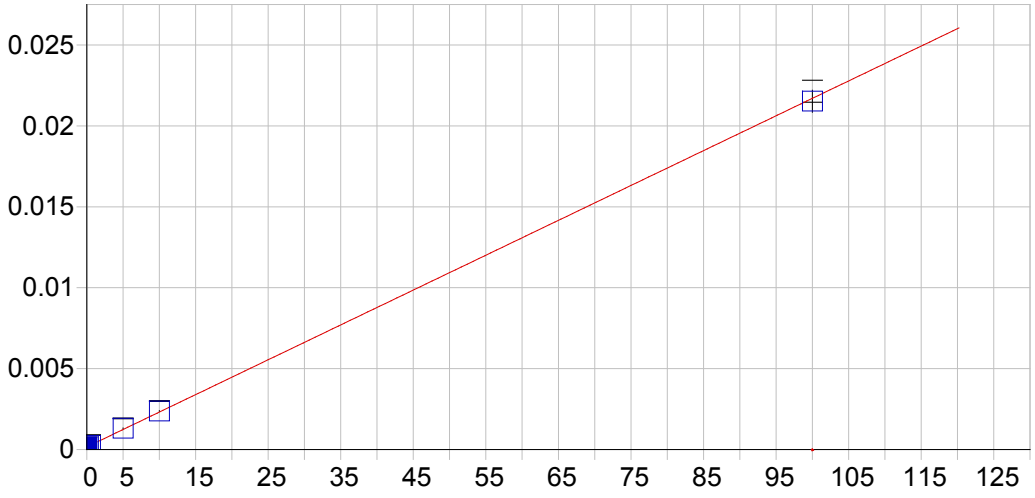


Ba 493.409 { 68}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.006327	Re-Slope:	1.000000
A1 (Gain):	0.000602	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.001562		
Predicted MDL:	0.627645		
Predicted MQL:	2.092149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.36142	.361	.000	-.00611	.000	1
CalibStd=100	1000.0	997.13	-2.87	-.287	.59435	.013	1
CalibStd=100	10000.	10000.	.264	.003	6.0178	.301	1
CalibStd=100	100.00	102.24	2.24	2.24	.05526	.002	1

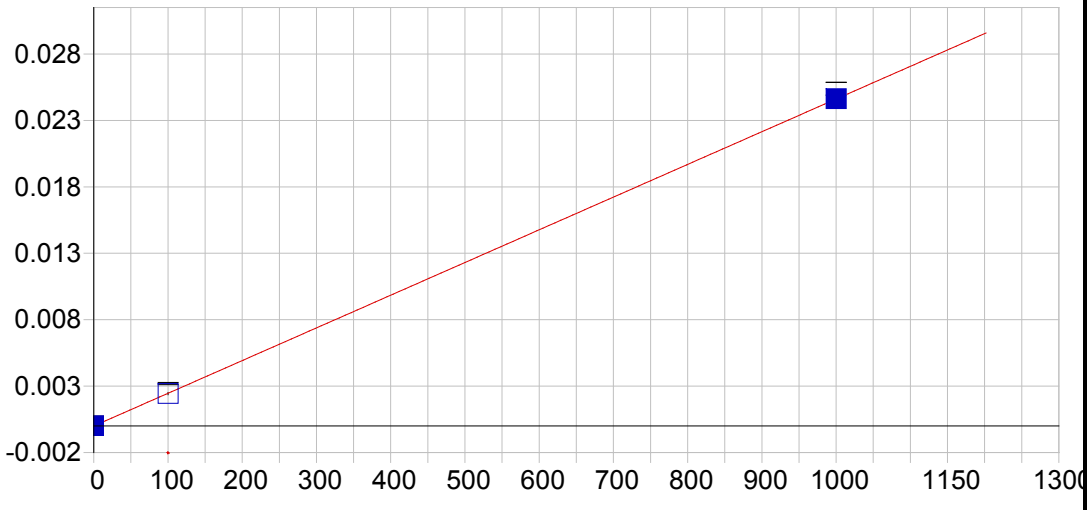


Be 313.042 {108}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000163	Re-Slope:	1.000000
A1 (Gain):	0.000215	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999125	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.183315		
Predicted MQL:	0.611049		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00024	.000	.000	.00016	.000	1
CalibStd=10	10.000	10.277	.277	2.77	.00238	.000	1
CalibStd=100	100.00	99.181	-.819	-.819	.02152	.001	1
CalibStd=0.5	.50000	.53540	.035	7.08	.00028	.000	1
CalibStd=5	5.0000	5.3019	.302	6.04	.00130	.000	1
CalibStd=0.2	.25000	.45458	.205	81.8	.00026	.000	1

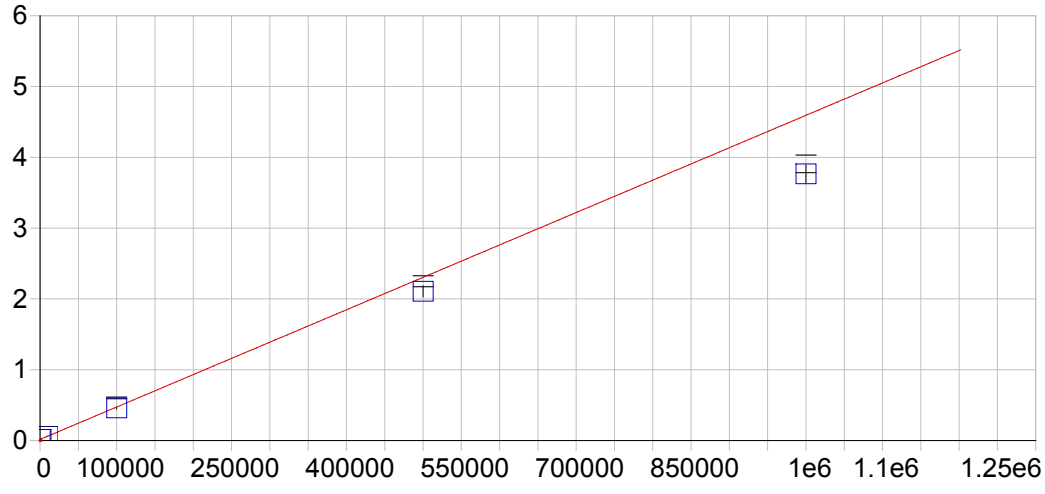


Be 234.861 {144}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000025	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.964489		
Predicted MQL:	3.214962		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00072	.001	.000	.00000	.000	1
CalibStd=100	1000.0	1000.8	.796	.080	.02463	.000	1
CalibStd=100	100.00	99.204	-.796	-.796	.00244	.000	1

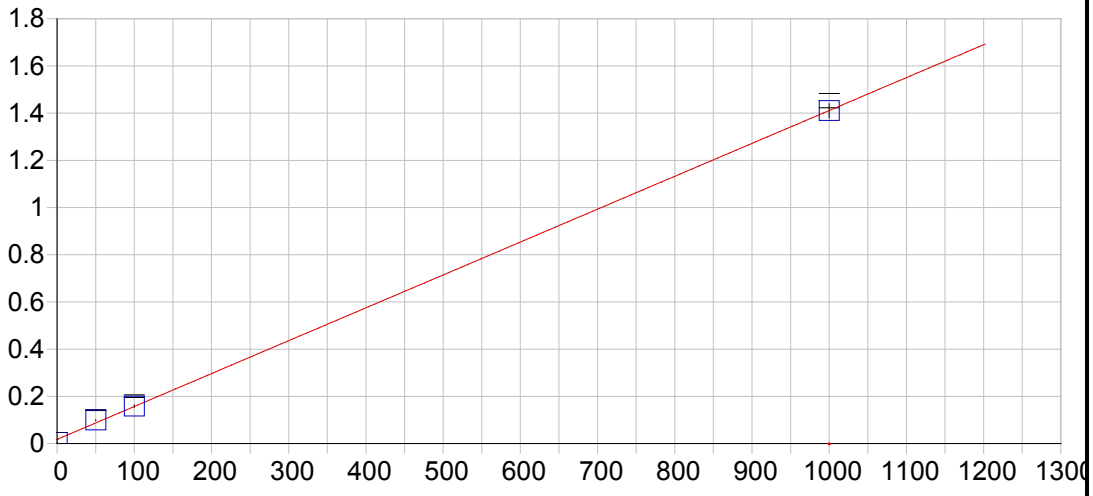


Ca 317.933 {106}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.016066	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	8.823242		
Predicted MQL:	29.410807		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.04748	-.047	.000	.01607	.000	1
CalibStd=100	10000.	10042.	42.3	.423	.06203	.001	1
CalibStd=500	500000.	456930.	-43100.	-8.61	2.1076	.078	1
CalibStd-100	1000000.	819250.	-181000.	-18.1	3.7661	.125	1
CalibStd=100	1000.0	1050.1	50.1	5.01	.02087	.000	1
CalibStd-100	100000.	97019.	-2980.	-2.98	.46016	.012	1

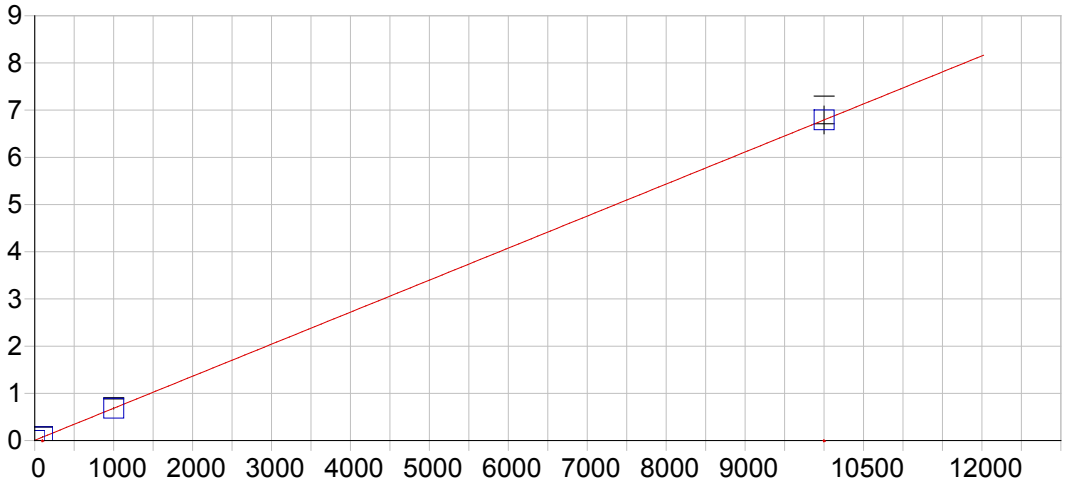


Ca 393.366 { 86}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.017679	Re-Slope:	1.000000
A1 (Gain):	0.001394	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.011784		
Predicted MDL:	0.070842		
Predicted MQL:	0.236139		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-8.5613	-8.56	.000	.00575	.000	1
CalibStd=50	50.000	58.301	8.30	16.6	.09892	.002	1
CalibStd=100	1000.0	999.51	-.490	-.049	1.4105	.030	1
CalibStd=100	100.00	100.75	.750	.750	.15808	.005	1

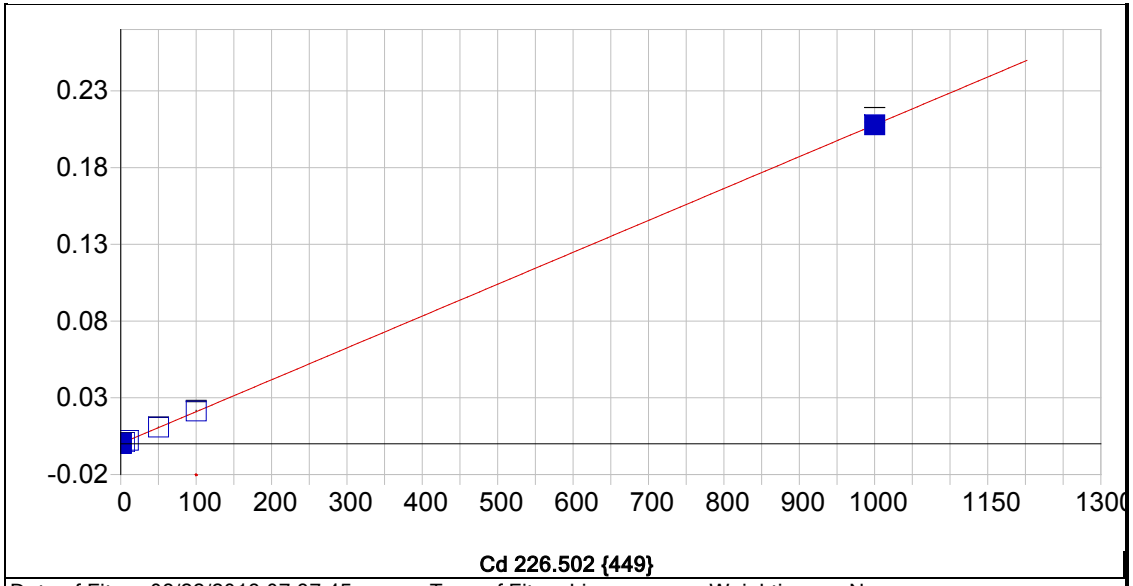


Ca 396.847 { 85}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.005051	Re-Slope:	1.000000
A1 (Gain):	0.000679	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.003587		
Predicted MDL:	0.108924		
Predicted MQL:	0.363079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.3422	-3.34	.000	.00278	.000	1
CalibStd=100	10000.	10000.	.230	.002	6.7923	.292	1
CalibStd=100	100.00	106.02	6.02	6.02	.07701	.003	1
CalibStd=100	1000.0	997.09	-2.91	-.291	.68178	.014	1

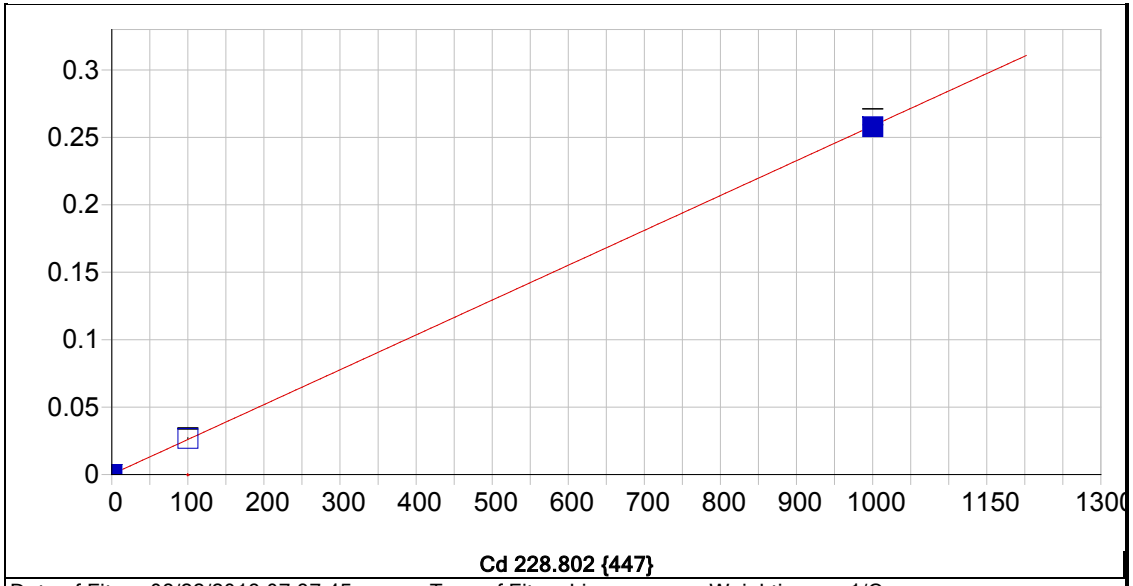


Cd 226.502 {449}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000178	Re-Slope:	1.000000
A1 (Gain):	0.000208	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000217		
Predicted MDL:	0.124773		
Predicted MQL:	0.415911		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.78155	-.782	.000	.00002	.000	1
CalibStd=50	50.000	51.073	1.07	2.15	.01079	.000	1
CalibStd=1	1.0000	.37356	-.626	-62.6	.00026	.000	1
CalibStd=0.5	.50000	-.27113	-.771	-154.	.00012	.000	1
CalibStd=5	5.0000	4.6508	-.349	-6.98	.00114	.000	1
CalibStd=100	100.00	101.89	1.89	1.89	.02134	.000	1
CalibStd=10	10.000	9.8006	-.199	-1.99	.00221	.000	1
CalibStd=100	1000.0	999.76	-.238	-.024	.20790	.005	1

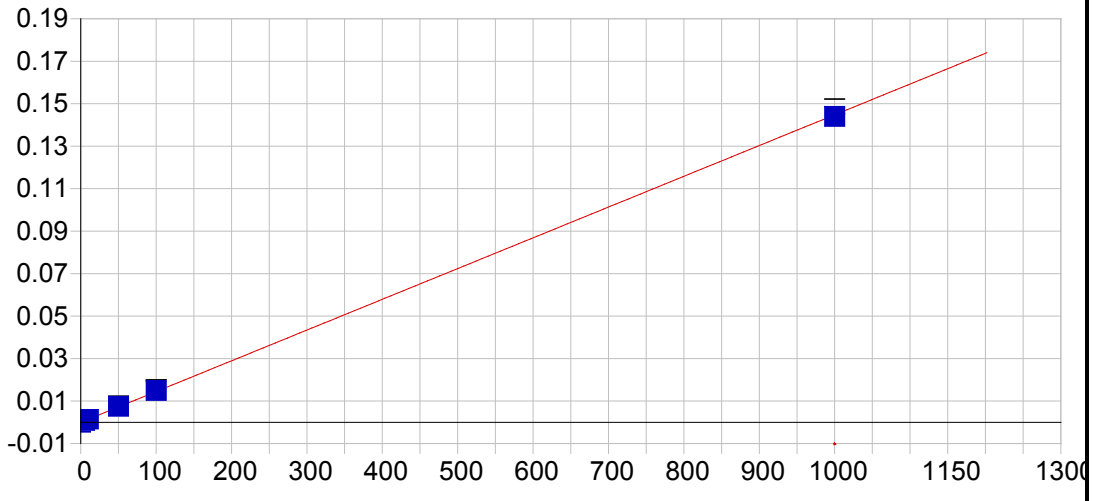


Cd 228.802 {447}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000159	Re-Slope:	1.000000
A1 (Gain):	0.000258	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.117006		
Predicted MQL:	0.390019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00264	-.003	.000	.00016	.000	1
CalibStd=100	1000.0	997.07	-2.93	-.293	.25781	.006	1
CalibStd=100	100.00	102.93	2.93	2.93	.02676	.001	1

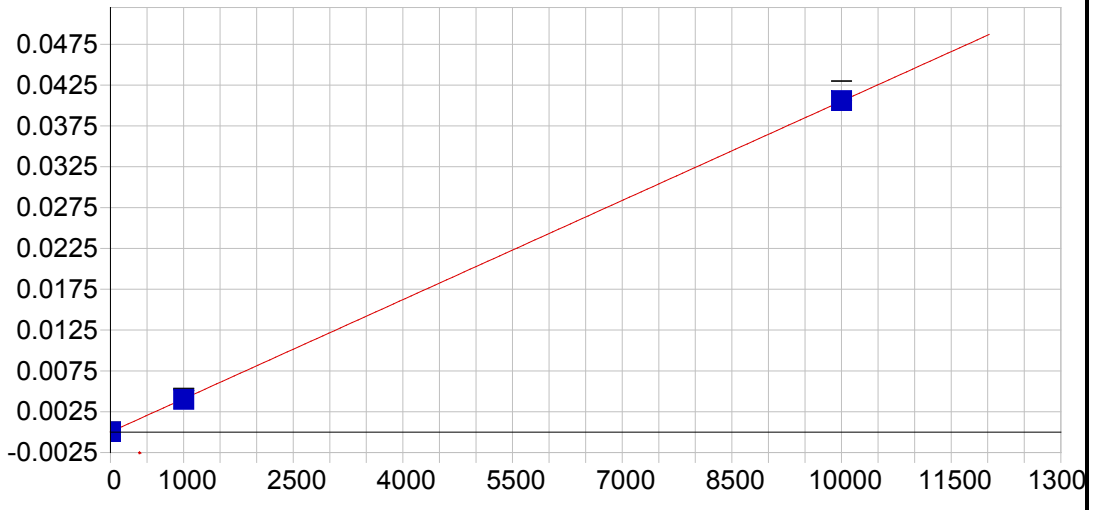


Co 228.616 {447}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000017	Re-Slope:	1.000000
A1 (Gain):	0.000145	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999899	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.187423		
Predicted MQL:	0.624744		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00085	-.001	.000	-.00002	.000	1
CalibStd=50	50.000	51.668	1.67	3.34	.00747	.000	1
CalibStd=10	10.000	10.225	.225	2.25	.00146	.000	1
CalibStd=5	5.0000	5.4309	.431	8.62	.00077	.000	1
CalibStd=100	100.00	103.26	3.26	3.26	.01495	.000	1
CalibStd=100	1000.0	994.42	-5.58	-.558	.14410	.003	1

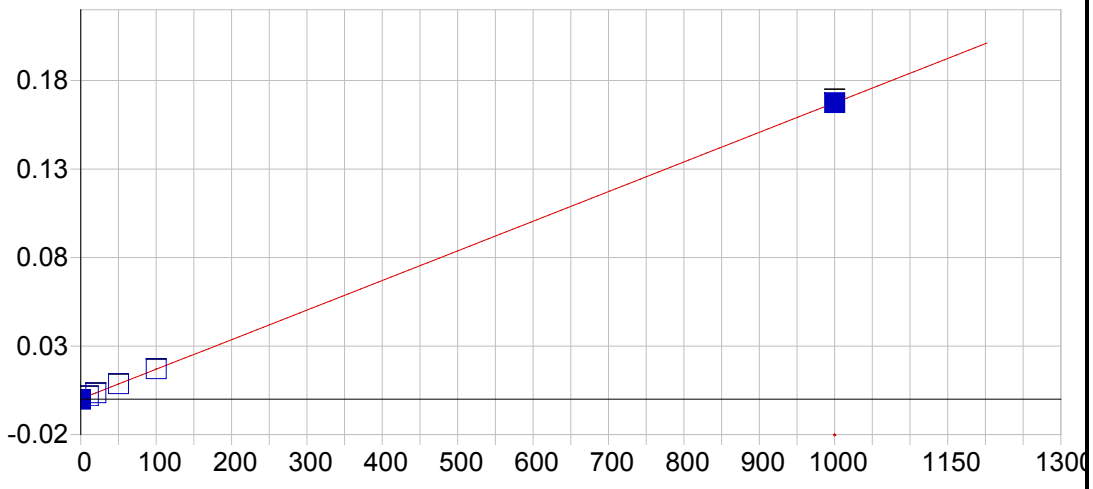


Co 238.892 {141}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000024	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	7.825054		
Predicted MQL:	26.083515		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01509	.015	.000	.00002	.000	1
CalibStd=100	1000.0	983.23	-16.8	-1.68	.00401	.000	1
CalibStd=100	10000.	10017.	16.8	.168	.04059	.001	1

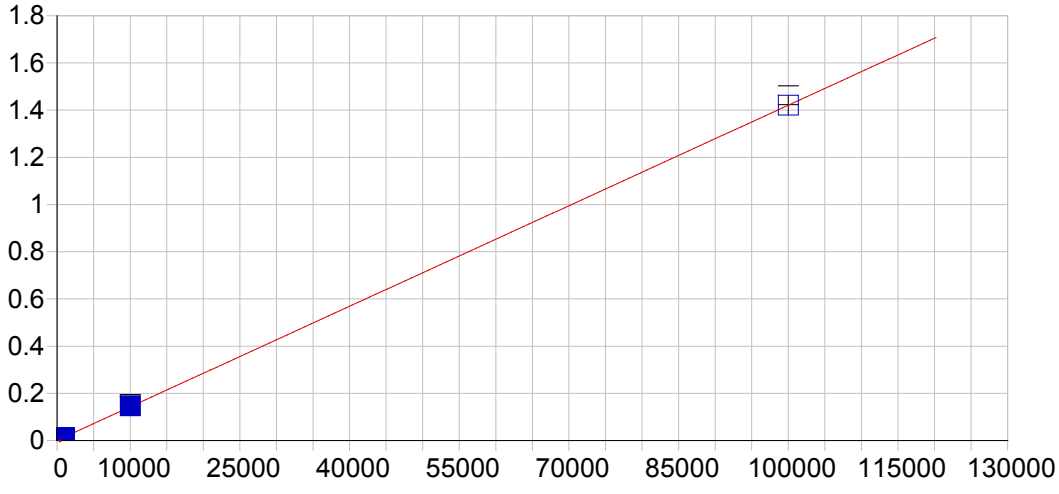


Cr 267.716 {126}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000136	Re-Slope:	1.000000
A1 (Gain):	0.000167	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	0.619606		
Predicted MQL:	2.065352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.2304	-1.23	.000	-.00007	.000	1
CalibStd=10	10.000	9.7014	-.299	-2.99	.00176	.000	1
CalibStd=50	50.000	50.697	.697	1.39	.00862	.000	1
CalibStd=100	1000.0	999.86	-.140	-.014	.16740	.002	1
CalibStd=20	20.000	19.863	-.137	-.684	.00346	.000	1
CalibStd=100	100.00	101.11	1.11	1.11	.01705	.000	1

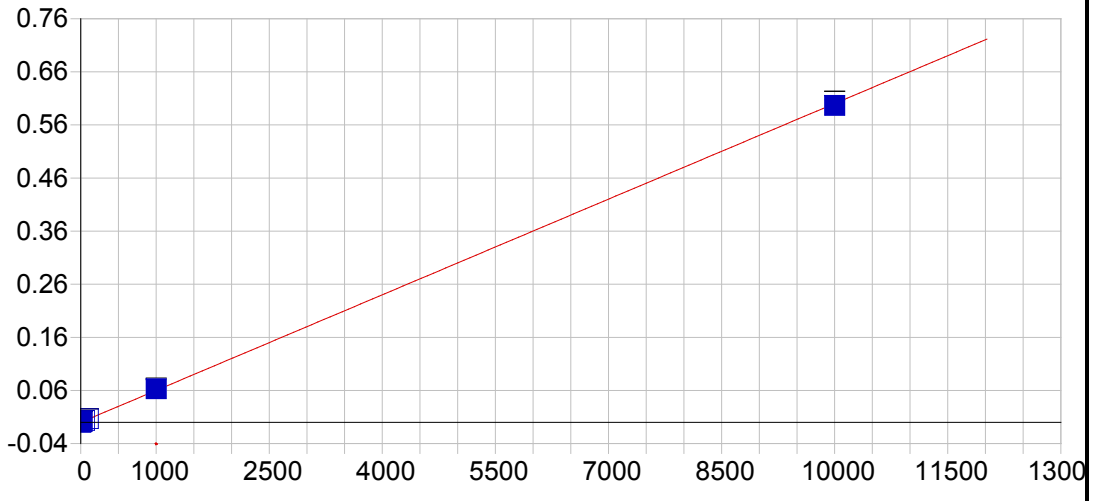


Cr 283.563 {119}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000946	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.002121		
Predicted MDL:	3.043007		
Predicted MQL:	10.143357		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-64.713	-64.7	.000	.00003	.000	1
CalibStd=50	50.000	-11.167	-61.2	-122.	.00079	.000	1
CalibStd=100	100.00	38.297	-61.7	-61.7	.00149	.000	1
CalibStd=100	1000.0	942.87	-57.1	-5.71	.01435	.000	1
CalibStd=100	10000.	10271.	271.	2.71	.14693	.005	1
CalibStd-100	100000.	99974.	-26.5	-.026	1.4206	.040	1

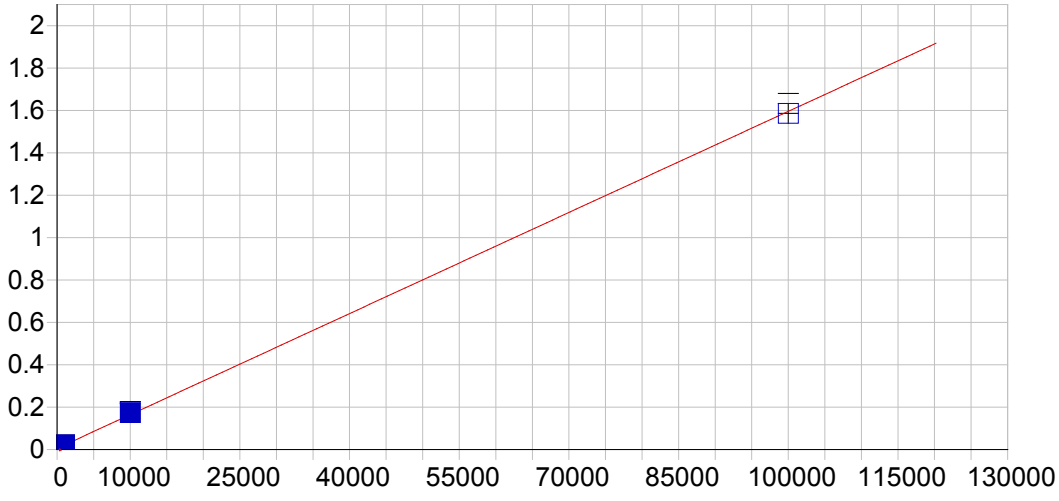


Cu 224.700 {450}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000048	Re-Slope:	1.000000
A1 (Gain):	0.000060	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999808	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.447650		
Predicted MQL:	1.492168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00338	-.003	.000	-.00005	.000	1
CalibStd=100	1000.0	1046.7	46.7	4.67	.06282	.001	1
CalibStd=50	50.000	54.190	4.19	8.38	.00321	.000	1
CalibStd=100	100.00	108.39	8.39	8.39	.00646	.000	1
CalibStd=10	10.000	11.313	1.31	13.1	.00063	.000	1
CalibStd=100	10000.	9936.2	-63.8	-.638	.59670	.008	1
CalibStd=5	5.0000	6.1863	1.19	23.7	.00032	.000	1
CalibStd=20	20.000	21.997	2.00	9.98	.00127	.000	1

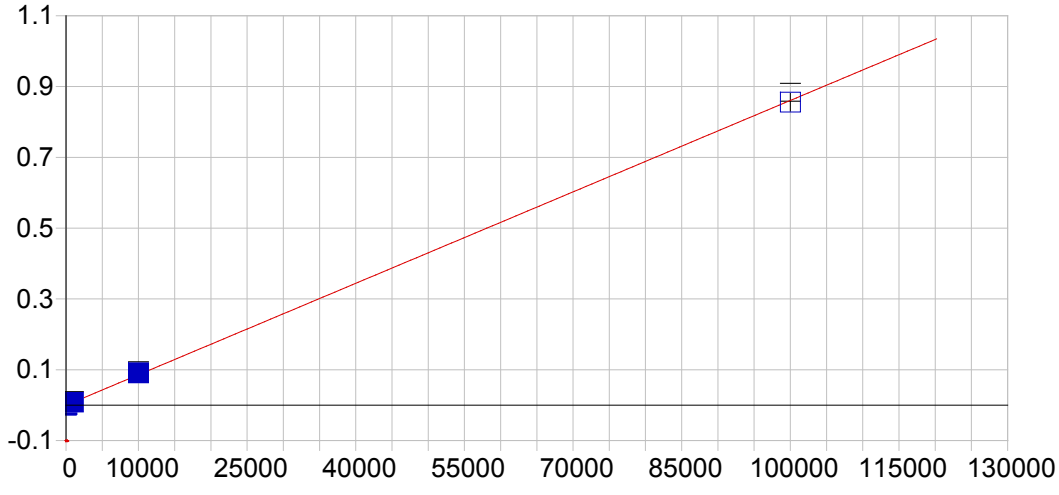


Cu 324.754 {104}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005426	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	4.283147		
Predicted MQL:	14.277156		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00614	-.006	.000	.00543	.000	1
CalibStd=100	1000.0	1022.4	22.4	2.24	.02168	.000	1
CalibStd=100	100.00	98.580	-1.42	-1.42	.00699	.000	1
CalibStd=100	10000.	10593.	593.	5.93	.17387	.005	1
CalibStd-100	100000.	99386.	-614.	-.614	1.5860	.047	1

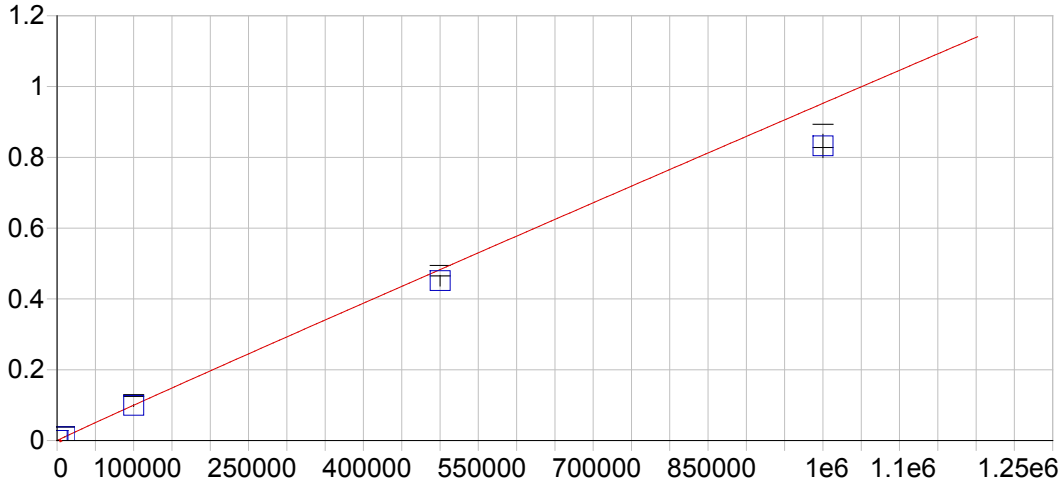


Cu 327.396 {103}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000225	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999838	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	9.288184		
Predicted MQL:	30.960615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00728	-.007	.000	-.00022	.000	1
CalibStd=20	20.000	23.608	3.61	18.0	-.00002	.000	1
CalibStd=50	50.000	54.370	4.37	8.74	.00024	.000	1
CalibStd=100	100.00	101.59	1.59	1.59	.00065	.000	1
CalibStd=100	1000.0	1031.0	31.0	3.10	.00865	.000	1
CalibStd=100	10000.	10553.	553.	5.53	.09063	.003	1
CalibStd-100	100000.	99407.	-593.	-.593	.85563	.025	1

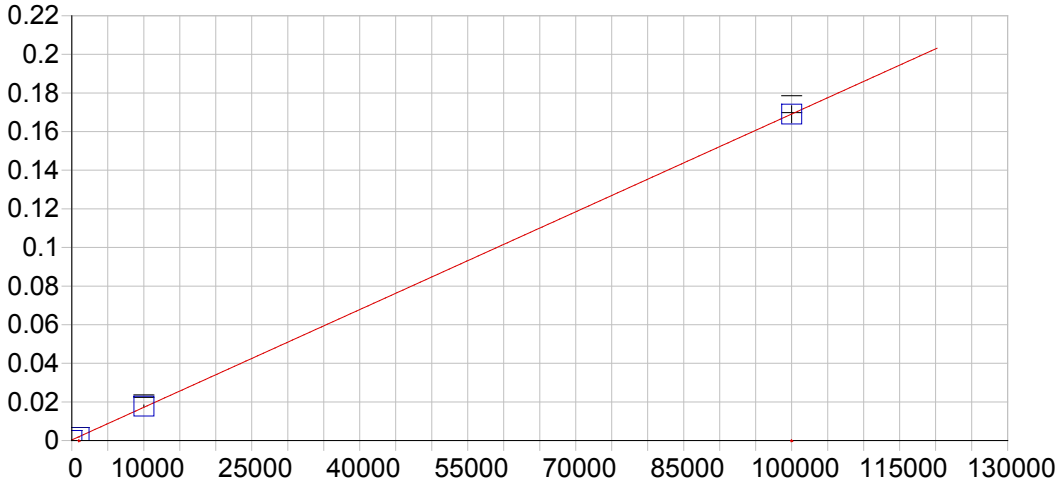


Fe 234.349 {144}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000042	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.980000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	13.554713		
Predicted MQL:	45.182378		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.07616	.076	.000	.00004	.000	1
CalibStd=100	10000.	9849.8	-150.	-1.50	.01033	.000	1
CalibStd=500	500000.	466870.	-33100.	-6.63	.45159	.015	1
CalibStd-100	1000000.	871260.	-129000.	-12.9	.83226	.033	1
CalibStd=100	1000.0	915.01	-85.0	-8.50	.00104	.000	1
CalibStd-100	100000.	99150.	-850.	-.850	.09896	.002	1

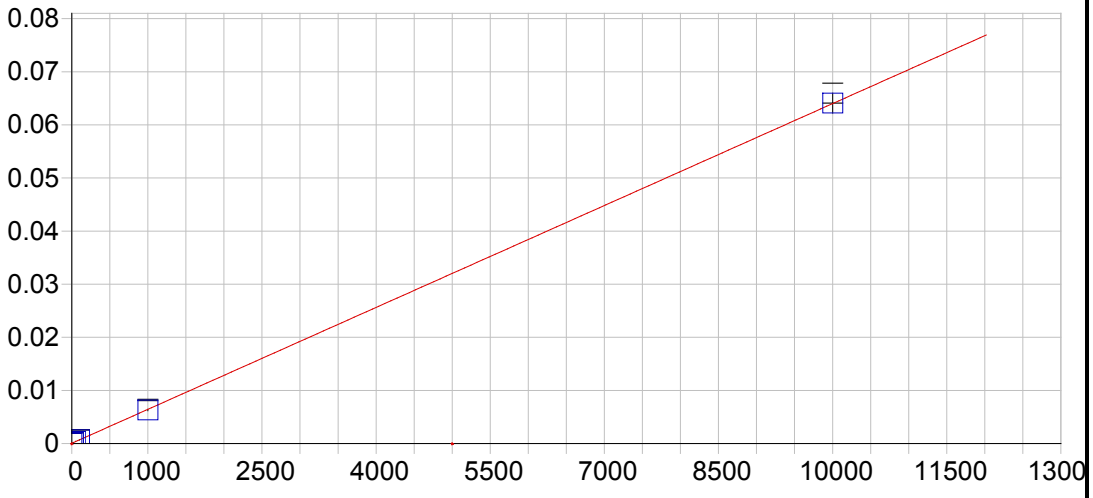


Fe 239.562 {141}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000308	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000489		
Predicted MDL:	10.649857		
Predicted MQL:	35.499524		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-168.46	-168.	.000	.00002	.000	1
CalibStd=100	1000.0	857.54	-142.	-14.2	.00176	.000	1
CalibStd=100	10000.	10344.	344.	3.44	.01777	.001	1
CalibStd-100	100000.	99967.	-33.0	-.033	.16903	.004	1

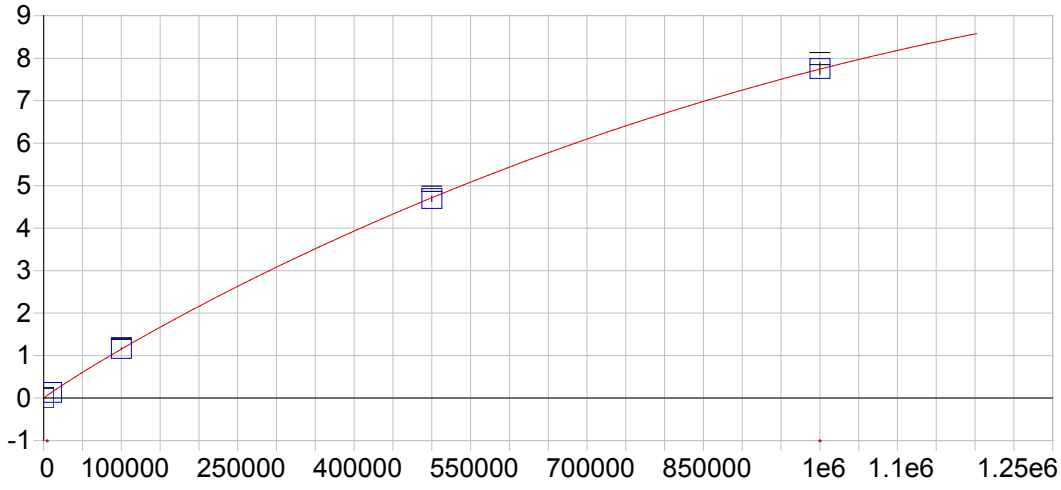


Fe 259.940 {130}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000045	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	5.061869		
Predicted MQL:	16.872897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00161	-.002	.000	.00004	.000	1
CalibStd=100	1000.0	979.22	-20.8	-2.08	.00631	.000	1
CalibStd=50	50.000	54.639	4.64	9.28	.00039	.000	1
CalibStd=100	100.00	101.76	1.76	1.76	.00070	.000	1
CalibStd=20	20.000	19.787	-.213	-1.06	.00017	.000	1
CalibStd=100	10000.	10015.	14.6	.146	.06409	.002	1

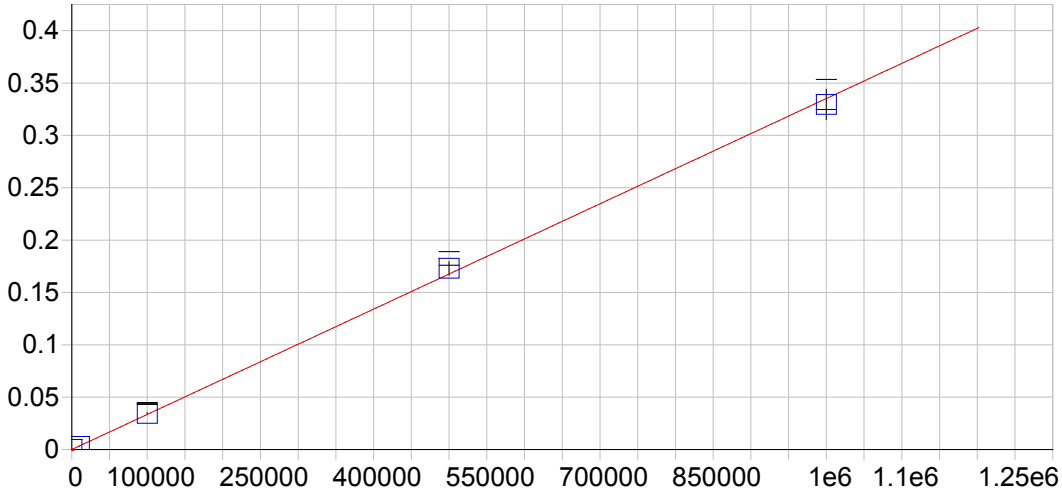


Mg 202.582 {466}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000106	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.950000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000421		
Predicted MDL:	0.975994		
Predicted MQL:	3.253314		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04105	.041	.000	-.00010	.000	1
CalibStd=500	500000.	496970.	-3030.	-.606	4.6932	.062	1
CalibStd=100	10000.	9835.6	-164.	-1.64	.13053	.002	1
CalibStd-100	1000000.	1002300.	2250.	.225	7.7555	.143	1
CalibStd-100	100000.	101320.	1320.	1.32	1.1650	.019	1

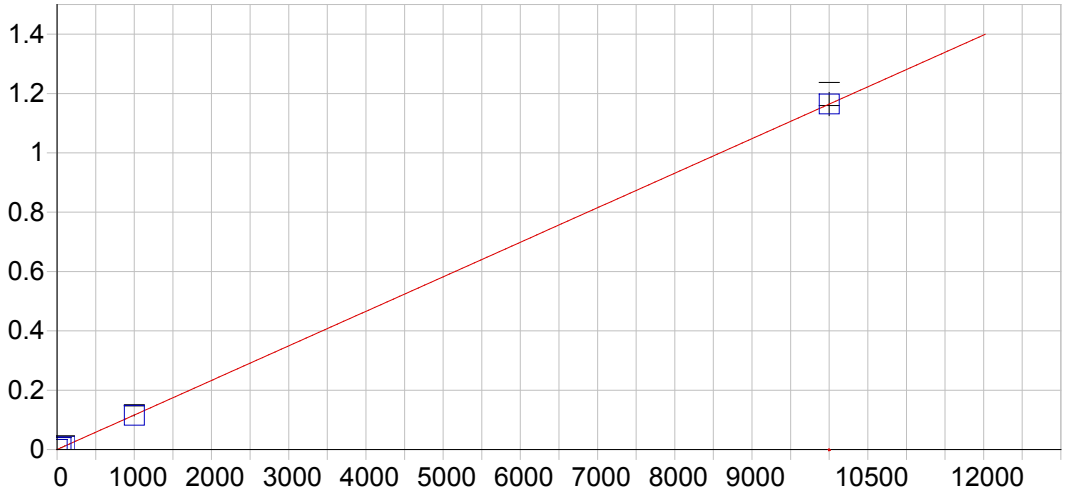


Mg 279.079 {121}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999679	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	58.813815		
Predicted MQL:	196.046051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.89774	.898	.000	.00001	.000	1
CalibStd=500	500000.	515990.	16000.	3.20	.17298	.006	1
CalibStd=100	10000.	8706.8	-1290.	-12.9	.00293	.000	1
CalibStd-100	1000000.	982830.	-17200.	-1.72	.32947	.014	1
CalibStd-100	100000.	102470.	2470.	2.47	.03436	.001	1

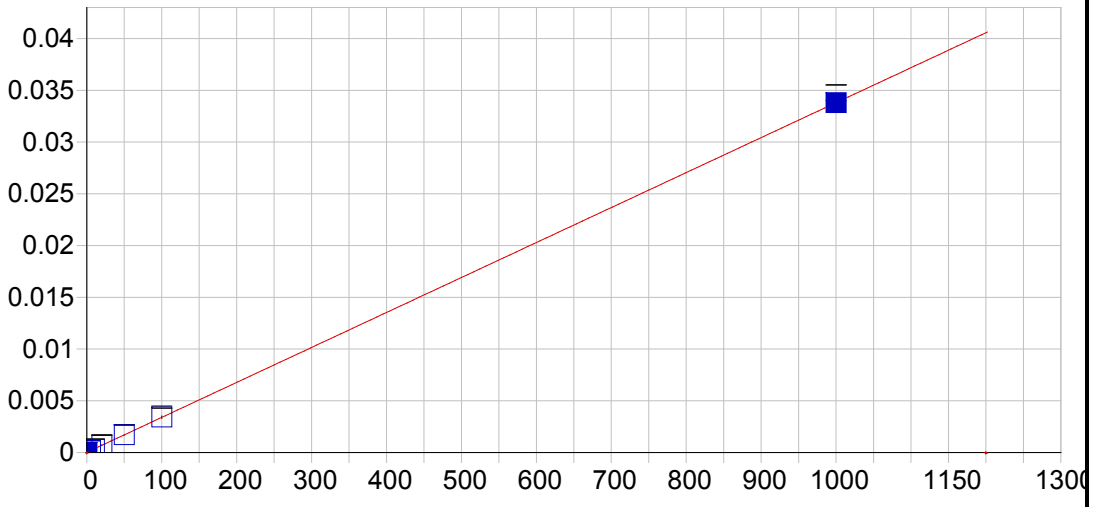


Mg 280.270 {120}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000055	Re-Slope:	1.000000
A1 (Gain):	0.000116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000859		
Predicted MDL:	0.193848		
Predicted MQL:	0.646160		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.6026	2.60	.000	.00036	.000	1
CalibStd=100	1000.0	988.77	-11.2	-1.12	.11518	.002	1
CalibStd=100	10000.	10001.	1.07	.011	1.1645	.039	1
CalibStd=100	100.00	103.20	3.20	3.20	.01207	.000	1
CalibStd=50	50.000	54.356	4.36	8.71	.00638	.000	1

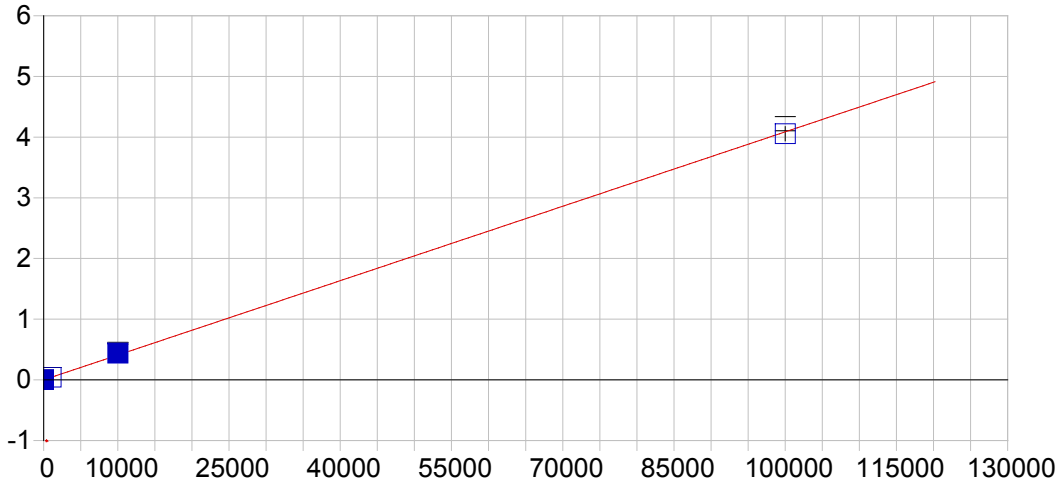


Mn 257.610 {131}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000017	Re-Slope:	1.000000
A1 (Gain):	0.000034	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.704326		
Predicted MQL:	2.347755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00013	.000	.000	.00002	.000	1
CalibStd=10	10.000	9.1677	-.832	-8.32	.00033	.000	1
CalibStd=50	50.000	49.952	-.048	-.095	.00171	.000	1
CalibStd=20	20.000	20.666	.666	3.33	.00072	.000	1
CalibStd=100	100.00	100.58	.577	.577	.00342	.000	1
CalibStd=5	5.0000	5.0933	.093	1.87	.00019	.000	1
CalibStd=100	1000.0	999.54	-.456	-.046	.03379	.001	1

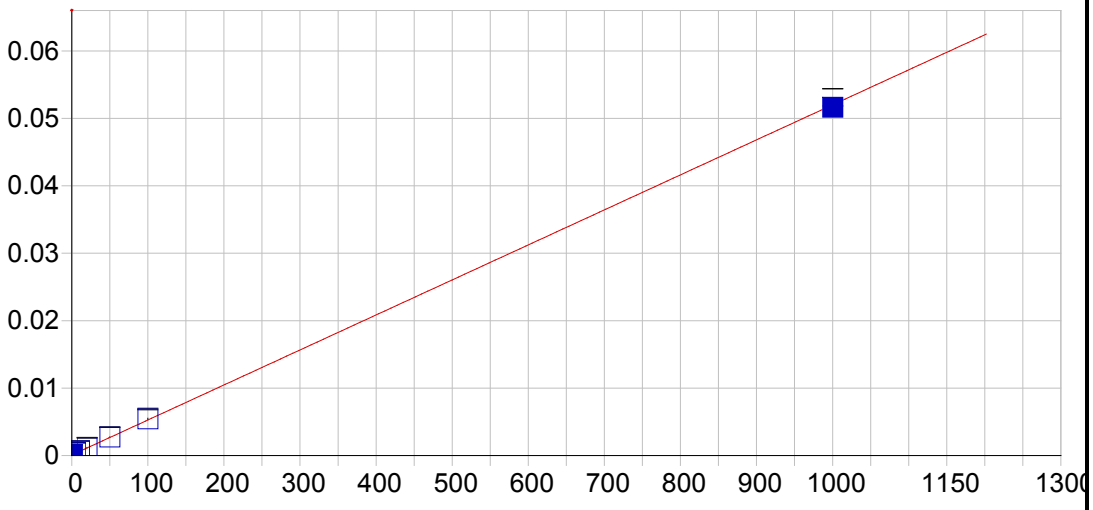


Mn 259.373 {130}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999733	Status:	OK.
Std Error of Est:	0.000445		
Predicted MDL:	0.914474		
Predicted MQL:	3.048247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.10901	-.109	.000	.00000	.000	1
CalibStd=100	10000.	10718.	718.	7.18	.43854	.014	1
CalibStd-100	100000.	99236.	-764.	-.764	4.0553	.117	1
CalibStd=100	1000.0	1044.9	44.9	4.49	.04270	.001	1

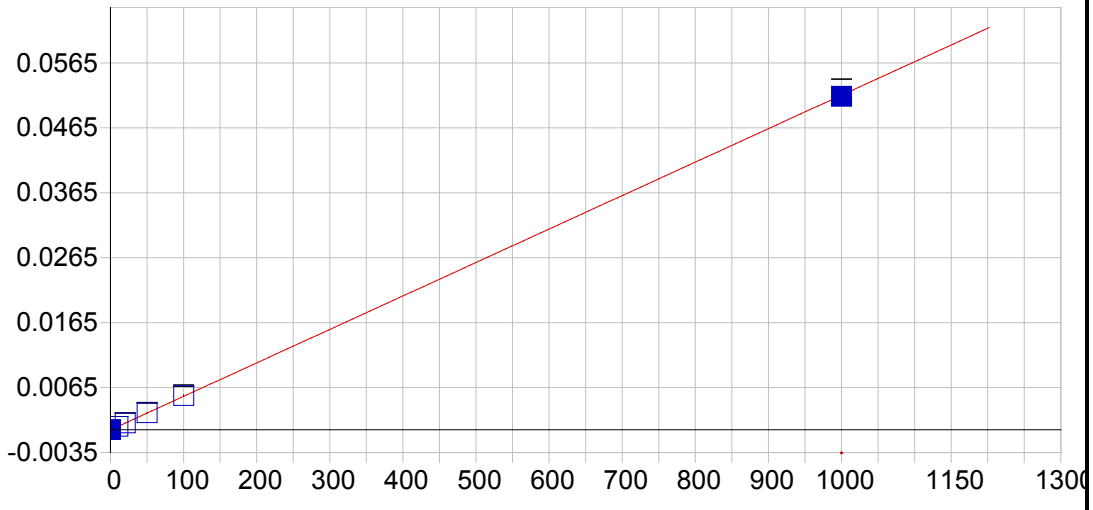


Mo 203.844 {465}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000080	Re-Slope:	1.000000
A1 (Gain):	0.000052	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999694	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.432697		
Predicted MQL:	1.442324		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00066	-.001	.000	.00008	.000	1
CalibStd=50	50.000	50.779	.779	1.56	.00272	.000	1
CalibStd=1	1.0000	1.1909	.191	19.1	.00014	.000	1
CalibStd=20	20.000	20.824	.824	4.12	.00116	.000	1
CalibStd=10	10.000	11.566	1.57	15.7	.00068	.000	1
CalibStd=100	100.00	102.73	2.73	2.73	.00542	.000	1
CalibStd=5	5.0000	6.1615	1.16	23.2	.00040	.000	1
CalibStd=100	1000.0	992.75	-7.25	-.725	.05163	.001	1

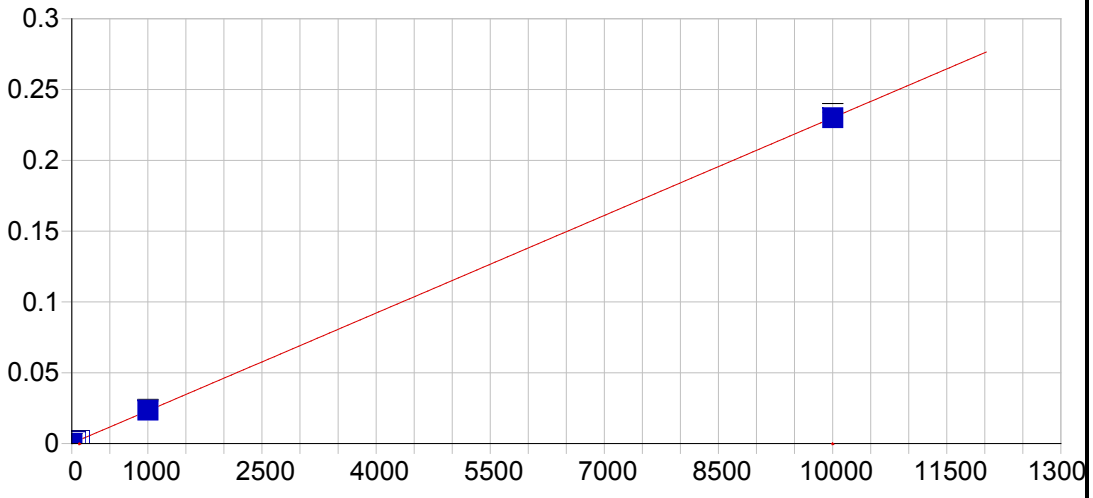


Mo 202.030 {467}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000052	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.288772		
Predicted MQL:	0.962575		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00078	-.001	.000	.00000	.000	1
CalibStd=50	50.000	50.894	.894	1.79	.00262	.000	1
CalibStd=20	20.000	20.368	.368	1.84	.00105	.000	1
CalibStd=10	10.000	10.235	.235	2.35	.00053	.000	1
CalibStd=100	100.00	102.23	2.23	2.23	.00527	.000	1
CalibStd=100	1000.0	996.27	-3.73	-.373	.05134	.001	1

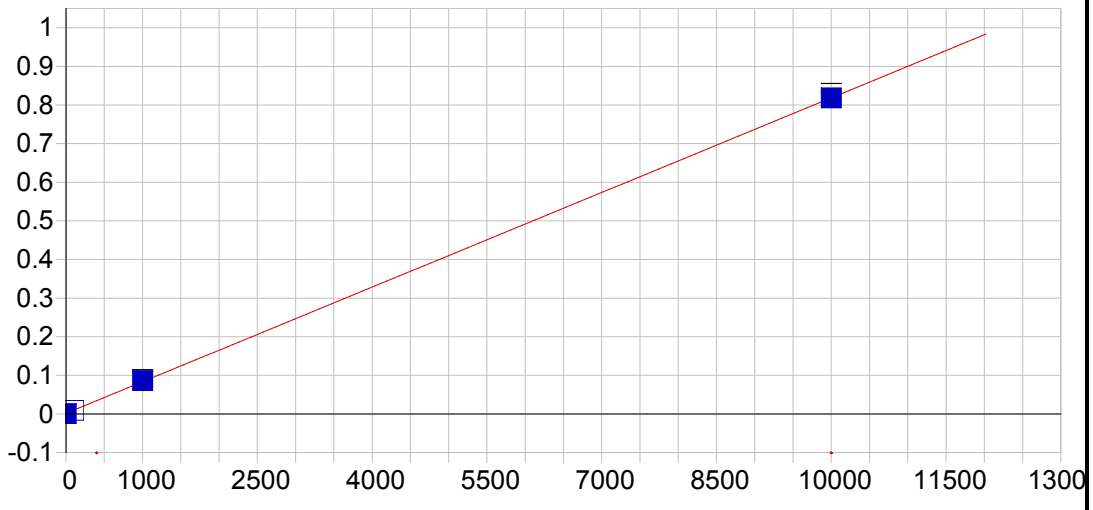


Mo 204.598 {465}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000182	Re-Slope:	1.000000
A1 (Gain):	0.000023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000249		
Predicted MDL:	0.707761		
Predicted MQL:	2.359203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-7.6315	-7.63	.000	.00001	.000	1
CalibStd=100	1000.0	1016.3	16.3	1.63	.02354	.001	1
CalibStd=100	10000.	9998.4	-1.58	-.016	.23003	.003	1
CalibStd=50	50.000	45.555	-4.45	-8.89	.00123	.000	1
CalibStd=100	100.00	97.393	-2.61	-2.61	.00242	.000	1

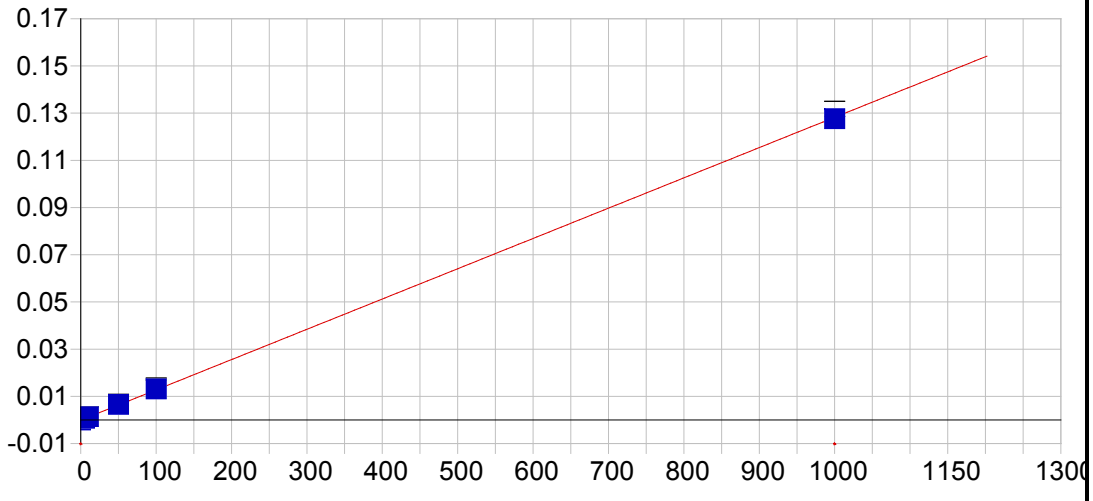


Ni 221.647 {452}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001588	Re-Slope:	1.000000
A1 (Gain):	0.000082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.002387		
Predicted MDL:	0.395119		
Predicted MQL:	1.317065		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-19.986	-20.0	.000	-.00004	.000	1
CalibStd=100	10000.	9996.7	-3.32	-.033	.81811	.012	1
CalibStd=100	100.00	89.009	-11.0	-11.0	.00886	.000	1
CalibStd=100	1000.0	1034.3	34.3	3.43	.08607	.002	1

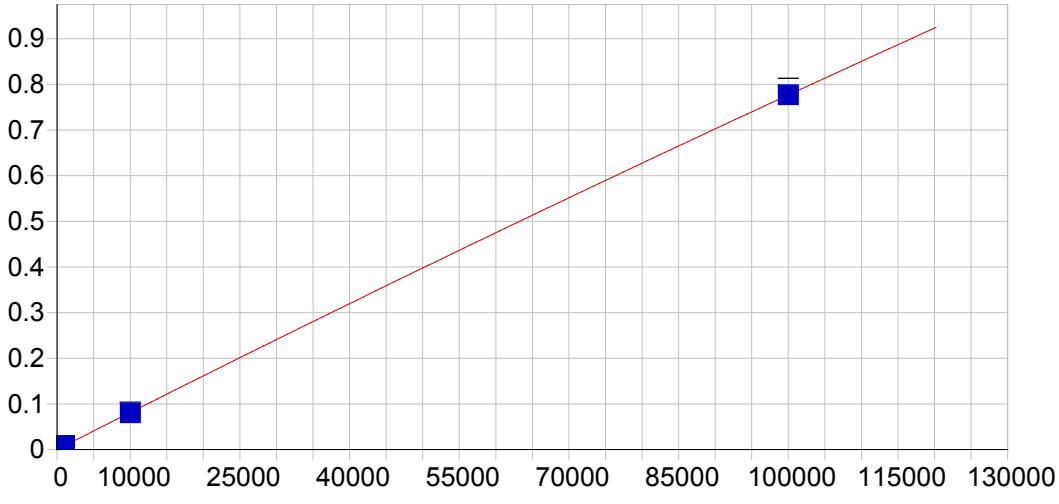


Ni 231.604 {445}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000088	Re-Slope:	1.000000
A1 (Gain):	0.000128	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999890	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.329765		
Predicted MQL:	1.099216		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00118	-.001	.000	-.00009	.000	1
CalibStd=50	50.000	51.532	1.53	3.06	.00653	.000	1
CalibStd=10	10.000	10.493	.493	4.93	.00126	.000	1
CalibStd=100	100.00	102.52	2.52	2.52	.01307	.000	1
CalibStd=5	5.0000	5.6816	.682	13.6	.00064	.000	1
CalibStd=100	1000.0	994.77	-5.23	-.523	.12756	.003	1

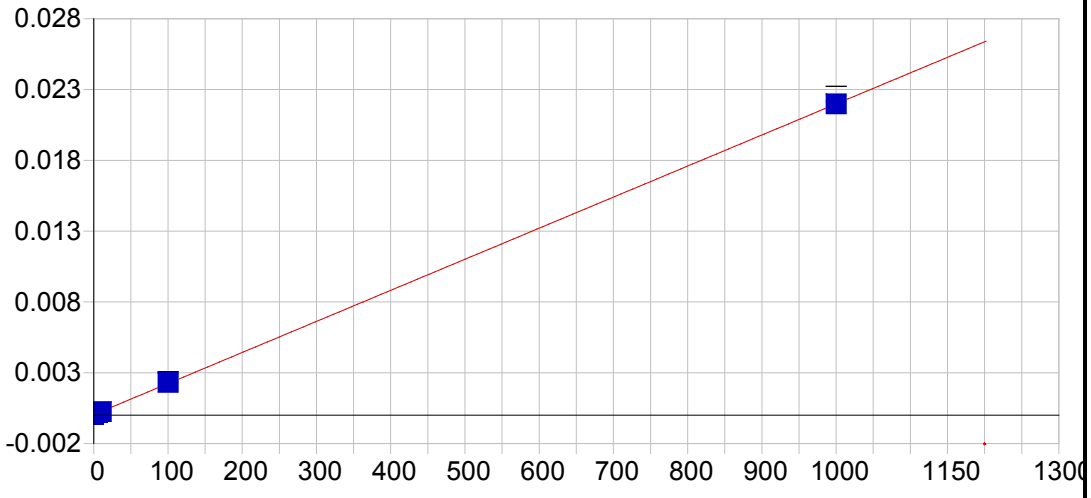


Pb 216.999 {455}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000070	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	3.060306		
Predicted MQL:	10.201019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02037	-.020	.000	.00007	.000	1
CalibStd=100	1000.0	1071.1	71.1	7.11	.00879	.000	1
CalibStd=100	10000.	9905.3	-94.7	-.947	.08042	.001	1
CalibStd-100	100000.	100010.	9.53	.010	.77694	.015	1
CalibStd=100	100.00	114.20	14.2	14.2	.00100	.000	1

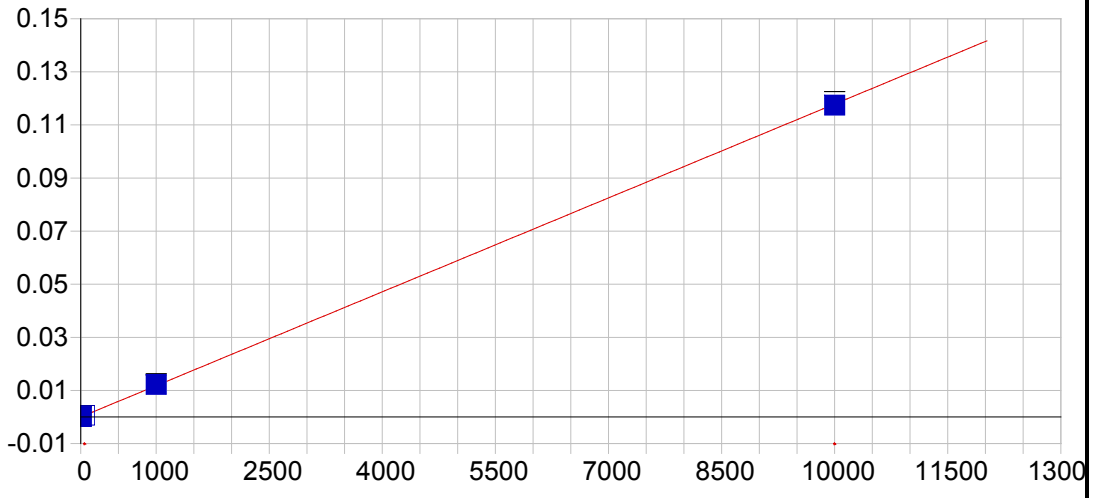


Pb 220.353 {453}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000043	Re-Slope:	1.000000
A1 (Gain):	0.000022	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	1.184141		
Predicted MQL:	3.947137		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4378	-1.44	.000	.00001	.000	1
CalibStd=10	10.000	8.7000	-1.30	-13.0	.00023	.000	1
CalibStd=100	100.00	103.17	3.17	3.17	.00231	.000	1
CalibStd=5	5.0000	4.8670	-.133	-2.66	.00015	.000	1
CalibStd=100	1000.0	999.70	-.304	-.030	.02198	.001	1

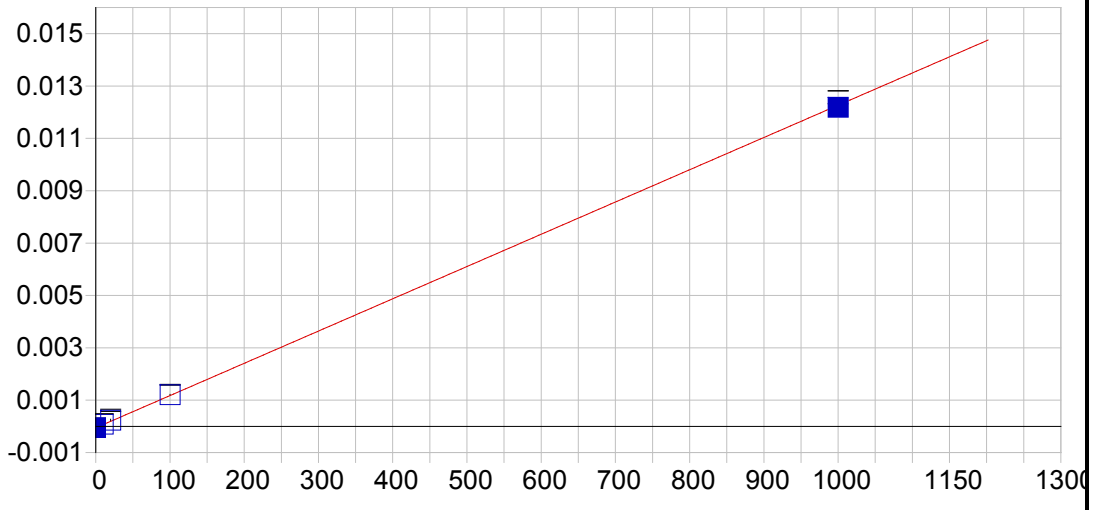


Sb 206.833 {463}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.607581		
Predicted MQL:	5.358602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00127	-.001	.000	-.00001	.000	1
CalibStd=100	1000.0	1035.0	35.0	3.50	.01220	.000	1
CalibStd=10	10.000	10.316	.316	3.16	.00012	.000	1
CalibStd=50	50.000	53.185	3.19	6.37	.00062	.000	1
CalibStd=100	10000.	9961.5	-38.5	-.385	.11743	.001	1

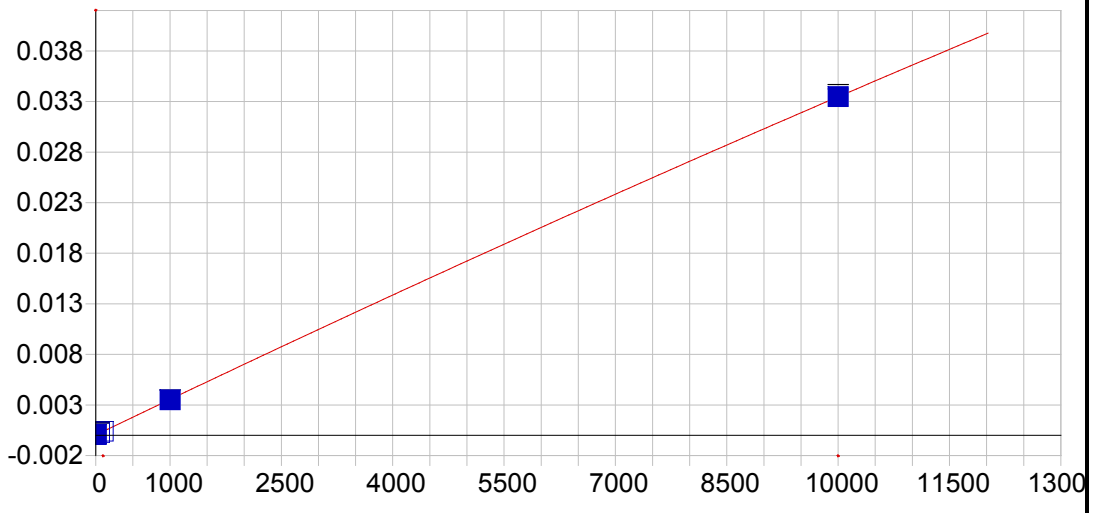


Sb 217.581 {455}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000057	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999677	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	2.241428		
Predicted MQL:	7.471426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00280	-.003	.000	-.00006	.000	1
CalibStd=100	1000.0	993.46	-6.54	-.654	.01219	.000	1
CalibStd=20	20.000	23.275	3.27	16.4	.00023	.000	1
CalibStd=10	10.000	11.002	1.00	10.0	.00008	.000	1
CalibStd=100	100.00	102.26	2.26	2.26	.00120	.000	1

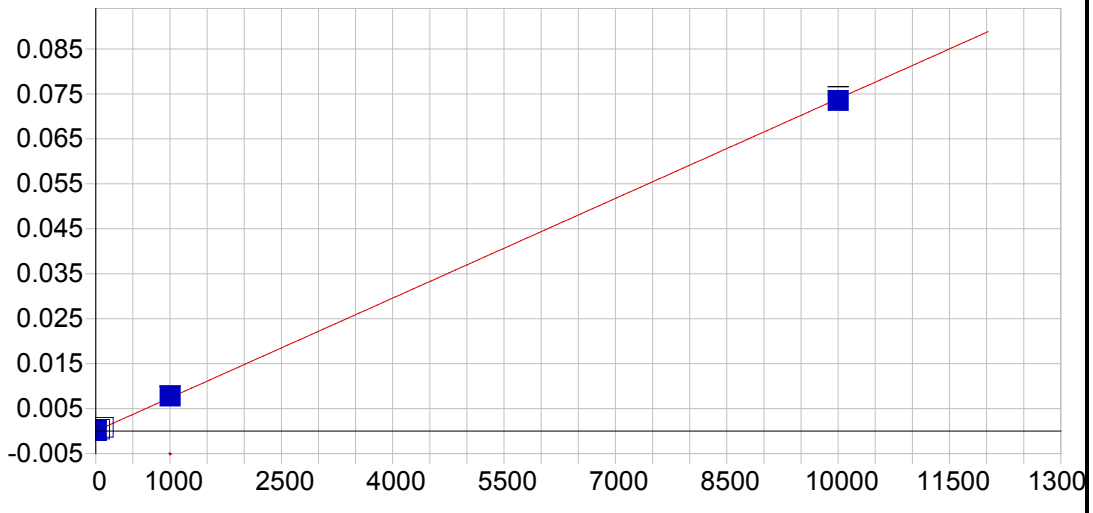


Se 196.090 {172}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000034	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999898	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	9.091077		
Predicted MQL:	30.303590		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00334	-.003	.000	.00003	.000	1
CalibStd=50	50.000	58.666	8.67	17.3	.00024	.000	1
CalibStd=100	1000.0	984.71	-15.3	-1.53	.00350	.000	1
CalibStd=10	10.000	11.393	1.39	13.9	.00007	.000	1
CalibStd=100	100.00	103.64	3.64	3.64	.00040	.000	1
CalibStd=100	10000.	10002.	1.61	.016	.03347	.000	1

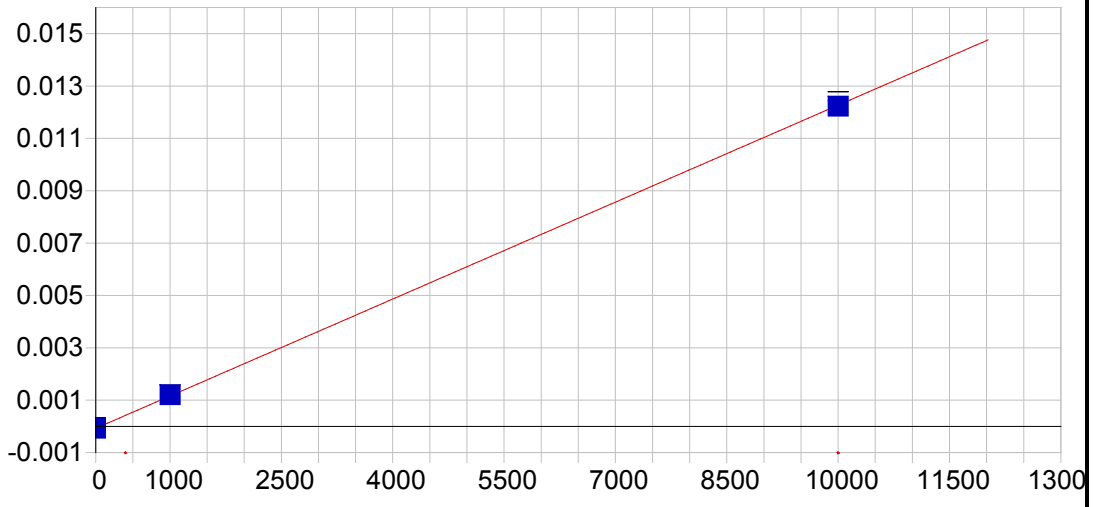


Se 196.090 {472}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999858	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	2.367356		
Predicted MQL:	7.891186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00156	-.002	.000	.00001	.000	1
CalibStd=50	50.000	53.278	3.28	6.56	.00041	.000	1
CalibStd=100	1000.0	1046.8	46.8	4.68	.00775	.000	1
CalibStd=10	10.000	9.8239	-.176	-1.76	.00009	.000	1
CalibStd=100	100.00	106.70	6.70	6.70	.00080	.000	1
CalibStd=100	10000.	9943.4	-56.6	-.566	.07349	.001	1

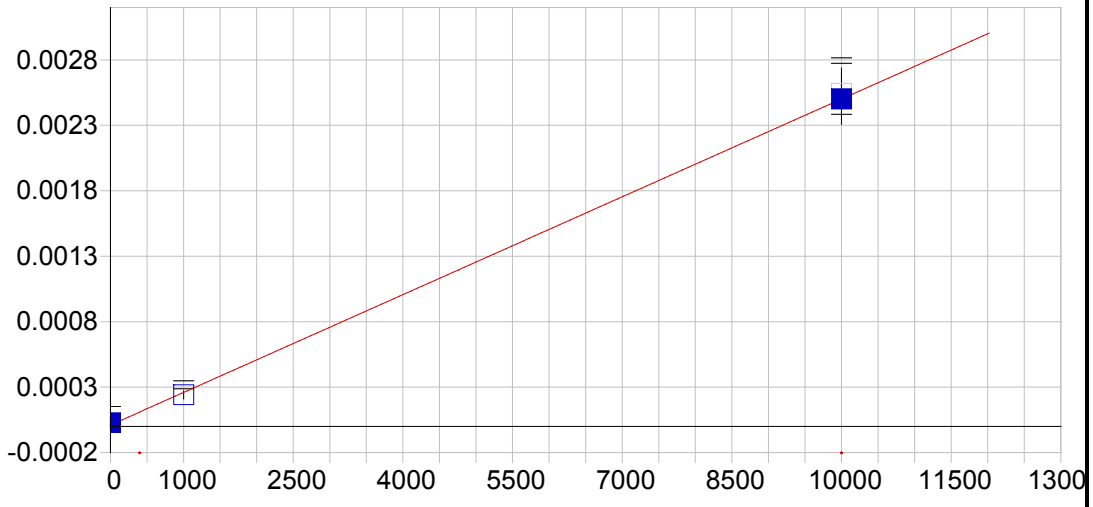


Se 206.279 {463}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000075	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	22.029591		
Predicted MQL:	73.431969		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03270	-.033	.000	-.00008	.000	1
CalibStd=100	1000.0	1036.3	36.3	3.63	.00120	.000	1
CalibStd=100	10000.	9963.7	-36.3	-.363	.01223	.000	1

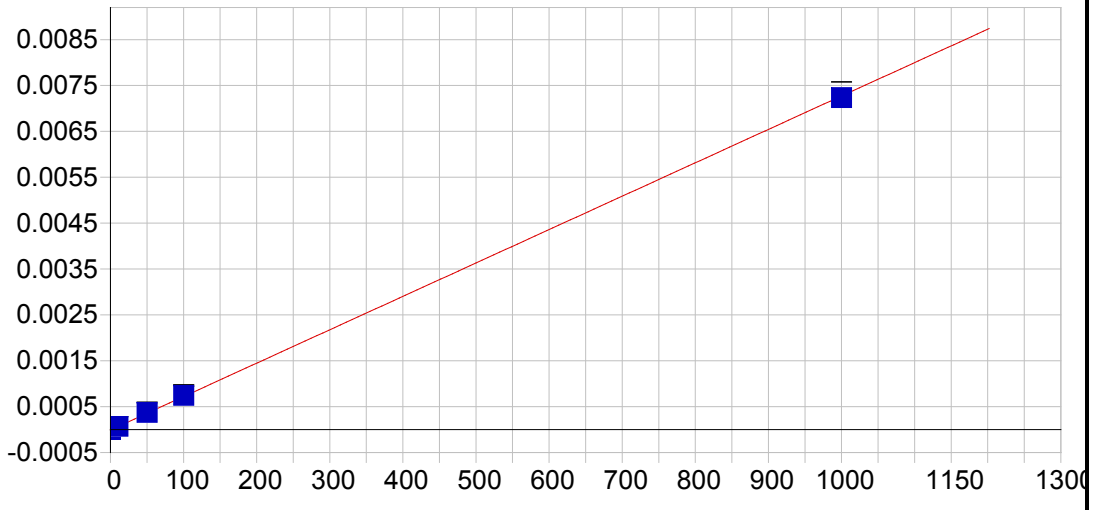


Tl 276.787 {122}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	166.007541		
Predicted MQL:	553.358471		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	65.391	65.4	.000	.00003	.000	1
CalibStd=100	1000.0	927.47	-72.5	-7.25	.00024	.000	1
CalibStd=100	10000.	10007.	7.14	.071	.00254	.000	1

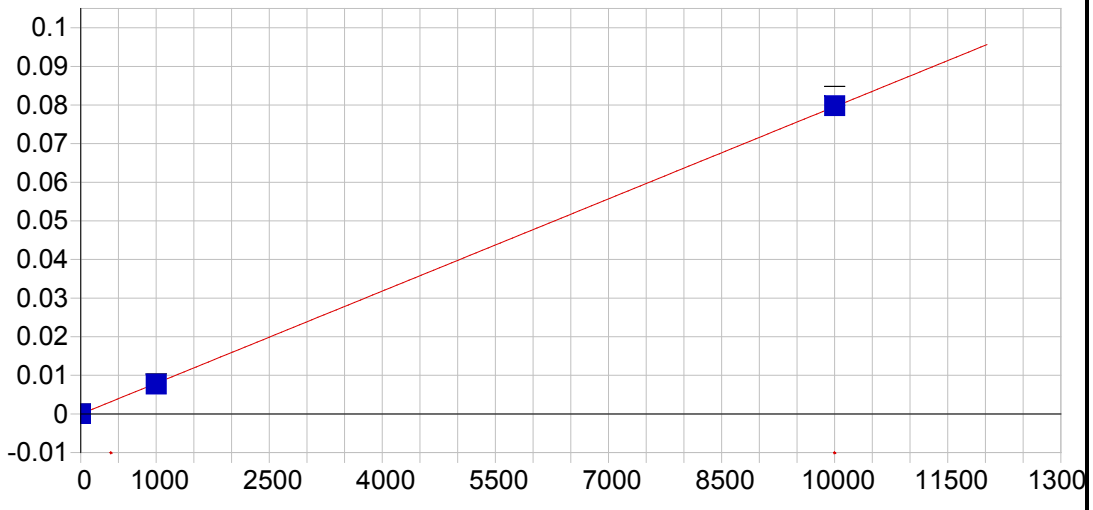


Tl 190.856 {477}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999911	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.720239		
Predicted MQL:	5.734131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00108	-.001	.000	-.00001	.000	1
CalibStd=50	50.000	51.897	1.90	3.79	.00037	.000	1
CalibStd=100	1000.0	994.71	-5.29	-.529	.00723	.000	1
CalibStd=100	100.00	102.93	2.93	2.93	.00074	.000	1
CalibStd=10	10.000	10.460	.460	4.60	.00007	.000	1

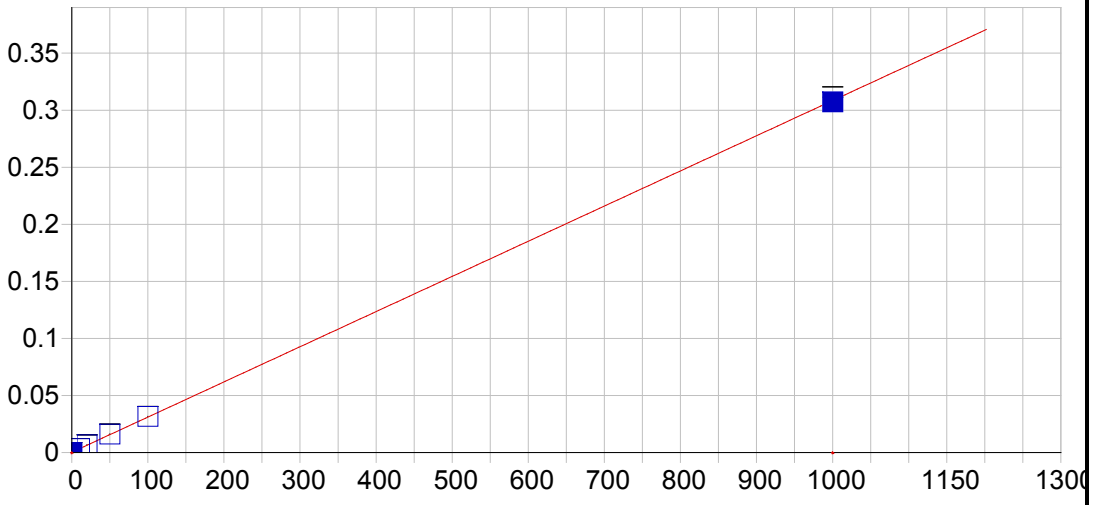


V 290.882 {116}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	8.007762		
Predicted MQL:	26.692538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02638	.026	.000	-.00003	.000	1
CalibStd=100	1000.0	970.69	-29.3	-2.93	.00770	.000	1
CalibStd=100	10000.	10029.	29.3	.293	.07980	.002	1

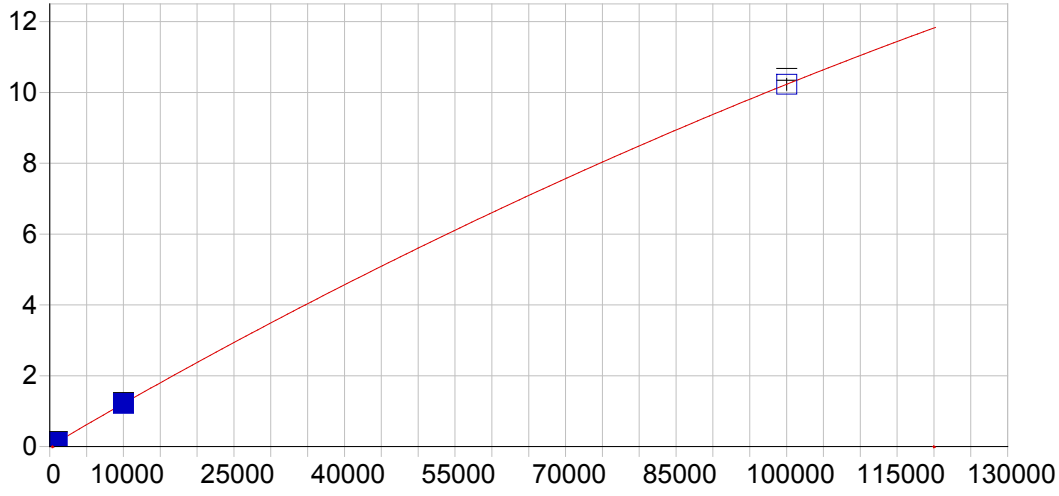


V 292.402 {115}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000252	Re-Slope:	1.000000
A1 (Gain):	0.000308	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.542872		
Predicted MQL:	1.809573		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00111	-.001	.000	.00025	.000	1
CalibStd=50	50.000	51.286	1.29	2.57	.01606	.000	1
CalibStd=100	1000.0	995.72	-4.28	-.428	.30713	.005	1
CalibStd=20	20.000	21.082	1.08	5.41	.00675	.000	1
CalibStd=10	10.000	10.178	.178	1.78	.00339	.000	1
CalibStd=100	100.00	101.73	1.73	1.73	.03160	.000	1

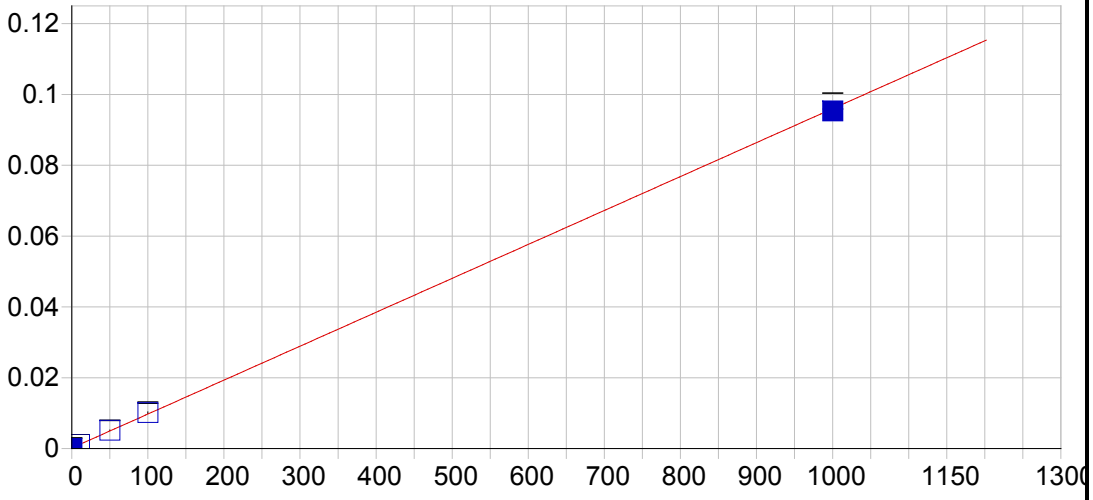


Zn 206.200 {463}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000424	Re-Slope:	1.000000
A1 (Gain):	0.000135	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.156004		
Predicted MQL:	0.520012		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	9999.6	-.421	-.004	1.2139	.018	1
Blank	.00000	.00000	.000	.000	.00003	.000	1
CalibStd=100	1000.0	1003.5	3.54	.354	.12680	.003	1
CalibStd-100	100000.	100000.	.006	.000	10.229	.167	1

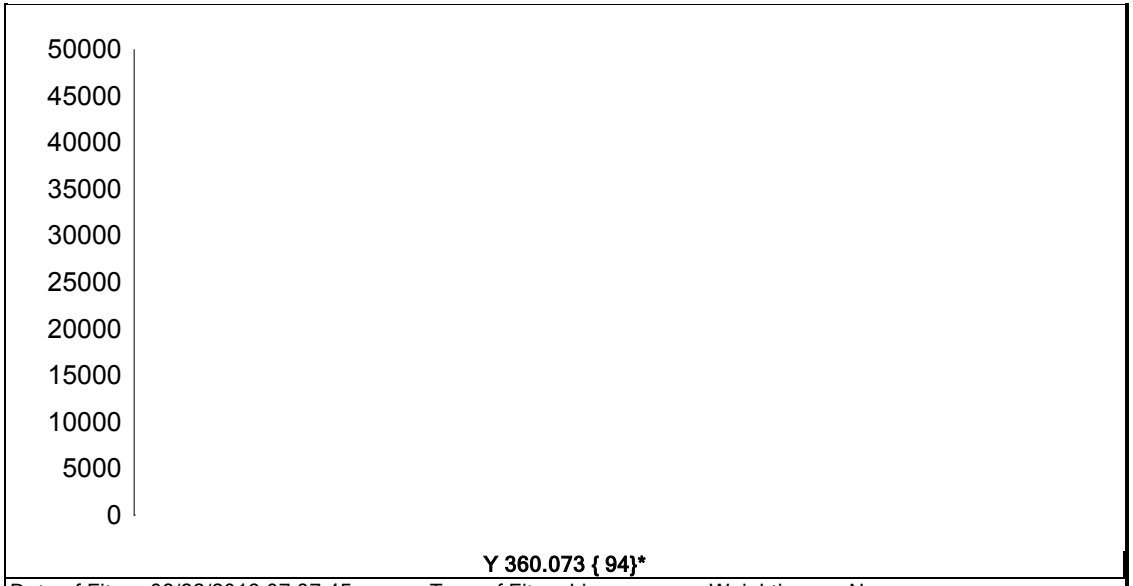


Zn 213.856 {458}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000156	Re-Slope:	1.000000
A1 (Gain):	0.000096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999805	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.169969		
Predicted MQL:	0.566565		

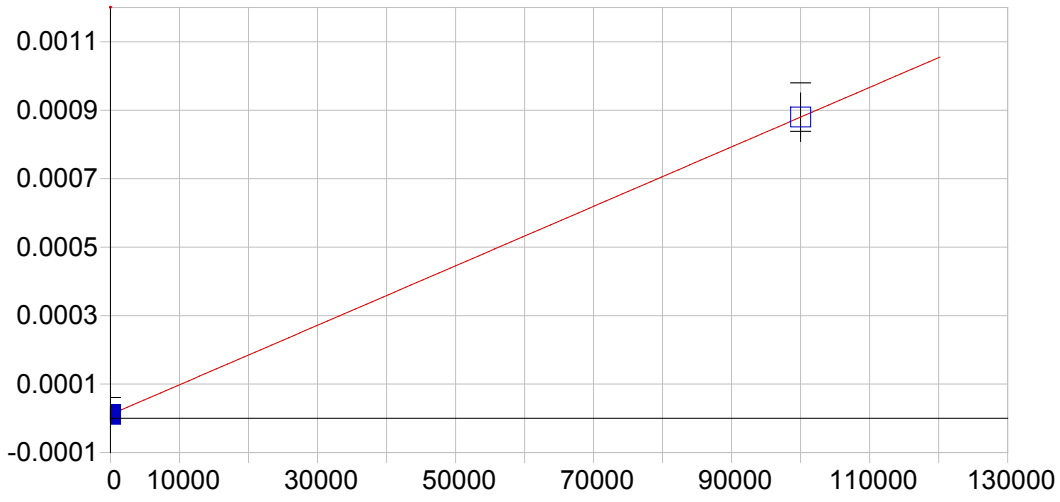
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00202	-.002	.000	.00016	.000	1
CalibStd=100	100.00	103.89	3.89	3.89	.01011	.000	1
CalibStd=50	50.000	51.960	1.96	3.92	.00513	.000	1
CalibStd=10	10.000	11.312	1.31	13.1	.00124	.000	1
CalibStd=100	1000.0	992.84	-7.16	-.716	.09530	.002	1



Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	41368.	141.	1

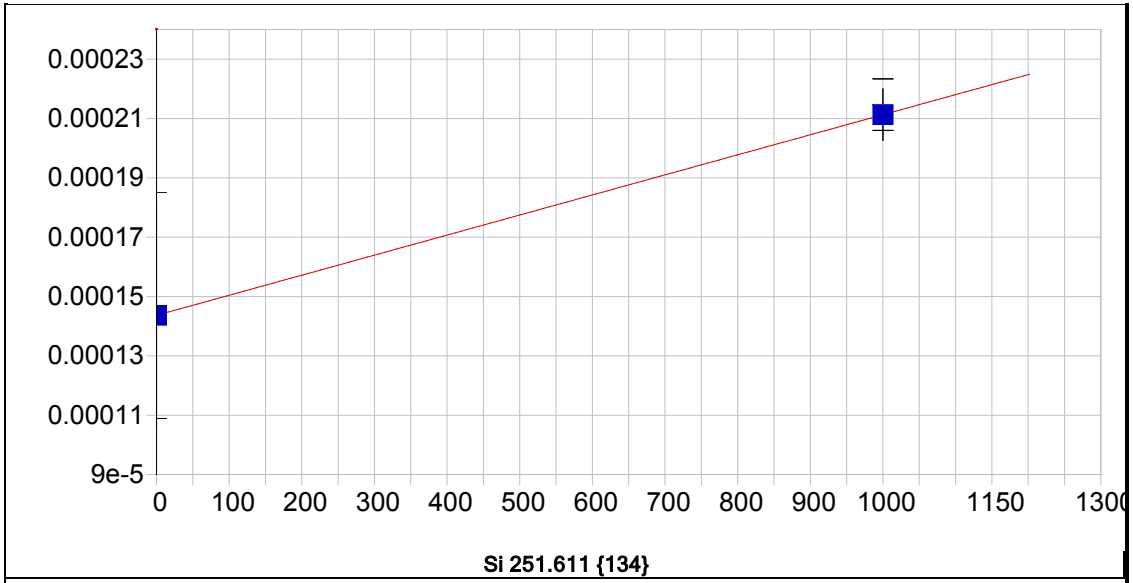


Na 330.298 {102}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7932.393427		
Predicted MQL:	26441.31142		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd-100	100000.	100000.	.000	.000	.00088	.000	1

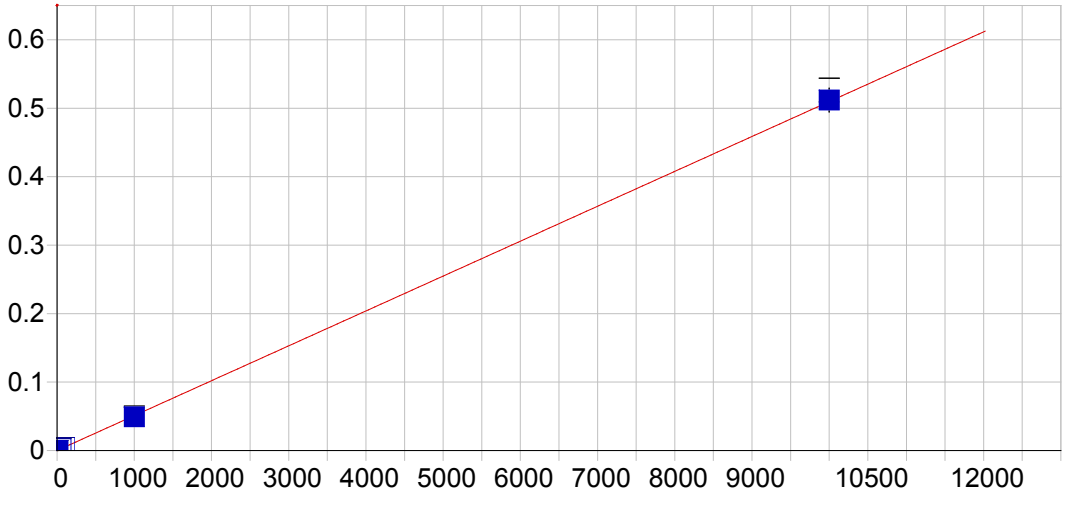


Si 251.611 {134}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000144	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	554.832417		
Predicted MQL:	1849.441389		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00014	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00021	.000	1

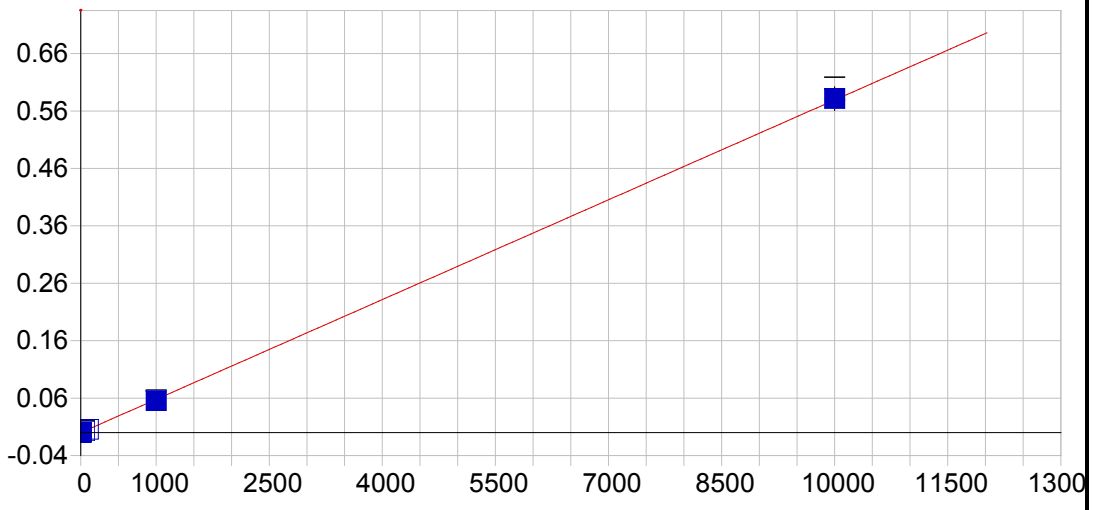


Ti 334.941 {101}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000060	Re-Slope:	1.000000
A1 (Gain):	0.000051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	1.041496		
Predicted MQL:	3.471654		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00045	.000	.000	.00006	.000	1
CalibStd=10	10.000	9.5739	-.426	-4.26	.00055	.000	1
CalibStd=100	100.00	97.004	-3.00	-3.00	.00500	.000	1
CalibStd=100	1000.0	963.82	-36.2	-3.62	.04918	.001	1
CalibStd=100	10000.	10042.	42.2	.422	.51185	.017	1
CalibStd=50	50.000	49.060	-.940	-1.88	.00256	.000	1
CalibStd=1	1.0000	.99758	-.002	-.242	.00011	.000	1
CalibStd=5	5.0000	3.3568	-1.64	-32.9	.00023	.000	1

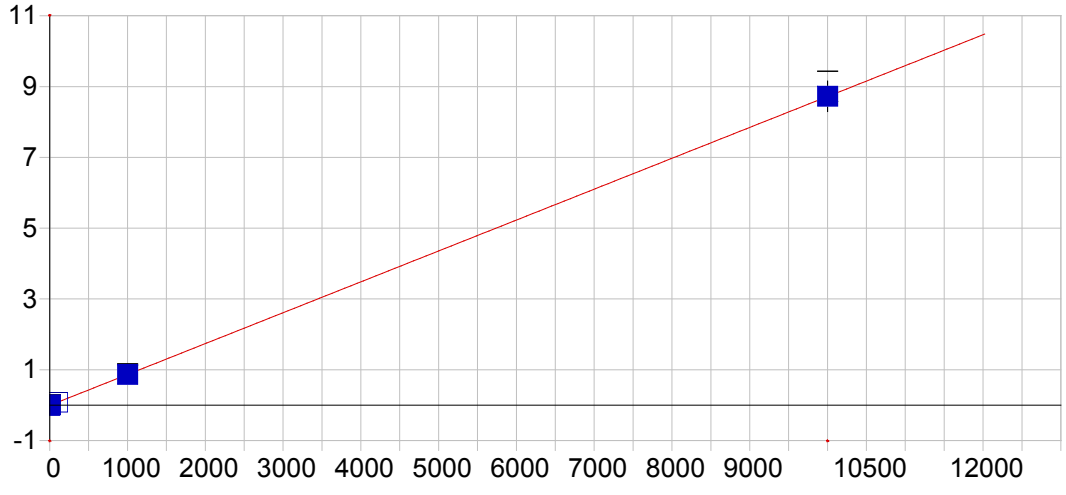


Ti 337.280 {100}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000132	Re-Slope:	1.000000
A1 (Gain):	0.000058	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	1.251536		
Predicted MQL:	4.171786		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00027	.000	.000	-.00013	.000	1
CalibStd=10	10.000	9.6169	-.383	-3.83	.00043	.000	1
CalibStd=100	100.00	97.211	-2.79	-2.79	.00550	.000	1
CalibStd=100	1000.0	961.55	-38.5	-3.85	.05557	.001	1
CalibStd=100	10000.	10041.	41.4	.414	.58155	.020	1
CalibStd=50	50.000	50.423	.423	.846	.00279	.000	1
CalibStd=1	1.0000	.82969	-.170	-17.0	-.00008	.000	1
CalibStd=5	5.0000	4.9440	-.056	-1.12	.00015	.000	1

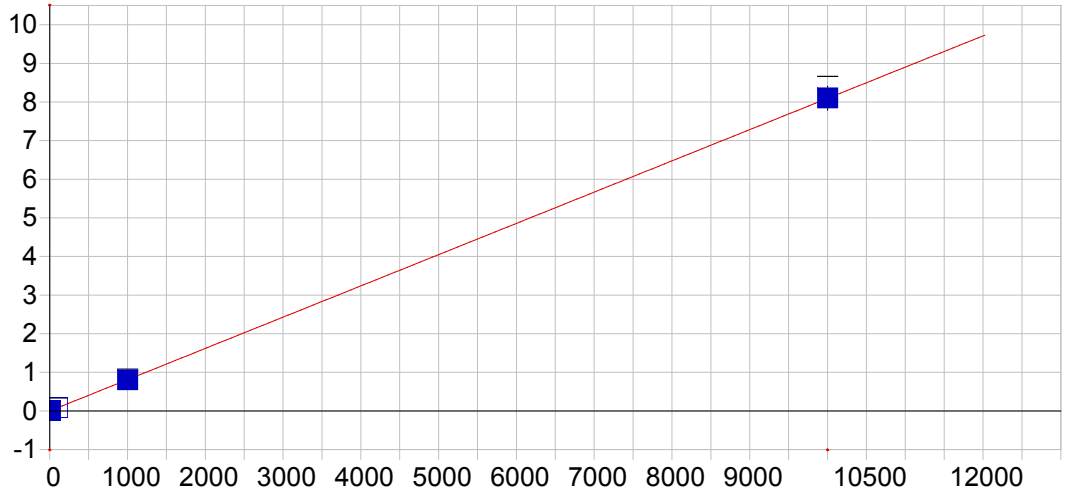


Sr 407.771 { 83}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.006879	Re-Slope:	1.000000
A1 (Gain):	0.000873	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.147155		
Predicted MQL:	0.490517		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00019	.000	.000	-.00688	.000	1
CalibStd=1	1.0000	1.0867	.087	8.67	-.00593	.000	1
CalibStd=5	5.0000	5.4061	.406	8.12	-.00216	.000	1
CalibStd=10	10.000	10.260	.260	2.60	.00207	.000	1
CalibStd=100	100.00	100.15	.150	.150	.08052	.003	1
CalibStd=100	1000.0	995.66	-4.34	-.434	.86200	.018	1
CalibStd=100	10000.	10003.	3.43	.034	8.7228	.428	1

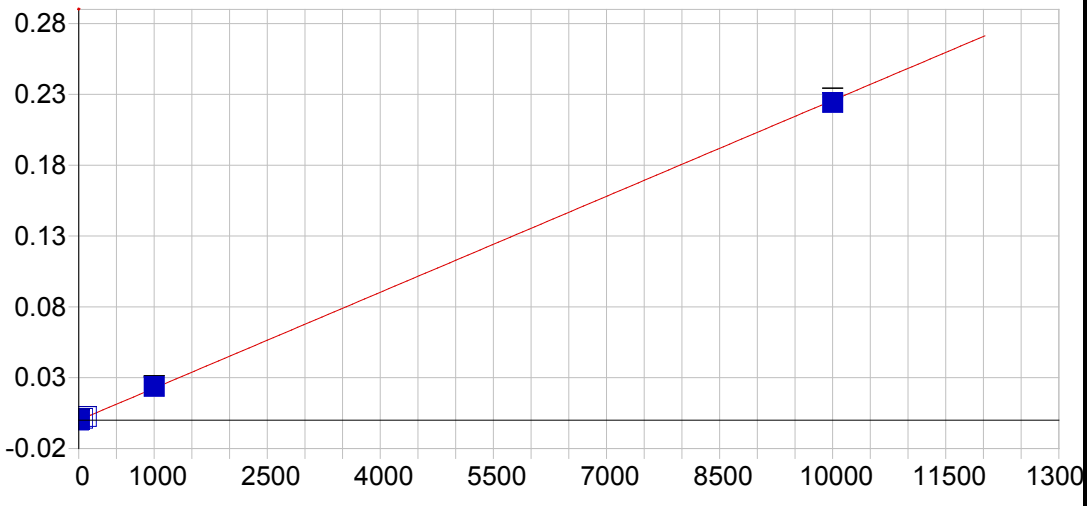


Sr 421.552 { 80}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000233	Re-Slope:	1.000000
A1 (Gain):	0.000809	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.152974		
Predicted MQL:	0.509912		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	-.00023	.000	1
CalibStd=1	1.0000	.97821	-.022	-2.18	.00056	.000	1
CalibStd=5	5.0000	5.2732	.273	5.46	.00404	.000	1
CalibStd=10	10.000	10.228	.228	2.28	.00805	.000	1
CalibStd=100	100.00	99.312	-.688	-.688	.08016	.003	1
CalibStd=100	1000.0	992.51	-7.49	-.749	.80317	.018	1
CalibStd=100	10000.	10008.	7.70	.077	8.1007	.302	1

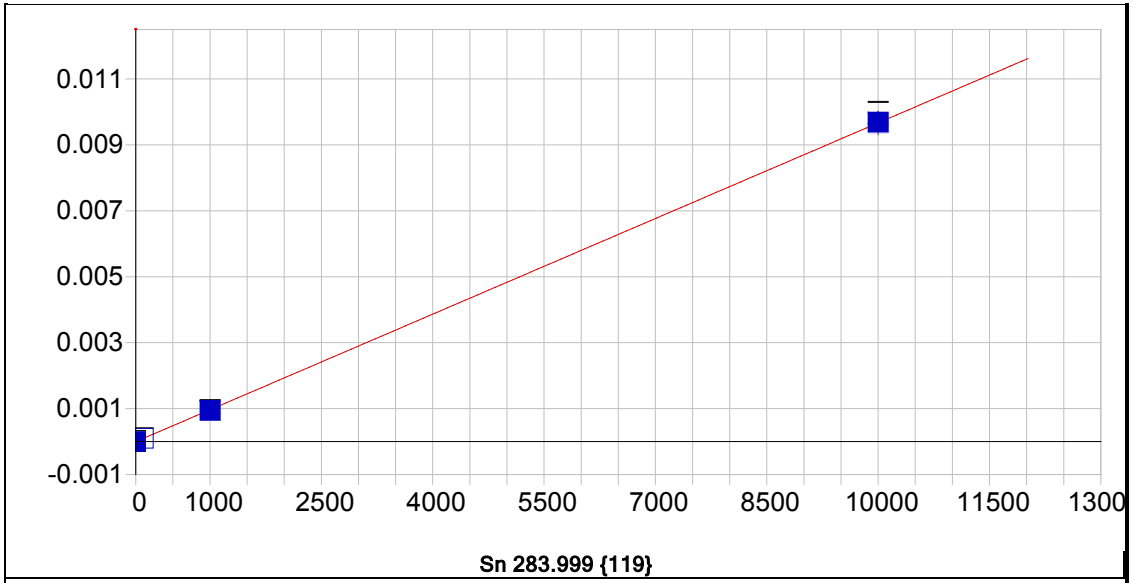


Sn 189.989 {477}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999781	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.584216		
Predicted MQL:	1.947386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00292	-.003	.000	-.00001	.000	1
CalibStd=100	10000.	9931.8	-68.2	-.682	.22424	.003	1
CalibStd=100	1000.0	1051.7	51.7	5.17	.02374	.001	1
CalibStd=100	100.00	108.70	8.70	8.70	.00245	.000	1
CalibStd=10	10.000	11.865	1.86	18.6	.00026	.000	1
CalibStd=50	50.000	55.089	5.09	10.2	.00124	.000	1
CalibStd=5	5.0000	5.8185	.818	16.4	.00012	.000	1

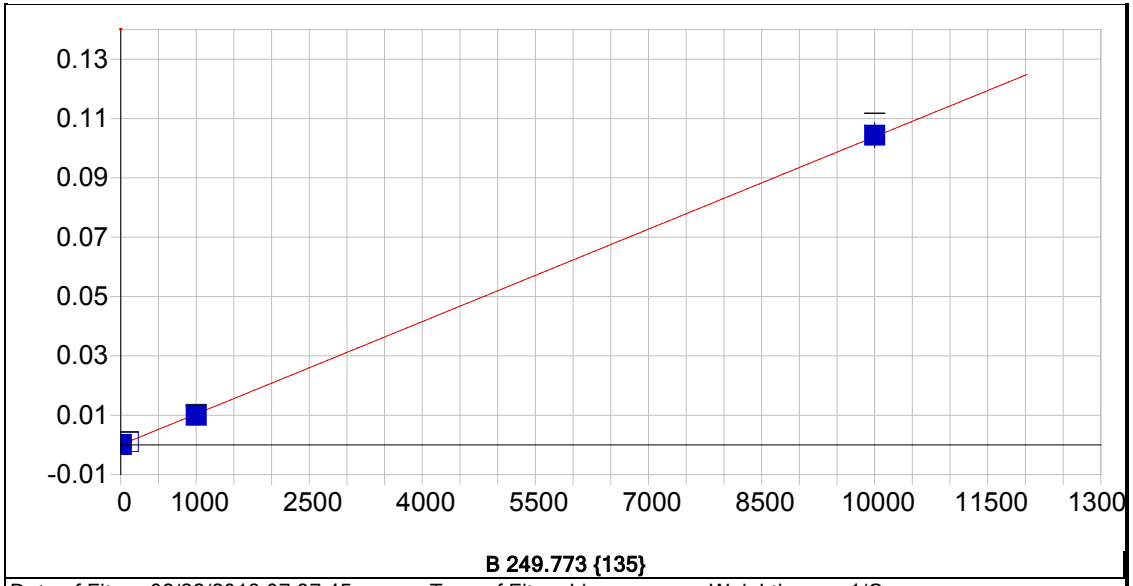


Sn 283.999 {119}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	38.362283		
Predicted MQL:	127.874276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00225	-.002	.000	.00000	.000	1
CalibStd=100	10000.	10018.	18.1	.181	.00966	.000	1
CalibStd=100	1000.0	977.58	-22.4	-2.24	.00094	.000	1
CalibStd=100	100.00	104.32	4.32	4.32	.00010	.000	1

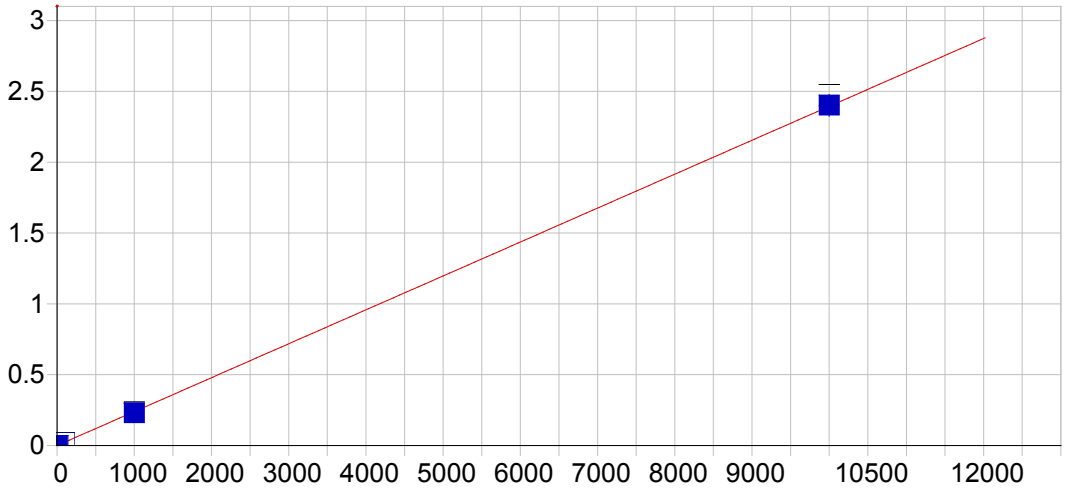


B 249.773 {135}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000018	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	3.065561		
Predicted MQL:	10.218535		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00149	-.001	.000	.00002	.000	1
CalibStd=100	100.00	93.897	-6.10	-6.10	.00099	.000	1
CalibStd=10	10.000	12.488	2.49	24.9	.00015	.000	1
CalibStd=100	1000.0	956.19	-43.8	-4.38	.00995	.000	1
CalibStd=100	10000.	10047.	47.4	.474	.10439	.004	1



Li 670.784 { 50}

Date of Fit:	08/22/2013 07:37:45	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000239	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	1.153067		
Predicted MQL:	3.843556		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00093	-.001	.000	.00010	.000	1
CalibStd=10	10.000	11.397	1.40	14.0	.00283	.000	1
CalibStd=100	100.00	98.522	-1.48	-1.48	.02369	.001	1
CalibStd=100	1000.0	964.55	-35.4	-3.54	.23106	.005	1
CalibStd=100	10000.	10036.	35.5	.355	2.4031	.075	1

Sample Name: Blank Acquired: 08/21/2013 12:15:16 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**-.002**	**.000**	**.000**	**.000**	**.000**	**.000**	**-.006**	**.000**	**.000**	**.016**	**.006**
Stddev	.00	.000	.00	.000	.00	.00	.000	.000	.000	.00	.000	.000
%RSD	5.43	4.26	25.3	38.7	46.7	53.8	29.3	6.19	8.44	556.	.502	4.03

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.005**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.00	.000	.00	.000	.000	.000	.000	.00
%RSD	119.	12.3	127.	114.	88.9	60.0	51.0	2.34	8.30	90.7	92.9	9.09

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.00	.000	.00	.00	.000	.000	.00	.00	.000
%RSD	5.28	60.5	28500.	265.	27.0	38.3	45.3	25.5	272.	211.	8.23	100.

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.00	.000	.00	.00	.000	.000	.000
%RSD	108.	23.8	175.	78.7	308.	67.1	41.2	9.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**41368.**
Stddev	141.
%RSD	.34193

Sample Name: CalibStd=0.25 Acquired: 08/21/2013 12:19:02 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	3.41

Int. Std.	Y_3600
Units	Cts/S
Avg	**41151.**
Stddev	235.
%RSD	.57155

Sample Name: CalibStd=0.5 Acquired: 08/21/2013 12:22:57 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	7.42	10.8

Int. Std.	Y_3600
Units	Cts/S
Avg	**40653.**
Stddev	240.
%RSD	.58922

Sample Name: CalibStd=1 Acquired: 08/21/2013 12:26:51 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.00	.000
%RSD	14.8	2.24

Int. Std.	Y_3600
Units	Cts/S
Avg	**40439.**
Stddev	291.
%RSD	.71918

Sample Name: CalibStd=5 Acquired: 08/21/2013 12:30:46 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cu2247	Mn2576	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.004**	**.001**	**.001**	**.001**	**.000**	**.000**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	5.87	1.65	2.06	1.99	2.38	2.15	19.7	4.24	14.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**40488.**
Stddev	173.
%RSD	.42755

Sample Name: CalibStd=10 Acquired: 08/21/2013 12:34:40 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.007**	**.002**	**.002**	**.001**	**.002**	**.001**	**.000**	**.001**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	19.7	5.16	24.5	3.20	1.13	2.51	2.35	3.87	5.99	6.98	5.11	.687

Elem	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.003**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.82	7.58	25.3	6.84	5.54	12.9	2.80	2.61

Int. Std.	Y_3600
Units	Cts/S
Avg	**40850.**
Stddev	113.
%RSD	.27555

Sample Name: CalibStd=20 Acquired: 08/21/2013 12:38:35 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ba4554	Cr2677	Cu2247	Fe2599	Mn2576	Mo2020	Sb2175	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.014**	**.003**	**.001**	**.000**	**.001**	**.001**	**.000**	**.007**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.30	2.12	3.75	17.5	4.50	.803	19.1	3.12

Int. Std.	Y_3600
Units	Cts/S
Avg	**41332.**
Stddev	313.
%RSD	.75636

Sample Name: CalibStd=50 Acquired: 08/21/2013 12:42:27 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.033**	**.099**	**.011**	**.007**	**.009**	**.001**	**.003**	**.000**	**.006**	**.002**
Stddev	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.43	2.67	1.30	1.95	1.66	2.36	1.02	3.62	1.61	2.99	1.83	1.34

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.003**	**.001**	**.007**	**.001**	**.000**	**.000**	**.000**	**.016**	**.005**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.28	1.63	1.41	2.79	8.87	1.50	2.29	1.76	1.84

Int. Std.	Y_3600
Units	Cts/S
Avg	**41176.**
Stddev	168.
%RSD	.40907

Sample Name: CalibStd=100 Acquired: 08/21/2013 12:46:15 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3933	Cd2265	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.013**	**.001**	**.000**	**.063**	**.055**	**.022**	**.002**	**.158**	**.021**	**.027**	**.015**	**.017**
Stddev	.000	.000	.000	.002	.002	.001	.000	.005	.000	.001	.000	.000
%RSD	1.33	2.10	3.03	3.22	3.36	3.15	3.45	3.27	2.25	2.17	2.49	1.03

Elem	Cr2835	Cu2247	Cu3247	Fe2599	Mg2802	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.006**	**.007**	**.001**	**.012**	**.003**	**.005**	**.002**	**.009**	**.013**	**.001**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.11	2.39	1.42	4.06	3.03	3.12	2.29	2.65	3.05	3.23	.976	2.54

Elem	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.001**	**.001**	**.032**	**.010**
Stddev	.000	.000	.000	.000	.000	.000
%RSD	1.28	3.94	2.99	2.28	.297	2.17

Int. Std.	Y_3600
Units	Cts/S
Avg	**41244.**
Stddev	127.
%RSD	.30895

Sample Name: CalibStd=1000 Acquired: 08/21/2013 12:49:54 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al1670	As1937	As1890	Ba4934	Be2348	Ca3179	Ca3933	Cd2265	Cd2288	Co2286	Co2388
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.012**	**.007**	**.002**	**.594**	**.025**	**.021**	**1.41**	**.208**	**.258**	**.144**	**.004**
Stddev	.000	.000	.000	.000	.013	.000	.000	.03	.005	.006	.003	.000
%RSD	5.17	1.94	1.61	2.04	2.12	1.96	.628	2.15	2.29	2.29	2.39	3.16

Elem	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.167**	**.014**	**.063**	**.022**	**.001**	**.002**	**.006**	**.115**	**.034**	**.043**	**.051**	**.024**
Stddev	.002	.000	.001	.000	.000	.000	.000	.002	.001	.001	.001	.001
%RSD	1.24	2.11	2.29	1.47	2.72	2.02	2.23	1.84	2.25	1.78	2.22	2.17

Elem	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.086**	**.128**	**.009**	**.022**	**.012**	**.012**	**.003**	**.008**	**.001**	**.000**	**.007**	**.008**
Stddev	.002	.003	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.52	2.51	2.42	2.48	2.02	2.03	1.16	1.62	1.02	12.6	1.74	1.84

Elem	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S
Avg	**.307**	**.127**	**.095**
Stddev	.005	.003	.002
%RSD	1.49	2.62	2.36

Int. Std.	Y_3600
Units	Cts/S
Avg	**41597.**
Stddev	162.
%RSD	.38855

Sample Name: CalibStd=10000 Acquired: 08/21/2013 12:53:16 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	As1890	Ba4554	Ba4934	Ca3179	Co2388	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.035**	**.096**	**.019**	**6.12**	**6.02**	**.062**	**.041**	**.147**	**.597**	**.174**	**.010**	**.018**
Stddev	.001	.003	.000	.27	.30	.001	.001	.005	.008	.005	.000	.001
%RSD	3.14	2.94	1.23	4.35	5.00	2.31	2.89	3.19	1.34	2.64	2.96	3.38

Elem	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Se1960	Se2062	Tl2767
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.064**	**.131**	**1.16**	**.439**	**.230**	**.818**	**.080**	**.117**	**.033**	**.073**	**.012**	**.003**
Stddev	.002	.002	.04	.014	.003	.012	.001	.001	.000	.001	.000	.000
%RSD	2.94	1.66	3.34	3.15	1.31	1.43	1.51	1.16	.652	1.21	1.40	7.65

Elem	V_2908	Zn2062
Units	Cts/S	Cts/S
Avg	**.080**	**1.21**
Stddev	.002	.02
%RSD	3.05	1.45

Int. Std.	Y_3600
Units	Cts/S
Avg	**41258.**
Stddev	270.
%RSD	.65416

Sample Name: CalibStd-100k Acquired: 08/21/2013 12:57:13 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Cr2835	Cu3247	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.42**	**1.59**	**4.06**	**.777**	**10.2**
Stddev	.04	.05	.12	.015	.2
%RSD	2.81	2.98	2.89	1.88	1.63

Int. Std.	Y_3600
Units	Cts/S
Avg	**40993.**
Stddev	171.
%RSD	.41826

Sample Name: CalibStd-100000 Acquired: 08/21/2013 13:01:08 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.357**	**.922**	**.460**	**.099**	**.169**	**1.16**
Stddev	.010	.024	.012	.002	.004	.02
%RSD	2.71	2.62	2.70	2.51	2.59	1.59

Int. Std.	Y_3600
Units	Cts/S
Avg	**40623.**
Stddev	93.
%RSD	.22910

Sample Name: CalibStd=500000 Acquired: 08/21/2013 13:05:07 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.73**	**2.11**	**.452**	**4.69**
Stddev	.17	.08	.015	.06
%RSD	3.58	3.71	3.31	1.33

Int. Std.	Y_3600
Units	Cts/S
Avg	**38956.**
Stddev	102.
%RSD	.26229

Sample Name: CalibStd-1000k Acquired: 08/21/2013 13:08:58 Type: Cal
Method: DOD Calibration 1(v1396) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.92**	**3.77**	**.832**	**7.76**
Stddev	.23	.13	.033	.14
%RSD	2.53	3.31	3.94	1.85

Int. Std.	Y_3600
Units	Cts/S
Avg	**37609.**
Stddev	55.
%RSD	.14621

Sample Name: icv Acquired: 08/21/2013 13:17:05 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343	Mg2025
Avg	**48.8**	**11800.**	**2100.**	**2070.**	**48.8**	**9980.**	**50.6**	**507.**	**210.**	**267.**	**4950.**	**10400.**
Stddev	.4	396.	26.	75.	1.8	356.	.8	8.	3.	5.	117.	210.
%RSD	.739	3.36	1.22	3.62	3.72	3.57	1.59	1.67	1.37	1.81	2.36	2.02
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl2767	V_2924	Zn2138
Avg	**510.**	**505.**	**505.**	**492.**	**508.**	**2150.**	**2080.**	**525.**	**517.**
Stddev	19.	9.	9.	6.	7.	25.	250.	5.	8.
%RSD	3.68	1.69	1.69	1.20	1.47	1.14	12.0	.890	1.62
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**40981.**
Stddev	88.
%RSD	.21411

Sample Name: ICVLL Acquired: 08/21/2013 13:20:43 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**52.2**	**1130.**	**62.5**	**32.1**	**12.7**	**1480.**	**15.7**	**31.0**	**29.8**	**31.6**	**922.**	**1470.**
Stddev	.4	28.	1.9	.4	.1	12.	.4	.6	.9	.5	3.	22.
%RSD	.766	2.45	2.96	1.33	1.07	.789	2.40	1.93	3.13	1.59	.348	1.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**29.8**	**31.4**	**31.6**	**28.6**	**58.1**	**68.2**	**60.0**	**31.1**	**31.2**
Stddev	.3	.6	.5	1.4	3.4	1.3	1.5	.2	.8
%RSD	1.06	2.00	1.58	4.83	5.91	1.93	2.48	.768	2.45
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**41072.**
Stddev	65.
%RSD	.15792

Sample Name: icb Acquired: 08/21/2013 13:28:24 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**1.06**	**-2.02**	**.403**	**-1.46**	**.244**	**-7.21**	**-.670**	**-.084**	**-1.60**	**-.247**	**10.4**	**4.15**
Stddev	.37	.62	1.63	.12	.131	.02	.076	.089	.51	.260	2.1	.07
%RSD	35.4	30.9	404.	7.89	53.7	.254	11.4	106.	32.0	105.	19.8	1.60
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.657**	**.250**	**.138**	**-.988**	**2.84**	**-.229**	**.721**	**.012**	**.044**
Stddev	.618	.123	.215	.533	.96	1.98	.511	.246	.097
%RSD	94.1	49.1	156.	53.9	33.7	864.	70.8	2130.	223.
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**40983.**
Stddev	213.
%RSD	.51943

Sample Name: MRL Acquired: 08/21/2013 13:32:20 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**18.7**	**418.**	**21.5**	**8.97**	**4.38**	**483.**	**4.56**	**10.4**	**8.84**	**10.4**	**292.**	**486.**
Stddev	.9	8.	1.1	.32	.14	17.	.16	.2	.26	.3	14.	16.
%RSD	4.71	1.85	4.92	3.51	3.28	3.45	3.57	1.84	2.92	2.48	4.96	3.25
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**9.71**	**10.3**	**10.9**	**8.37**	**21.3**	**21.8**	**18.8**	**10.4**	**11.5**
Stddev	.70	.3	.2	.74	.8	2.4	1.1	.2	.4
%RSD	7.22	2.62	2.28	8.81	3.60	10.8	5.69	1.87	3.48
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**40970.**
Stddev	159.
%RSD	.38904

Sample Name: icsa Acquired: 08/21/2013 13:36:16 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Avg	**.000**	**472000.**	**.014**	**.000**	**.000**	**435000.**	**.006**	**.031**	**.000**	**.018**	**451000.**
Stddev	.489	25400.	5.74	.221	.14	23200.	3.66	.096	.191	3.87	23900.
%RSD	440e15	5.38	39600.	209000.	6044e15	5.34	62400.	306.	178000.	21100.	5.31
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit											
Low Limit											

Elem	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**489000.**	**.000**	**.000**	**.000**	**.000**	**.000**	**.033**	**.000**	**.000**	**-.001**
Stddev	10600.	1.54	.69	.66	1.70	1.99	5.47	1.85	.98	2.21
%RSD	2.16	2460000.	66e6	1320000.	653000.	420000.	16500.	1090000.	5730000.	190000.
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_3600
Avg	**38707.**
Stddev	324.
%RSD	.83637

Sample Name: icsab Acquired: 08/21/2013 13:40:13 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**462.**	**452000.**	**492.**	**532.**	**448.**	**420000.**	**465.**	**501.**	**489.**	**521.**	**435000.**
Stddev	7.	15200.	9.	21.	13.	11800.	8.	13.	11.	21.	12500.
%RSD	1.50	3.36	1.88	3.88	2.78	2.81	1.82	2.58	2.17	4.04	2.88
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2025	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**473000.**	**419.**	**495.**	**485.**	**487.**	**477.**	**407.**	**578.**	**535.**	**429.**
Stddev	8660.	20.	8.	10.	1.	9.	14.	----	22.	8.
%RSD	1.83	4.65	1.66	2.00	.281	1.82	3.55	205.	4.11	1.90
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**38701.**
Stddev	168.
%RSD	.43495

Sample Name: mbw45497 Acquired: 08/21/2013 13:51:28 Type: Unk
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.931**	**-1.46**	**.163**	**-1.46**	**.070**	**-3.05**	**-.843**	**.021**	**-.802**	**-.210**	**24.2**	**5.92**
Stddev	.381	.84	1.18	.10	.130	.25	.018	.079	.511	.404	2.9	.49
%RSD	40.9	57.7	722.	6.79	185.	8.25	2.09	379.	63.7	193.	11.9	8.29

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.482**	**.263**	**.029**	**-1.27**	**3.65**	**-.514**	**-1.09**	**.165**	**.179**
Stddev	.093	.137	.320	1.22	.83	.616	.56	.534	.046
%RSD	19.4	52.1	1110.	96.2	22.7	120.	52.1	323.	25.7

Int. Std.	Y_3600
Units	Cts/S
Avg	**40939.**
Stddev	254.
%RSD	.62129

Sample Name: 339561 Acquired: 08/21/2013 13:55:24 Type: Unk
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.22**	**-1.47**	**.114**	**-1.55**	**.107**	**5.06**	**-.812**	**-.041**	**-.843**	**-.086**	**14.5**	**3.85**
Stddev	.50	.52	.620	.25	.116	.23	.170	.050	.979	.069	3.4	.23
%RSD	41.1	35.3	546.	16.4	108.	4.62	20.9	122.	116.	80.4	23.8	5.83

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.078**	**.178**	**.427**	**-1.23**	**1.16**	**.602**	**.152**	**-.284**	**.587**
Stddev	1.01	.119	.237	.73	.59	3.07	.757	.184	.145
%RSD	1300.	66.9	55.5	59.6	50.8	509.	498.	64.8	24.7

Int. Std.	Y_3600
Units	Cts/S
Avg	**41467.**
Stddev	139.
%RSD	.33554

Sample Name: I339561 Acquired: 08/21/2013 13:59:20 Type: Unk
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.29**	**-1.69**	**.754**	**-1.55**	**-.037**	**-5.33**	**-.827**	**.025**	**-1.02**	**-.006**	**2.06**	**3.01**
Stddev	.72	2.17	1.04	.26	.133	.63	.019	.231	.25	.043	8.57	.27
%RSD	55.8	128.	138.	16.9	362.	11.9	2.26	931.	24.0	664.	417.	8.85

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.01**	**.024**	**.096**	**-1.07**	**1.34**	**.531**	**1.39**	**-.120**	**-.075**
Stddev	.75	.108	.241	.41	1.90	.939	.88	.130	.132
%RSD	73.8	450.	250.	38.2	142.	177.	63.5	109.	176.

Int. Std.	Y_3600
Units	Cts/S
Avg	**41035.**
Stddev	94.
%RSD	.22946

Sample Name: dup339561 Acquired: 08/21/2013 14:03:14 Type: Unk
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.600**	**-2.35**	**-.080**	**-1.47**	**.049**	**5.42**	**-.751**	**-.029**	**-.929**	**.107**	**5.38**	**3.81**
Stddev	.342	.44	.884	.16	.017	.56	.046	.314	.220	.108	3.24	.19
%RSD	57.0	18.5	1100.	11.0	35.2	10.4	6.07	1070.	23.7	101.	60.2	4.97

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.770**	**.352**	**.477**	**-.869**	**.909**	**-.116**	**.588**	**.220**	**.699**
Stddev	.233	.235	.049	.311	1.09	.156	.522	.168	.115
%RSD	30.3	66.6	10.2	35.8	120.	135.	88.7	76.0	16.4

Int. Std.	Y_3600
Units	Cts/S
Avg	**41111.**
Stddev	57.
%RSD	.13796

Sample Name: ccv1 Acquired: 08/21/2013 14:28:21 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2395	Mg2025
Avg	**452.**	**4700.**	**4810.**	**5140.**	**493.**	**4590.**	**524.**	**4590.**	**4710.**	**5000.**	**4690.**	**4720.**
Stddev	3.	160.	69.	165.	18.	93.	8.	138.	158.	169.	171.	76.
%RSD	.695	3.40	1.43	3.21	3.71	2.02	1.59	3.01	3.35	3.39	3.65	1.60
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**5030.**	**4720.**	**4640.**	**4870.**	**4820.**	**4940.**	**4610.**	**4640.**	**4450.**
Stddev	163.	81.	90.	71.	66.	59.	207.	136.	96.
%RSD	3.24	1.71	1.95	1.46	1.37	1.19	4.48	2.92	2.17
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**41703.**
Stddev	125.
%RSD	.30079

Sample Name: ccv2 Acquired: 08/21/2013 14:31:55 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**49.9**	**492.**	**485.**	**523.**	**51.1**	**500.**	**48.4**	**478.**	**474.**	**511.**	**502.**	**497.**
Stddev	.6	15.	11.	13.	1.4	12.	1.3	14.	4.	13.	6.	12.
%RSD	1.30	3.09	2.32	2.44	2.76	2.43	2.66	2.86	.857	2.52	1.20	2.39
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2062
Avg	**492.**	**490.**	**477.**	**471.**	**489.**	**514.**	**491.**	**490.**	**456.**
Stddev	14.	12.	12.	13.	12.	10.	10.	6.	13.
%RSD	2.75	2.36	2.60	2.72	2.41	2.03	2.07	1.30	2.85
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**41897.**
Stddev	257.
%RSD	.61300

Sample Name: ccb Acquired: 08/21/2013 14:35:26 Type: QC
Method: DOD Calibration 1(v1396) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

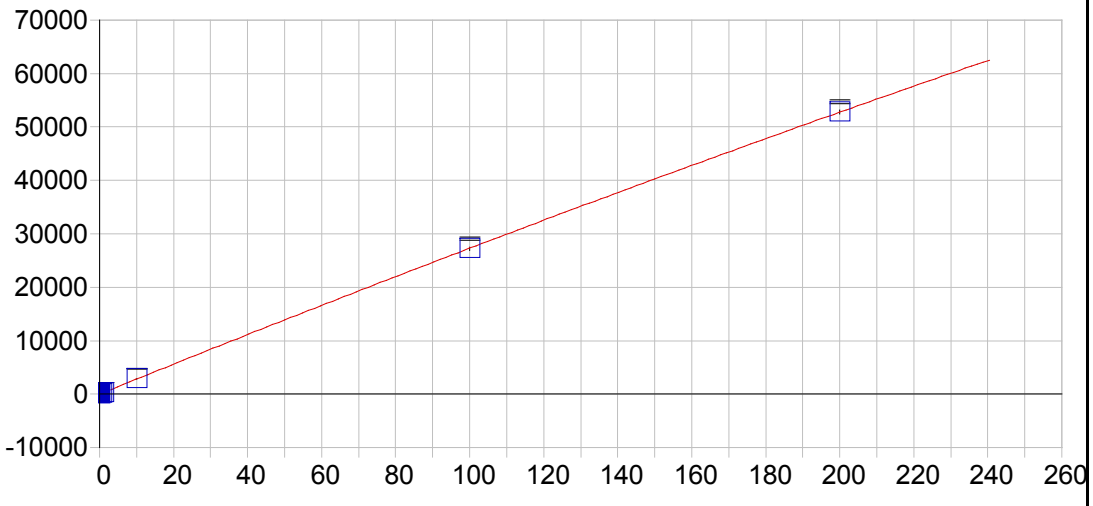
Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**1.69**	**-3.84**	**.041**	**-.592**	**.077**	**-7.57**	**-.728**	**.148**	**-.051**	**.217**	**5.83**	**3.34**
Stddev	.29	.16	.926	.355	.110	.25	.046	.200	.645	.245	1.88	.17
%RSD	17.0	4.28	2240.	60.0	142.	3.31	6.36	136.	1260.	113.	32.4	5.04
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.536**	**2.44**	**.219**	**-1.60**	**2.53**	**3.01**	**.762**	**.068**	**.010**
Stddev	.592	.16	.227	.90	.38	1.13	.312	.416	.196
%RSD	110.	6.50	104.	56.0	14.9	37.4	40.9	610.	2050.
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**41620.**
Stddev	187.
%RSD	.45033

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
	K 766.490 { 44}	08/20/2013 15:58:39	08/20/2013 09:46:58	Curvilin	1/Conc	3.371109	282.276193	-0.092188	1.000000	0.999991	0.623147	0.022978	0.076592
	Na 330.237 {102}	08/20/2013 15:58:39	08/20/2013 09:46:58	Full Fit	1/Conc	0.550418	1.794040	-0.000541	0.990000	1.000000	0.000000	1.036671	3.455569
	Na 589.592 { 57}	08/20/2013 15:58:39	08/20/2013 09:44:54	Linear	1/Conc	17.423637	1874.74072	0.000000	1.000000	0.999298	15.683179	0.003280	0.010934
	Y 320.332 {105}*	08/20/2013 15:58:39	08/20/2013 09:40:00	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Y 360.073 { 94}	08/20/2013 15:58:39	08/20/2013 09:40:00	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Al 308.215 {109}	08/20/2013 15:58:39	08/20/2013 09:48:08	Linear	1/Conc	0.005717	0.005242	0.000000	1.000000	1.000000	0.000000	-1.000000	-1.000000
	Al 396.152 { 85}	08/20/2013 15:58:39	08/20/2013 09:48:08	Linear	1/Conc	0.008043	0.035930	0.000000	1.000000	1.000000	0.000000	0.011485	0.038284
	Mg 279.553 {121}	08/20/2013 15:58:39	08/20/2013 09:48:08	Linear	1/Conc	0.001909	0.313517	0.000000	1.000000	1.000000	0.000000	0.000435	0.001452
	Mg 285.213 {118}	08/20/2013 15:58:39	08/20/2013 09:48:08	Linear	None	0.000105	0.039694	0.000000	1.000000	1.000000	0.000000	0.003993	0.013312
	Ca 317.933 {106}	08/20/2013 15:58:39	08/20/2013 09:48:08	Linear	None	0.031110	0.004713	0.000000	1.000000	1.000000	0.000000	-1.000000	-1.000000
	Fe 234.349 {144}	08/20/2013 15:58:39	08/20/2013 09:48:08	Linear	None	0.000191	0.004899	0.000000	1.000000	1.000000	0.000000	0.027316	0.091052

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	K 766.490 { 44}	OK.	1.000000	0.000000	1	0
	Na 330.237 {102}	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	OK.	1.000000	0.000000	1	0
	Y 320.332 {105}*	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}	Warnin	1.000000	0.000000	1	0
	Al 308.215 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	Mg 279.553 {121}	OK.	1.000000	0.000000	1	0
	Mg 285.213 {118}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0

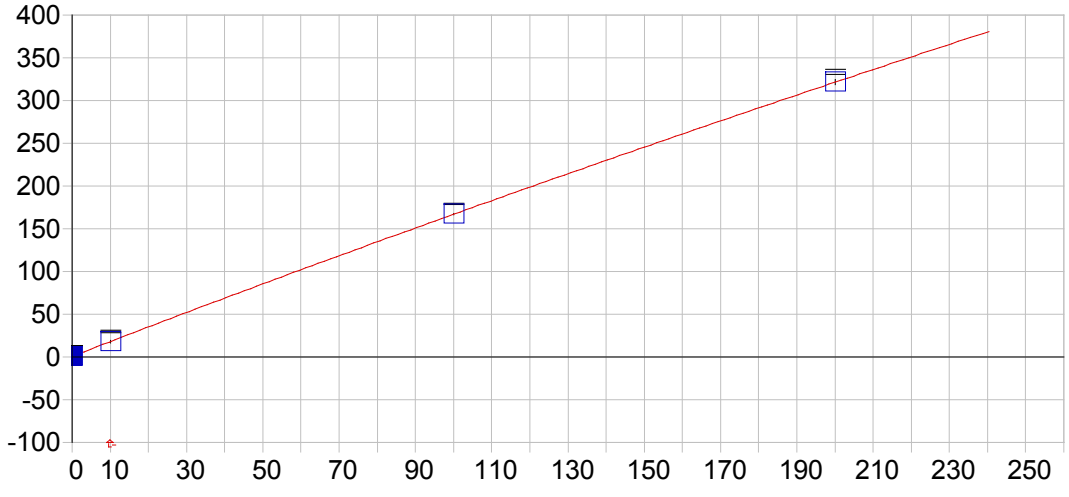


K 766.490 { 44}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	3.371109	Re-Slope:	1.000000
A1 (Gain):	282.276193	Y-int:	0.000000
A2 (Curvature):	-0.092188		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.623147		
Predicted MDL:	0.022978		
Predicted MQL:	0.076592		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	3.3605	4.44	1
CalibStd-1.0	1.0000	1.0377	.038	3.77	296.19	1.34	1
CalibStd-10	10.000	10.132	.132	1.32	2853.9	25.1	1
CalibStd-0.5	.50000	.51350	.013	2.70	148.30	1.05	1
CalibStd-200	200.00	200.19	.194	.097	52819.	372.	1
CalibStd-100	100.00	99.624	-.376	-.376	27210.	276.	1

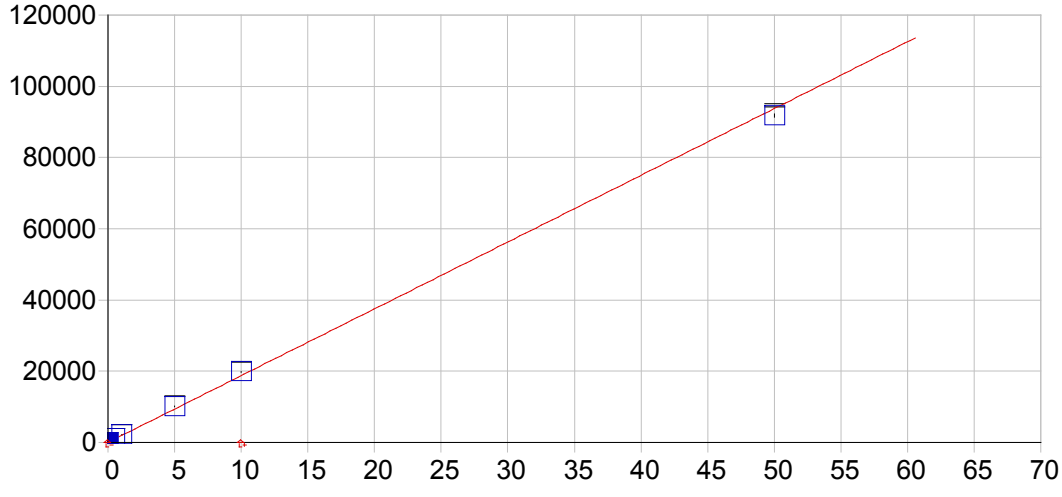


Na 330.237 {102}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.550418	Re-Slope:	1.000000
A1 (Gain):	1.794040	Y-int:	0.000000
A2 (Curvature):	-0.000541		
n (Exponent):	0.990000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.036671		
Predicted MQL:	3.455569		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.55038	.897	1
CalibStd-200	200.00	200.03	.030	.015	321.41	3.05	1
CalibStd-10	10.000	10.027	.027	.275	18.078	1.34	1
CalibStd-100	100.00	99.942	-.058	-.058	166.85	.723	1

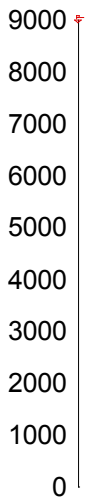


Na 589.592 { 57}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	17.423637	Re-Slope:	1.000000
A1 (Gain):	1874.740721	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999298	Status:	OK.
Std Error of Est:	15.683179		
Predicted MDL:	0.003280		
Predicted MQL:	0.010934		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00015	.000	.000	17.139	2.15	1
CalibStd-0.5	.50000	.54587	.046	9.17	1040.8	14.2	1
CalibStd-1.0	1.0000	1.1076	.108	10.8	2094.0	24.7	1
CalibStd-5	5.0000	5.3533	.353	7.07	10053.	108.	1
CalibStd-10	10.000	10.551	.551	5.51	19797.	120.	1
CalibStd-50	50.000	48.943	-1.06	-2.11	91772.	393.	1

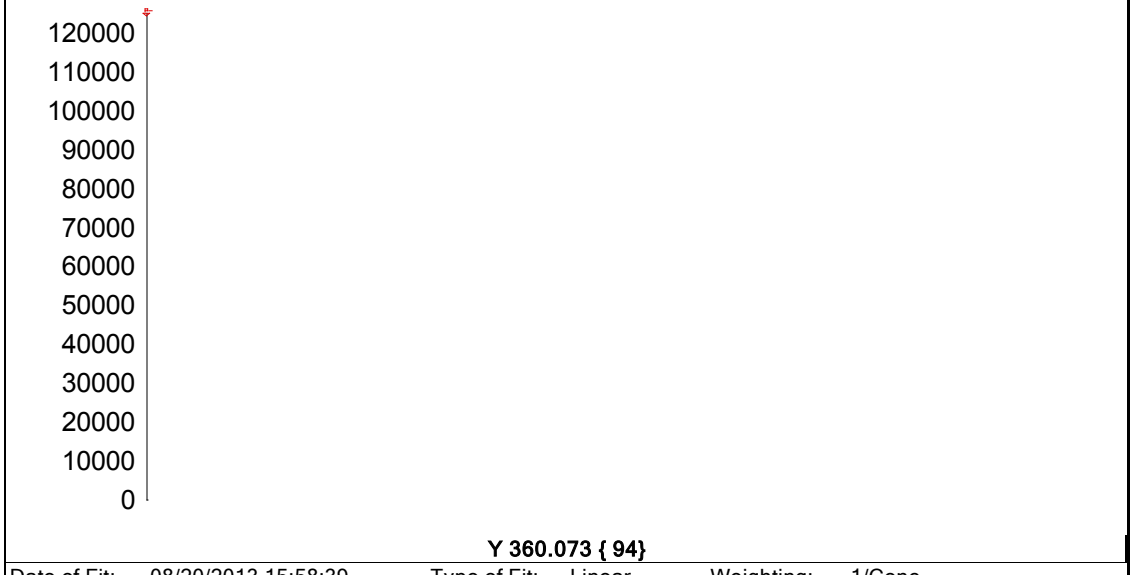


Y 320.332 {105}*

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	1/Conc

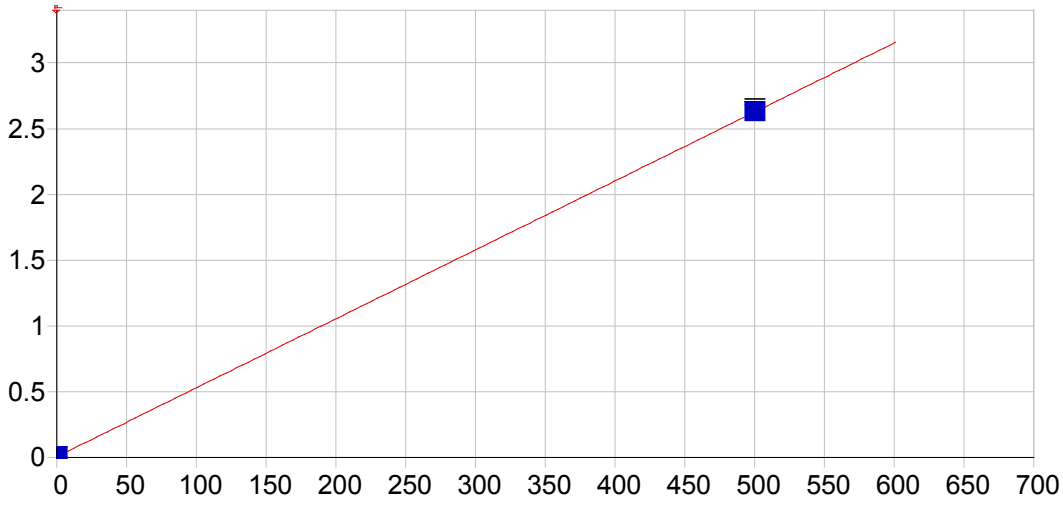
A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	8206.6	56.0	1



Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	117270.	470.	1

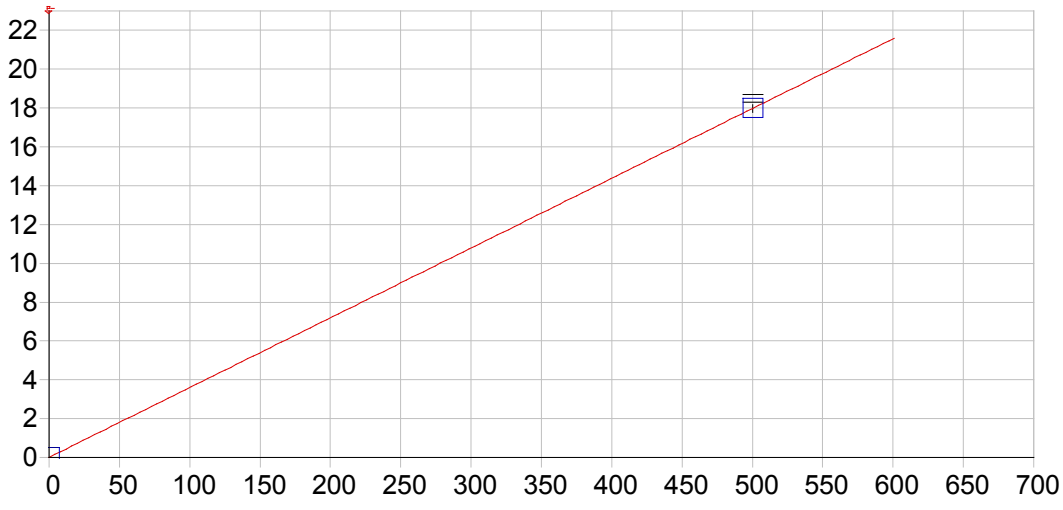


Al 308.215 {109}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005717	Re-Slope:	1.000000
A1 (Gain):	0.005242	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00572	.000	1
CalibStd-500	500.00	500.00	.000	.000	2.6267	.022	1

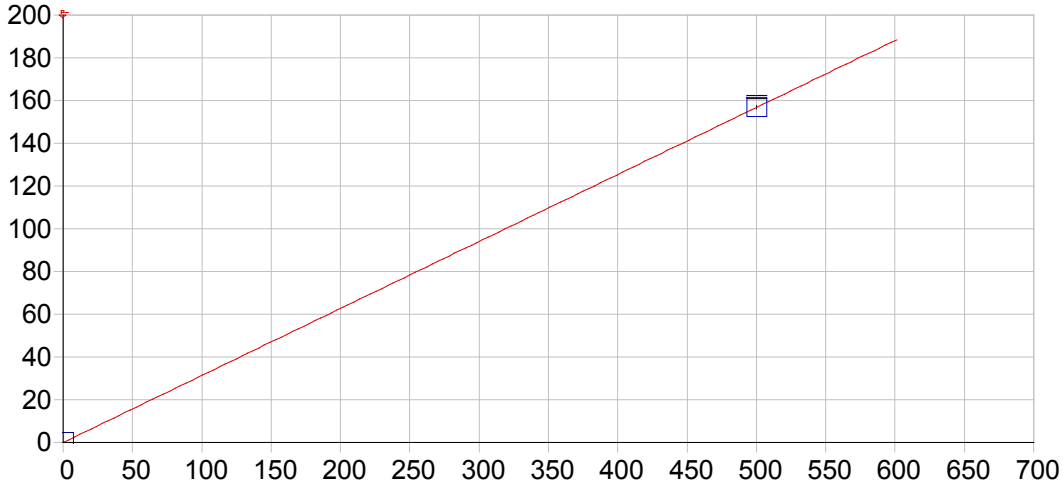


Al 396.152 { 85}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008043	Re-Slope:	1.000000
A1 (Gain):	0.035930	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.011485		
Predicted MQL:	0.038284		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00804	.001	1
CalibStd-500	500.00	500.00	.000	.000	17.973	.191	1

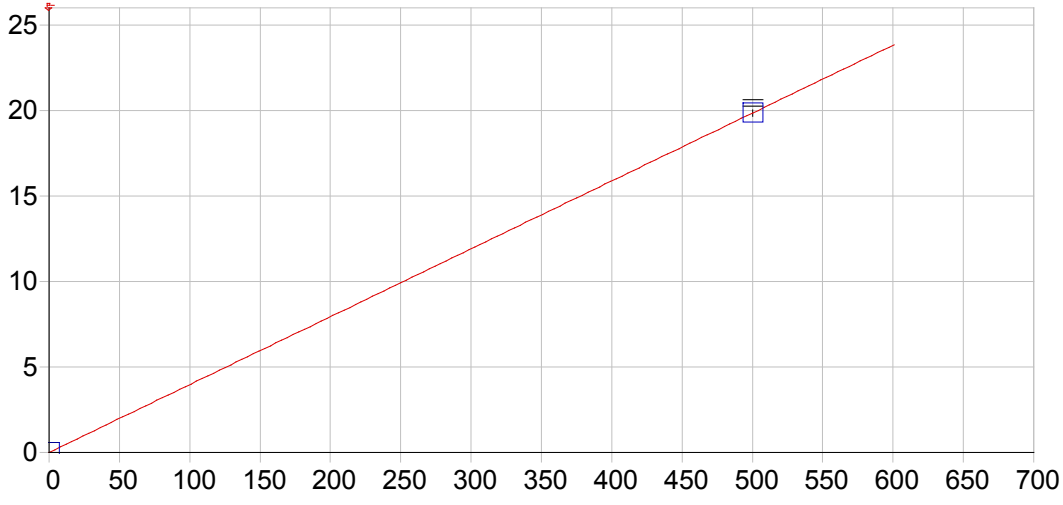


Mg 279.553 {121}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001909	Re-Slope:	1.000000
A1 (Gain):	0.313517	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000435		
Predicted MQL:	0.001452		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00191	.000	1
CalibStd-500	500.00	500.00	.000	.000	156.76	.729	1

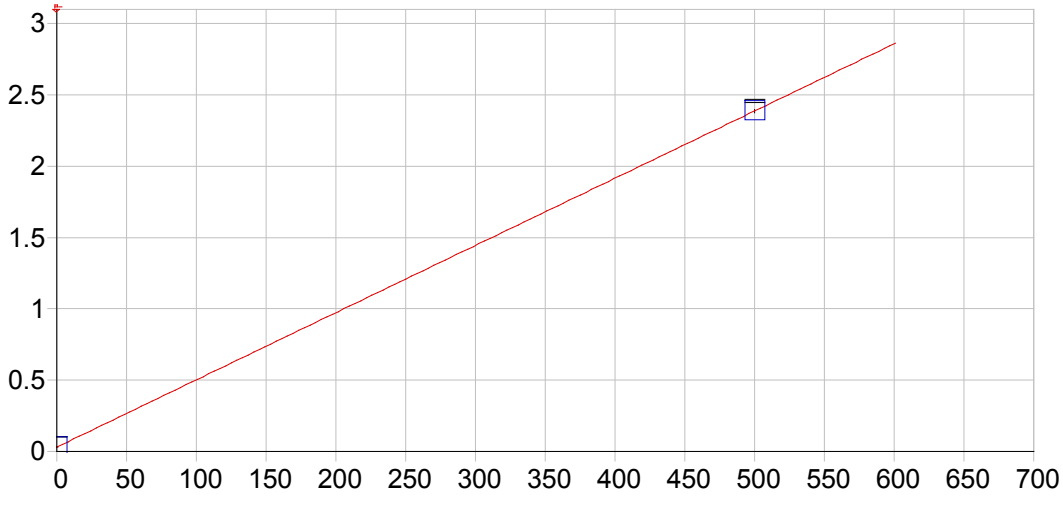


Mg 285.213 {118}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000105	Re-Slope:	1.000000
A1 (Gain):	0.039694	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003993		
Predicted MQL:	0.013312		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd-500	500.00	500.00	.000	.000	19.847	.191	1

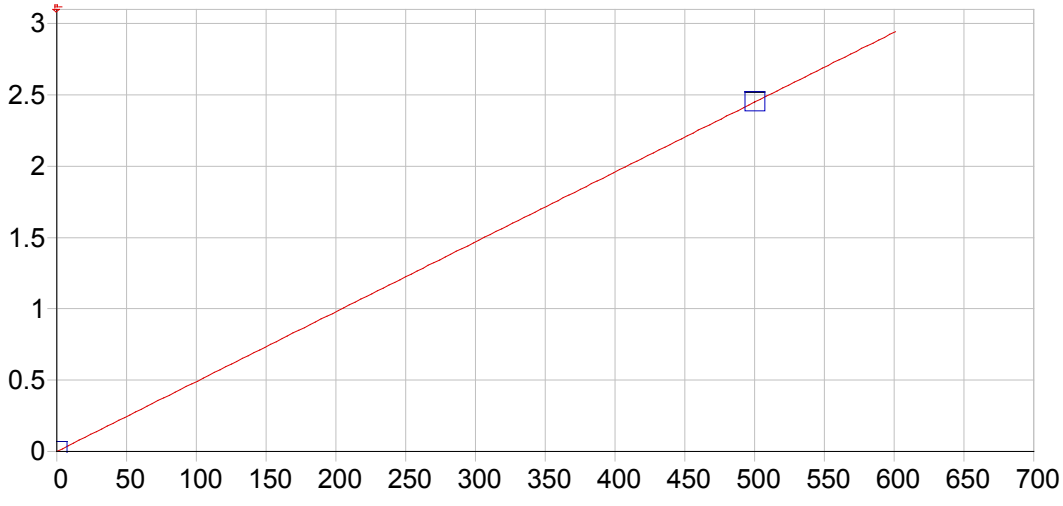


Ca 317.933 {106}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.031110	Re-Slope:	1.000000
A1 (Gain):	0.004713	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.03111	.000	1
CalibStd-500	500.00	500.00	.000	.000	2.3876	.012	1



Fe 234.349 {144}

Date of Fit:	08/20/2013 15:58:39	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000191	Re-Slope:	1.000000
A1 (Gain):	0.004899	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.027316		
Predicted MQL:	0.091052		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00019	.000	1
CalibStd-500	500.00	500.00	.000	.000	2.4496	.003	1

Sample Name: Blank Acquired: 08/20/2013 09:39:03 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.36**	**.550**	**17.1**	**.01**	**.000**	**.031**	**.000**
Stddev	4.44	.897	2.1	.00	.000	.000	.000
%RSD	132.	163.	12.5	2.4	84.9	.361	70.8

Int. Std.	Y_3203
Units	Cts/S
Avg	**8206.6**
Stddev	56.0
%RSD	.68281

Sample Name: CalibStd-0.5 Acquired: 08/20/2013 09:40:06 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**148.**	**1040.**
Stddev	1.	14.
%RSD	.706	1.36

Sample Name: CalibStd-1.0 Acquired: 08/20/2013 09:41:08 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**296.**	**2090.**
Stddev	1.	25.
%RSD	.453	1.18

Sample Name: CalibStd-5 Acquired: 08/20/2013 09:42:06 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Na5895
Units	Cts/S
Avg	**10100.**
Stddev	108.
%RSD	1.08

Sample Name: CalibStd-10 Acquired: 08/20/2013 09:43:03 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Na5895
Units	Cts/S	Cts/S	Cts/S
Avg	**2850.**	**18.1**	**19800.**
Stddev	25.	1.3	120.
%RSD	.879	7.44	.606

Sample Name: CalibStd-50 Acquired: 08/20/2013 09:44:02 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Na5895
Units	Cts/S
Avg	**91800.**
Stddev	393.
%RSD	.428

Sample Name: CalibStd-100 Acquired: 08/20/2013 09:45:00 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**27200.**	**167.**
Stddev	276.	1.
%RSD	1.01	.433

Sample Name: CalibStd-200 Acquired: 08/20/2013 09:45:57 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**52800.**	**321.**
Stddev	372.	3.
%RSD	.704	.949

Sample Name: CalibStd-500 Acquired: 08/20/2013 09:47:03 Type: Cal
Method: Sodium and Potassium 1asx(v79) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3082	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.6**	**19.8**	**2.39**	**2.45**
Stddev	.0	.2	.01	.00
%RSD	.82	.962	.487	.105

Int. Std.	Y_3203
Units	Cts/S
Avg	**7302.7**
Stddev	33.3
%RSD	.45572

Sample Name: icv Acquired: 08/20/2013 09:48:17 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**101.**	**101.**	**-.16**	**.068**	**-.092**	**.166**
Stddev	1.	1.	.01	.006	.016	.048
%RSD	.524	.954	5.5	9.34	17.7	29.1
#1	101.	99.7	-.16	.075	-.077	.218
#2	100.	102.	-.17	.062	-.090	.159
#3	101.	101.	-.16	.068	-.109	.122
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8070.9**
Stddev	33.7
%RSD	.41808
#1	8038.7
#2	8106.0
#3	8068.0

Sample Name: icvLL Acquired: 08/20/2013 09:49:15 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**3.15**	**3.23**	**.91**	**1.94**	**1.45**	**1.03**
Stddev	.06	.06	.04	.02	.02	.02
%RSD	1.91	1.91	4.7	1.18	1.17	1.93
#1	3.16	3.25	.88	1.94	1.43	1.05
#2	3.20	3.28	.96	1.96	1.46	1.02
#3	3.08	3.16	.90	1.91	1.45	1.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8256.0**
Stddev	92.8
%RSD	1.1242
#1	8221.6
#2	8185.2
#3	8361.1

Sample Name: icb Acquired: 08/20/2013 09:50:12 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**.018**	**.030**	**-.21**	**.034**	**-.181**	**.051**
Stddev	.003	.001	.02	.003	.023	.040
%RSD	17.8	2.40	8.2	7.63	12.5	79.9
#1	.018	.031	-.20	.035	-.201	.097
#2	.015	.029	-.21	.036	-.157	.028
#3	.021	.030	-.23	.031	-.187	.026
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8371.1**
Stddev	39.4
%RSD	.47110
#1	8341.4
#2	8356.0
#3	8415.8

Sample Name: mrl Acquired: 08/20/2013 09:51:11 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**1.12**	**1.10**	**.17**	**.689**	**.390**	**.388**
Stddev	.01	.01	.01	.010	.039	.044
%RSD	1.06	1.04	6.2	1.41	10.1	11.4
#1	1.11	1.10	.17	.681	.373	.349
#2	1.11	1.10	.16	.685	.435	.379
#3	1.13	1.12	.18	.700	.361	.436
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8390.4**
Stddev	31.6
%RSD	.37613
#1	8424.1
#2	8385.7
#3	8361.5

Sample Name: icsa Acquired: 08/20/2013 09:52:08 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**.000**	**.402**	**.000**	**490.**	**498.**	**577.**	**496.**
Stddev	.02	.880	.00	8.	7.	4.	2.
%RSD	167000.	219.	16e15	1.6	1.41	.648	.350
#1	.021	1.35	.003	500.	504.	572.	496.
#2	-.021	-.392	-.003	490.	500.	578.	498.
#3	.000	.249	.000	480.	491.	579.	494.
Check ?	Chk Pass	None	Chk Pass	None	None	None	None
High Limit							
Low Limit							

Int. Std.	Y_3203
Units	Cts/S
Avg	**7468.1**
Stddev	130.9
%RSD	1.7527
#1	7352.9
#2	7441.0
#3	7610.4

Sample Name: icsab Acquired: 08/20/2013 09:53:21 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**98.7**	**91.9**	**490.**	**487.**	**577.**	**575.**
Stddev	1.2	1.4	5.	4.	2.	.
%RSD	1.22	1.46	.96	.735	.291	.027
#1	99.9	91.9	490.	490.	575.	576.
#2	97.5	93.3	480.	483.	579.	575.
#3	98.8	90.6	490.	488.	577.	575.
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**7504.5**
Stddev	73.3
%RSD	.97739
#1	7421.5
#2	7560.6
#3	7531.5

Sample Name: lcsw45497 Acquired: 08/20/2013 10:03:27 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**111.**	**101.**	**.69**	**113.**	**222.**	**.452**
Stddev	1.	1.	.04	1.	2.	.015
%RSD	1.13	1.39	5.5	1.10	.921	3.43

Int. Std.	Y_3203
Units	Cts/S
Avg	**8238.9**
Stddev	46.2
%RSD	.56046

Sample Name: ccv Acquired: 08/20/2013 10:04:32 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**103.**	**102.**	**-.22**	**.035**	**-.255**	**.045**
Stddev	.	1.	.02	.006	.021	.021
%RSD	.399	.834	8.4	17.5	8.13	46.0
#1	103.	102.	-.23	.042	-.239	.062
#2	103.	101.	-.24	.035	-.278	.049
#3	102.	102.	-.20	.029	-.248	.022
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8613.4**
Stddev	69.1
%RSD	.80223
#1	8540.9
#2	8678.4
#3	8621.0

Sample Name: ccb Acquired: 08/20/2013 10:05:29 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**.022**	**.030**	**-.28**	**.004**	**-.341**	**.016**
Stddev	.005	.001	.01	.004	.016	.015
%RSD	21.4	2.82	2.4	92.7	4.56	96.6
#1	.017	.031	-.27	.005	-.348	.013
#2	.025	.031	-.28	.000	-.323	.002
#3	.024	.029	-.28	.007	-.352	.032
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8835.8**
Stddev	12.6
%RSD	.14232
#1	8826.8
#2	8830.5
#3	8850.2

Sample Name: mbw45497 Acquired: 08/20/2013 10:06:29 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**-.015**	**.012**	**-.26**	**.001**	**-.313**	**.086**
Stddev	.014	.003	.01	.002	.030	.014
%RSD	93.2	23.2	5.1	240.	9.60	15.9

Int. Std.	Y_3203
Units	Cts/S
Avg	**8761.0**
Stddev	69.8
%RSD	.79663

Sample Name: 339561 Acquired: 08/20/2013 10:07:28 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**-.012**	**.089**	**-.24**	**.000**	**-.316**	**-.017**
Stddev	.022	.000	.02	.00	.053	.022
%RSD	177.	.216	9.2	650.	16.7	130.

Int. Std.	Y_3203
Units	Cts/S
Avg	**8700.3**
Stddev	95.2
%RSD	1.0947

Sample Name: I339561 Acquired: 08/20/2013 10:08:27 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**-.023**	**.021**	**-.29**	**.000**	**-.325**	**.010**
Stddev	.015	.001	.01	.00	.029	.016
%RSD	65.2	4.93	4.8	21100.	8.95	162.

Int. Std.	Y_3203
Units	Cts/S
Avg	**8921.4**
Stddev	42.8
%RSD	.47935

Sample Name: dup339561 Acquired: 08/20/2013 10:09:26 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**-.024**	**.082**	**-.27**	**-.001**	**-.325**	**-.022**
Stddev	.014	.003	.00	.002	.013	.034
%RSD	60.3	3.22	.50	278.	3.88	154.

Int. Std.	Y_3203
Units	Cts/S
Avg	**8677.2**
Stddev	11.7
%RSD	.13529

Sample Name: msw339561 Acquired: 08/20/2013 10:10:25 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**113.**	**102.**	**.77**	**112.**	**219.**	**.471**
Stddev	3.	1.	.04	2.	2.	.036
%RSD	2.50	1.31	5.6	1.93	1.11	7.61

Int. Std.	Y_3203
Units	Cts/S
Avg	**8218.8**
Stddev	101.8
%RSD	1.2391

Sample Name: msdw339561 Acquired: 08/20/2013 10:11:30 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**112.**	**103.**	**.67**	**112.**	**222.**	**.484**
Stddev	1.	.	.03	1.	1.	.030
%RSD	1.14	.131	3.7	.678	.364	6.22

Int. Std.	Y_3203
Units	Cts/S
Avg	**8265.7**
Stddev	17.0
%RSD	.20602

Sample Name: pdsw339561 Acquired: 08/20/2013 10:12:34 Type: Unk
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**103.**	**102.**	**-.24**	**.004**	**-.348**	**-.022**
Stddev	1.	2.	.01	.003	.027	.025
%RSD	.604	2.13	2.8	64.1	7.68	113.

Int. Std.	Y_3203
Units	Cts/S
Avg	**8542.1**
Stddev	32.4
%RSD	.37988

Sample Name: ccv Acquired: 08/20/2013 10:16:40 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na3302	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**105.**	**103.**	**-.22**	**.032**	**-.329**	**.059**
Stddev	1.	1.	.01	.001	.038	.021
%RSD	1.03	.603	6.7	1.72	11.7	35.3
#1	105.	103.	-.20	.032	-.290	.061
#2	103.	103.	-.22	.031	-.367	.078
#3	105.	104.	-.23	.032	-.330	.037
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8477.1**
Stddev	165.5
%RSD	1.9526
#1	8287.1
#2	8590.3
#3	8553.9

Sample Name: ccb Acquired: 08/20/2013 10:17:37 Type: QC
Method: Sodium and Potassium 1asx(v79) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	K_7664	Na5895	Al3082	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	**.022**	**.044**	**-.25**	**.003**	**-.361**	**-.004**
Stddev	.007	.005	.01	.001	.021	.008
%RSD	33.7	10.2	3.2	21.4	5.78	205.
#1	.024	.049	-.24	.002	-.381	-.006
#2	.028	.043	-.26	.003	-.363	-.011
#3	.014	.040	-.26	.003	-.340	.005
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**8874.6**
Stddev	22.6
%RSD	.25453
#1	8848.6
#2	8889.7
#3	8885.5

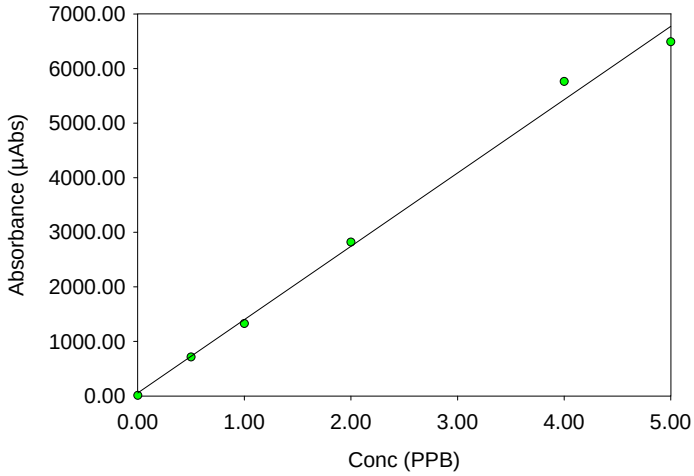
CETAC Hg Analysis Report - 13082100.DB - 08/21/2013, 11:39:16

Analyst
Date Started 08/21/2013, 08:04:31
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	21-Aug-2013, 08:04	0.00	47.50	12.90	1.00	
Standard #1	21-Aug-2013, 08:06	0.50	15.00	718.00	1.00	
Standard #2	21-Aug-2013, 08:08	1.00	19.00	1330.00	1.00	
Standard #3	21-Aug-2013, 08:10	2.00	15.90	2820.00	1.00	
Standard #4	21-Aug-2013, 08:12	4.00	14.40	5770.00	1.00	
Standard #5	21-Aug-2013, 08:14	5.00	15.20	6500.00	1.00	

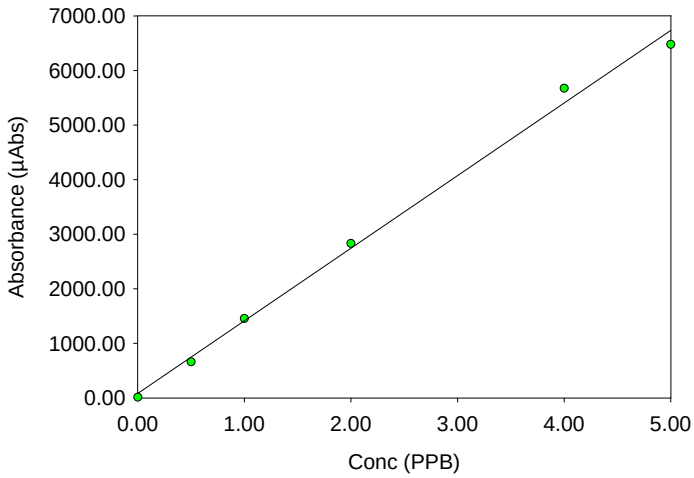
Calibration Data



Int.	58.167
Slope	1343.743
Correlation	0.99723

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	21-Aug-2013, 08:17	0.00	44.10	17.20	1.00	
Standard #1	21-Aug-2013, 08:18	0.50	26.60	664.00	1.00	Q
Standard #2	21-Aug-2013, 08:20	1.00	17.50	1460.00	1.00	
Standard #3	21-Aug-2013, 08:22	2.00	19.40	2840.00	1.00	
Standard #4	21-Aug-2013, 08:24	4.00	16.50	5680.00	1.00	
Standard #5	21-Aug-2013, 08:26	5.00	17.60	6480.00	1.00	

Calibration Data



Int.	84.070
Slope	1330.450
Correlation	0.99776

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICV	21-Aug-2013, 08:29	3.07	17.20	4170.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICB	21-Aug-2013, 08:31	-0.06	12.30	3.67	1.00	

Analyst
Date Started 08/21/2013, 08:33:27
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339889 LCSW45523	21-Aug-2013, 08:33	2.52	42.50	3440.00	1.00	Q
339888 MBW45523	21-Aug-2013, 08:35	-0.06	4.30	1.89	1.00	
337837	21-Aug-2013, 08:37	-0.07	5.95	-6.49	1.00	
MSW337837	21-Aug-2013, 08:39	1.95	50.50	2680.00	1.00	Q
MSDW337837	21-Aug-2013, 08:41	1.92	50.50	2640.00	1.00	Q
PDSW337837	21-Aug-2013, 08:43	1.89	51.90	2600.00	1.00	Q
338440	21-Aug-2013, 08:45	-0.06	16.40	10.40	1.00	
340122 LCSW45534	21-Aug-2013, 08:46	3.16	16.70	4290.00	1.00	
340121 MBW45534	21-Aug-2013, 08:48	-0.06	5.31	8.10	1.00	
339578	21-Aug-2013, 08:50	-0.07	2.78	-7.50	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 08:52	3.03	14.20	4120.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 08:54	-0.05	5.05	17.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339580	21-Aug-2013, 08:56	-0.04	13.50	25.40	1.00	
L339580	21-Aug-2013, 08:58	-0.07	5.38	-2.73	1.00	
DUP339580	21-Aug-2013, 09:00	-0.05	13.80	22.10	1.00	
MSW339580	21-Aug-2013, 09:02	2.00	12.60	2740.00	1.00	
MSDW339580	21-Aug-2013, 09:04	2.03	20.90	2790.00	1.00	Q
PDSW339580	21-Aug-2013, 09:06	2.01	17.90	2760.00	1.00	
339926 LCSW45526	21-Aug-2013, 09:08	2.87	23.50	3900.00	1.00	Q
339925 MBW45526	21-Aug-2013, 09:10	-0.06	9.02	8.67	1.00	
338832	21-Aug-2013, 09:12	-0.07	3.34	-5.39	1.00	
L338832	21-Aug-2013, 09:14	-0.05	7.81	11.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 09:16	2.98	17.90	4050.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 09:18	-0.05	2.09	16.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
DUP338832	21-Aug-2013, 09:20	-0.06	5.82	4.03	1.00	
MSW338832	21-Aug-2013, 09:22	1.87	17.60	2570.00	1.00	
MSDW338832	21-Aug-2013, 09:24	1.92	19.50	2640.00	1.00	
PDSW338832	21-Aug-2013, 09:26	1.99	19.00	2740.00	1.00	
340064 LCSW45531	21-Aug-2013, 09:28	2.95	16.70	4010.00	1.00	
340063 MBW45531	21-Aug-2013, 09:30	-0.06	14.00	7.86	1.00	
339897	21-Aug-2013, 09:31	-0.06	4.18	6.22	1.00	
MSW339897	21-Aug-2013, 09:33	1.99	18.10	2740.00	1.00	
MSDW339897	21-Aug-2013, 09:35	1.81	29.80	2500.00	1.00	Q
PDSW339897	21-Aug-2013, 09:37	0.31	16.50	496.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 09:39	2.82	25.90	3830.00	1.00	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 09:41	-0.05	2.70	19.30	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339870 LCSW45520	21-Aug-2013, 09:43	2.79	18.70	3800.00	1.00	
339869 MBW45520	21-Aug-2013, 09:45	-0.04	14.80	27.10	1.00	
338753	21-Aug-2013, 09:47	0.00	547.00	87.10	1.00	
MSW338753	21-Aug-2013, 09:49	2.04	21.00	2800.00	1.00	Q
MSDW338753	21-Aug-2013, 09:51	2.01	20.70	2760.00	1.00	Q
PDSW338753	21-Aug-2013, 09:53	1.97	19.30	2700.00	1.00	
339445	21-Aug-2013, 09:55	-0.05	6.25	19.80	1.00	
MSW339445	21-Aug-2013, 09:57	2.00	19.70	2740.00	1.00	
MSDW339445	21-Aug-2013, 09:59	2.02	17.40	2780.00	1.00	

Analyst
Date Started 08/21/2013, 10:01:21
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
PDSW339445	21-Aug-2013, 10:01	1.91	19.00	2630.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 10:03	2.95	19.40	4010.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 10:05	-0.06	13.90	7.32	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339447	21-Aug-2013, 10:07	-0.06	8.00	1.52	1.00	
339448	21-Aug-2013, 10:09	-0.05	10.80	12.70	1.00	
339449	21-Aug-2013, 10:11	-0.07	2.86	-4.73	1.00	
339558	21-Aug-2013, 10:13	-0.06	9.03	1.19	1.00	
339921 LCSW45525	21-Aug-2013, 10:15	2.88	19.00	3920.00	1.00	
339920 MBW45525	21-Aug-2013, 10:17	-0.06	2.11	7.26	1.00	
338540	21-Aug-2013, 10:19	-0.06	4.49	-0.26	1.00	
L338540	21-Aug-2013, 10:21	-0.06	6.81	-1.18	1.00	
DUP338540	21-Aug-2013, 10:23	-0.06	5.32	0.67	1.00	
MSW338540	21-Aug-2013, 10:25	2.03	18.60	2780.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 10:26	2.96	20.60	4020.00	1.00	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 10:28	-0.05	1.88	17.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
MSDW338540	21-Aug-2013, 10:30	1.81	20.20	2490.00	1.00	
PDSW338540	21-Aug-2013, 10:32	1.83	31.60	2520.00	1.00	Q
339936 LCSW45528	21-Aug-2013, 10:34	2.79	17.80	3790.00	1.00	
339935 MBW45528	21-Aug-2013, 10:36	-0.05	12.30	18.70	1.00	
339570	21-Aug-2013, 10:38	-0.06	7.76	7.66	1.00	
L339570	21-Aug-2013, 10:40	-0.06	7.55	9.66	1.00	
DUP339570	21-Aug-2013, 10:42	-0.06	9.46	4.12	1.00	
MSW339570	21-Aug-2013, 10:44	2.00	19.10	2740.00	1.00	
MSDW339570	21-Aug-2013, 10:46	2.00	19.70	2750.00	1.00	
PDSW339570	21-Aug-2013, 10:48	1.99	20.80	2740.00	1.00	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 10:50	2.95	19.60	4010.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 10:52	-0.05	3.28	20.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339931 LCSW45527	21-Aug-2013, 10:54	2.76	18.70	3760.00	1.00	
339930 MBW45527	21-Aug-2013, 10:56	-0.04	8.81	25.60	1.00	
339561	21-Aug-2013, 10:58	-0.06	1.69	3.64	1.00	
L339561	21-Aug-2013, 11:00	-0.05	7.63	11.50	1.00	
DUP339561	21-Aug-2013, 11:02	-0.06	2.81	4.99	1.00	
MSW339561	21-Aug-2013, 11:04	1.85	22.60	2550.00	1.00	Q
MSDW339561	21-Aug-2013, 11:06	1.97	20.30	2710.00	1.00	
PDSW339561	21-Aug-2013, 11:08	1.99	22.30	2730.00	1.00	Q
339916 LCSW45524	21-Aug-2013, 11:10	2.74	19.70	3730.00	1.00	
339915 MBW45524	21-Aug-2013, 11:12	-0.05	10.60	21.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 11:14	2.79	24.80	3790.00	1.00	Q

Analyst
Date Started 08/21/2013, 11:16:24
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 11:16	-0.05	2.75	17.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
336370	21-Aug-2013, 11:18	-0.06	2.34	6.72	1.00	
L336370	21-Aug-2013, 11:20	-0.06	10.30	3.52	1.00	
DUP336370	21-Aug-2013, 11:22	-0.06	4.12	0.91	1.00	
MSW336370	21-Aug-2013, 11:24	1.93	22.10	2660.00	1.00	Q
MSDW336370	21-Aug-2013, 11:26	1.92	22.80	2630.00	1.00	Q
PDSW336370	21-Aug-2013, 11:28	1.91	19.40	2630.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 11:30	2.86	25.00	3890.00	1.00	Q

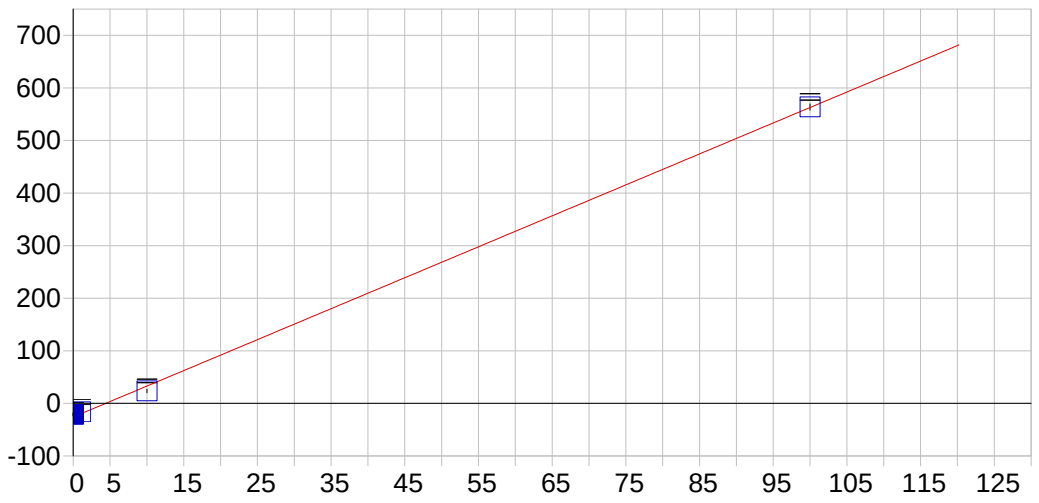
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 11:32	-0.05	8.68	19.50	1.00	

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	08/27/2013 09:22:47	08/23/2013 13:20:48	Linear	None	-25.949292	5.887491	0.000000	1.000000	0.999741	7.940704	0.747024	2.490080
Al 309.271 {109}	08/27/2013 09:22:47	08/23/2013 13:33:52	Curvilin	1/Conc	2.531380	0.154925	-0.000000	1.000000	0.999994	0.344826	23.418777	78.062589
Al 396.152 { 85}	08/27/2013 09:22:47	08/23/2013 13:40:41	Curvilin	1/Conc	-4.113604	0.443525	-0.000000	1.000000	0.999922	32.210686	11.486246	38.287485
Al 167.079 {502}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	None	2.788437	0.585652	0.000000	1.000000	0.999991	1.274655	0.533368	1.777892
As 193.759 {474}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	None	-0.704381	0.349786	0.000000	1.000000	0.999999	0.189806	1.971259	6.570863
As 189.042 {479}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	0.863340	0.080488	0.000000	1.000000	0.999994	1.645186	5.271138	17.570461
Ba 455.403 { 74}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	85.136426	29.117385	0.000000	1.000000	1.000000	48.733935	0.232481	0.774937
Ba 493.409 { 68}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	-141.66679	23.782597	0.000000	1.000000	1.000000	43.889769	0.637637	2.125457
Be 313.042 {108}	08/27/2013 09:22:47	08/23/2013 13:20:48	Linear	1/Conc	4.730117	9.493399	0.000000	1.000000	0.997156	0.149360	0.169639	0.565465
Be 234.861 {144}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	1/Conc	0.499245	0.925445	0.000000	1.000000	0.999995	0.051508	1.066059	3.553531
Ca 317.933 {106}	08/27/2013 09:22:47	08/23/2013 13:40:41	Curvilin	1/Conc	0.010010	0.000004	0.000000	1.000000	0.999989	0.000028	5.241730	17.472432
Ca 393.366 { 86}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	None	986.957124	69.842622	0.000000	1.000000	0.999874	647.589119	0.057732	0.192439
Ca 396.847 { 85}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	348.920367	26.317697	0.000000	1.000000	0.999999	216.935462	0.113771	0.379237
Cd 226.502 {449}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	None	2.539310	10.518625	0.000000	1.000000	0.999998	6.984934	0.105645	0.352150
Cd 228.802 {447}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	1/Conc	2.925437	11.319860	0.000000	1.000000	0.999981	1.280024	0.114259	0.380863
Co 228.616 {447}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	1/Conc	-1.324873	6.223215	0.000000	1.000000	0.999965	0.154366	0.186061	0.620202
Co 238.892 {141}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	1.413093	0.190869	0.000000	1.000000	0.999955	0.327162	6.723024	22.410081
Cr 267.716 {126}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	None	5.146720	9.837728	0.000000	1.000000	0.999994	14.988106	0.442403	1.474675
Cr 283.563 {119}	08/27/2013 09:22:47	08/23/2013 13:30:20	Linear	None	5.178699	0.555955	0.000000	1.000000	1.000000	17.701776	3.129199	10.430664
Cu 224.700 {450}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	-0.515483	2.545805	0.000000	1.000000	0.999774	0.466897	0.456491	1.521638
Cu 324.754 {104}	08/27/2013 09:22:47	08/23/2013 13:30:20	Linear	1/Conc	0.001352	0.000010	0.000000	1.000000	0.999937	0.000015	3.389361	11.297870
Cu 327.396 {103}	08/27/2013 09:22:47	08/23/2013 13:30:20	Linear	1/Conc	-0.000184	0.000004	0.000000	1.000000	0.999954	0.000002	10.337522	34.458407
Fe 234.349 {144}	08/27/2013 09:22:47	08/23/2013 13:40:41	Full Fit	1/Conc	1.519907	0.051205	-0.000000	0.980000	0.999995	0.244763	13.740520	45.801733
Fe 239.562 {141}	08/27/2013 09:22:47	08/23/2013 13:33:52	Linear	None	16.733793	0.068593	0.000000	1.000000	0.999978	27.088589	10.764740	35.882467
Fe 259.940 {130}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	1.830093	0.241735	0.000000	1.000000	0.999918	0.056760	5.386320	17.954400
Mg 202.582 {466}	08/27/2013 09:22:47	08/23/2013 13:40:41	Full Fit	1/Conc	-5.647141	1.118601	-0.000001	0.930000	0.999951	30.116361	0.784853	2.616176
Mg 279.079 {121}	08/27/2013 09:22:47	08/23/2013 13:40:41	Linear	1/Conc	-0.369126	0.012745	0.000000	1.000000	0.999406	2.275885	64.036801	213.456005
Mg 280.270 {120}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	-0.000069	0.000053	0.000000	1.000000	0.999997	0.000642	0.209470	0.698233
Mn 257.610 {131}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	1/Conc	-0.000008	0.000015	0.000000	1.000000	0.999725	0.000001	0.766790	2.555965
Mn 259.373 {130}	08/27/2013 09:22:47	08/23/2013 13:30:20	Linear	1/Conc	0.000002	0.000018	0.000000	1.000000	0.999836	0.000156	0.991882	3.306274
Mo 203.844 {465}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	1/Conc	4.827034	2.172893	0.000000	1.000000	0.999964	0.023265	0.437095	1.456984
Mo 202.030 {467}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	1/Conc	-0.378706	2.213894	0.000000	1.000000	0.999994	0.033423	0.286958	0.956527
Mo 204.598 {465}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	8.662015	1.008987	0.000000	1.000000	0.999995	15.844519	0.693076	2.310255
Ni 221.647 {452}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	91.638366	4.010871	0.000000	1.000000	0.999982	143.062339	0.346482	1.154940
Ni 231.604 {445}	08/27/2013 09:22:47	08/23/2013 13:23:33	Linear	1/Conc	1.352053	5.482027	0.000000	1.000000	0.999957	0.150536	0.325979	1.086598
Pb 216.999 {455}	08/27/2013 09:22:47	08/23/2013 13:30:20	Curvilin	1/Conc	1.152382	0.373917	-0.000000	1.000000	0.999956	0.580829	2.834633	9.448776
Pb 220.353 {453}	08/27/2013 09:22:47	08/23/2013 13:23:34	Linear	None	4.925136	1.083040	0.000000	1.000000	0.999994	1.904961	1.023945	3.413149
Sb 206.833 {463}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	1.073638	0.520114	0.000000	1.000000	0.999878	0.110307	1.551156	5.170519
Sb 217.581 {455}	08/27/2013 09:22:47	08/23/2013 13:23:34	Linear	1/Conc	-3.507950	0.560819	0.000000	1.000000	0.999905	0.033571	2.110348	7.034492
Se 196.090 {172}	08/27/2013 09:22:47	08/23/2013 13:26:58	Curvilin	1/Conc	0.741710	0.212461	-0.000000	1.000000	0.999952	0.030639	6.338110	21.127035
Se 196.090 {472}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	0.011856	0.334657	0.000000	1.000000	0.999832	0.079286	2.232727	7.442424
Se 206.279 {463}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	-3.393970	0.053746	0.000000	1.000000	0.999768	0.210168	21.502959	71.676529
Tl 276.787 {122}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	None	-0.000007	0.000000	0.000000	1.000000	0.999997	0.000002	186.988910	623.296368
Tl 190.856 {477}	08/27/2013 09:22:47	08/23/2013 13:23:34	Linear	1/Conc	-0.107189	0.316695	0.000000	1.000000	0.999937	0.015593	1.682774	5.609247

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
	Al 309.271 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	Al 167.079 {502}	OK.	1.000000	0.000000	1	0
	As 193.759 {474}	OK.	1.000000	0.000000	1	0
	As 189.042 {479}	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
	Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	OK.	1.000000	0.000000	1	0
	Be 234.861 {144}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
	Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
	Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	OK.	1.000000	0.000000	1	0
	Co 238.892 {141}	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
	Cr 283.563 {119}	OK.	1.000000	0.000000	1	0
	Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	OK.	1.000000	0.000000	1	0
	Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
	Fe 239.562 {141}	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	OK.	1.000000	0.000000	1	0
	Mg 202.582 {466}	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
	Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
	Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
	Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	OK.	1.000000	0.000000	1	0
	Mo 204.598 {465}	OK.	1.000000	0.000000	1	0
	Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
	Pb 216.999 {455}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
	Sb 217.581 {455}	OK.	1.000000	0.000000	1	0
	Se 196.090 {172}	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	OK.	1.000000	0.000000	1	0
	Se 206.279 {463}	OK.	1.000000	0.000000	1	0
	Tl 276.787 {122}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	OK.	1.000000	0.000000	1	0

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	0.183667	0.440991	0.000000	1.000000	0.999922	0.997593	5.887715	19.625716
V 292.402 {115}	08/27/2013 09:22:47	08/23/2013 13:23:34	Linear	1/Conc	15.282184	14.051379	0.000000	1.000000	0.999977	0.396268	0.503056	1.676854
Zn 206.200 {463}	08/27/2013 09:22:47	08/23/2013 13:30:20	Full Fit	None	-11.726936	6.351558	-0.000010	0.980000	1.000000	0.000000	0.140962	0.469875
Zn 213.856 {458}	08/27/2013 09:22:47	08/23/2013 13:23:34	Linear	1/Conc	6.650840	4.252022	0.000000	1.000000	0.999922	0.233125	0.163959	0.546529
Y 360.073 { 94}*	08/27/2013 09:22:47	08/23/2013 12:54:17	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Na 330.298 {102}	08/27/2013 09:22:47	08/23/2013 13:30:20	Linear	1/Conc	0.000015	0.000000	0.000000	1.000000	1.000000	0.000000	68621.3142	228737.714
Si 251.611 {134}	08/27/2013 09:22:47	08/23/2013 13:23:34	Linear	None	3.905064	0.124361	0.000000	1.000000	1.000000	0.000000	12.365232	41.217440
Ti 334.941 {101}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	0.000014	0.000021	0.000000	1.000000	0.999901	0.000001	1.215076	4.050253
Ti 337.280 {100}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	-0.000052	0.000027	0.000000	1.000000	0.999872	0.000002	1.317497	4.391658
Sr 407.771 { 83}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	-0.005866	0.000525	0.000000	1.000000	0.999979	0.000014	0.141053	0.470178
Sr 421.552 { 80}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	-0.000072	0.000446	0.000000	1.000000	0.999959	0.000016	0.135397	0.451322
Sn 189.989 {477}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	0.000016	0.000011	0.000000	1.000000	0.999798	0.000002	0.584354	1.947846
Sn 283.999 {119}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	0.000008	0.000000	0.000000	1.000000	0.998976	0.000001	41.791690	139.305634
B 249.773 {135}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	0.000006	0.000002	0.000000	1.000000	0.999728	0.000001	8.035888	26.786292
Li 670.784 { 50}	08/27/2013 09:22:47	08/23/2013 13:26:58	Linear	1/Conc	0.000186	0.000120	0.000000	1.000000	0.999907	0.000022	1.126090	3.753632

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {458}	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	Warnin	1.000000	0.000000	1	0
	Na 330.298 {102}	OK.	1.000000	0.000000	1	0
	Si 251.611 {134}	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0
	Ti 337.280 {100}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	OK.	1.000000	0.000000	1	0
	Sn 283.999 {119}	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0

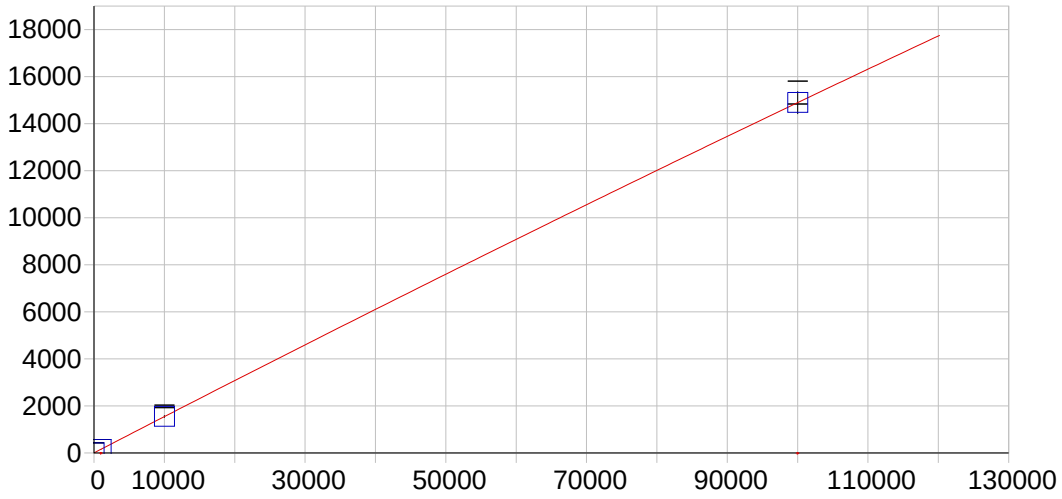


Ag 328.068 {103}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-25.949292	Re-Slope:	1.000000
A1 (Gain):	5.887491	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	7.940704		
Predicted MDL:	0.747024		
Predicted MQL:	2.490080		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.83012	.830	.000	-21.062	2.92	1
CalibStd=10	10.000	8.4032	-1.60	-16.0	23.525	3.46	1
CalibStd=1	1.0000	1.6131	.613	61.3	-16.452	5.30	1
CalibStd=100	100.00	100.15	.154	.154	563.70	6.07	1

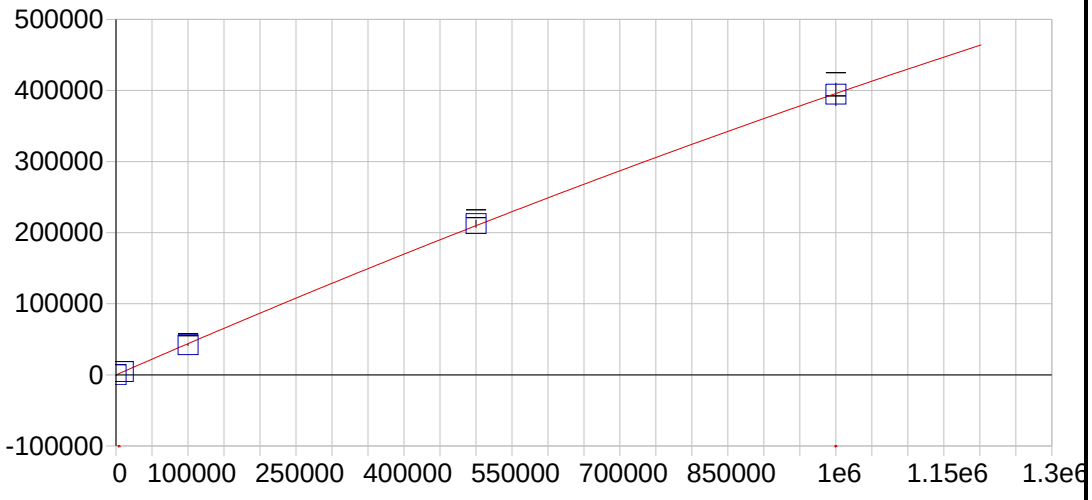


Al 309.271 {109}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	2.531380	Re-Slope:	1.000000
A1 (Gain):	0.154925	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.344826		
Predicted MDL:	23.418777		
Predicted MQL:	78.062589		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02962	.030	.000	2.5360	1.92	1
CalibStd=100	10000.	10037.	36.9	.369	1551.5	54.9	1
CalibStd=100	1000.0	966.73	-33.3	-3.33	152.25	10.2	1
CalibStd-100	100000.	99996.	-3.60	-.004	14895.	485.	1

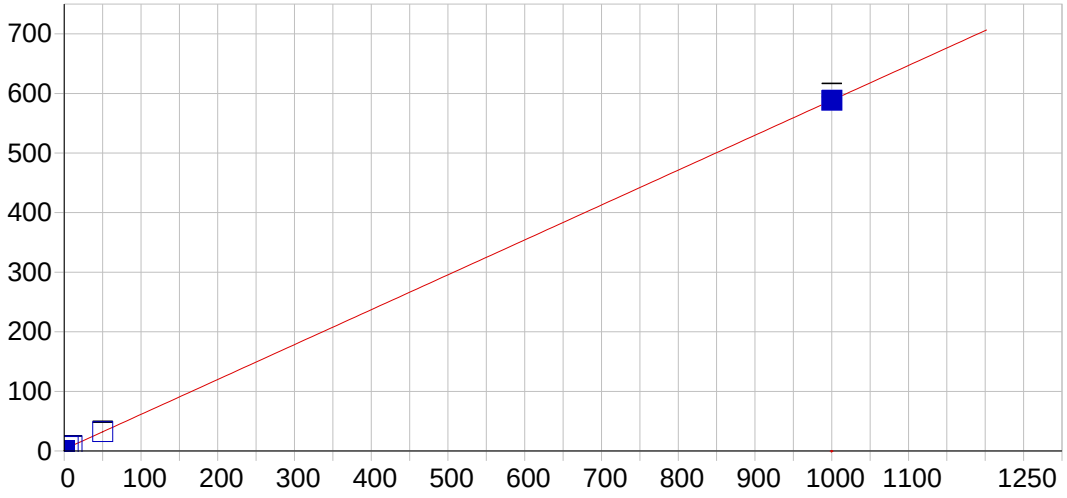


Al 396.152 { 85}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-4.113604	Re-Slope:	1.000000
A1 (Gain):	0.443525	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	32.210686		
Predicted MDL:	11.486246		
Predicted MQL:	38.287485		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.09022	.090	.000	-4.0736	3.39	1
CalibStd-100	1000000.	996580.	-3420.	-.342	394600.	16400.	1
CalibStd=500	500000.	506820.	6820.	1.36	212520.	5540.	1
CalibStd=100	10000.	10172.	172.	1.72	4502.5	173.	1
CalibStd-100	100000.	96357.	-3640.	-3.64	42289.	1430.	1

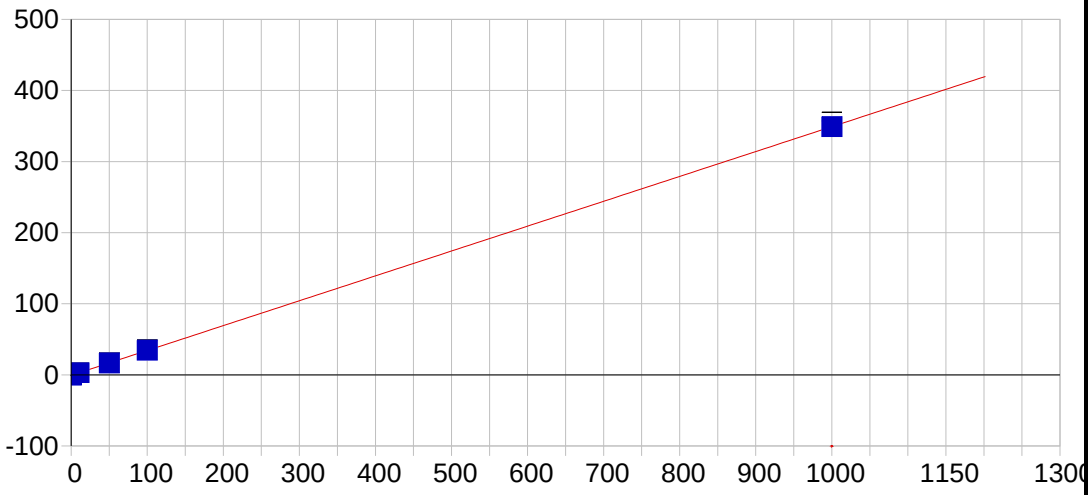


Al 167.079 {502}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2.788437	Re-Slope:	1.000000
A1 (Gain):	0.585652	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	1.274655		
Predicted MDL:	0.533368		
Predicted MQL:	1.777892		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.5182	-2.52	.000	1.3136	.057	1
CalibStd=100	1000.0	999.98	-.015	-.002	588.80	11.3	1
CalibStd=10	10.000	9.6503	-.350	-3.50	8.4402	.298	1
CalibStd=5	5.0000	7.7815	2.78	55.6	7.3457	.213	1
CalibStd=50	50.000	50.102	.102	.204	32.131	.851	1

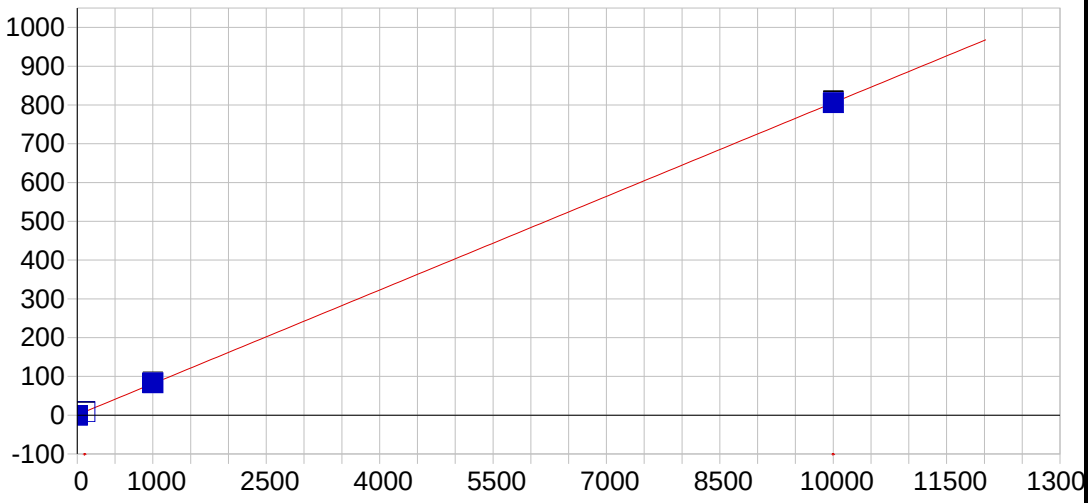


As 193.759 {474}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.704381	Re-Slope:	1.000000
A1 (Gain):	0.349786	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.189806		
Predicted MDL:	1.971259		
Predicted MQL:	6.570863		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.35478	.355	.000	-.58029	1.04	1
CalibStd=100	1000.0	999.97	-.027	-.003	349.02	6.00	1
CalibStd=50	50.000	49.460	-.540	-1.08	16.596	.584	1
CalibStd=10	10.000	9.6352	-.365	-3.65	2.6659	.156	1
CalibStd=100	100.00	100.58	.577	.577	34.476	.573	1

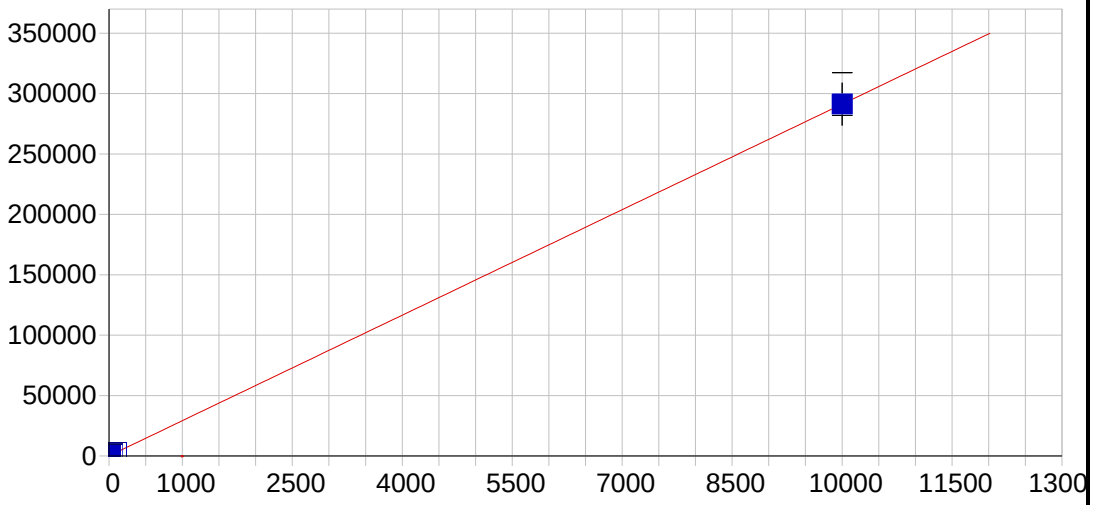


As 189.042 {479}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.863340	Re-Slope:	1.000000
A1 (Gain):	0.080488	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	1.645186		
Predicted MDL:	5.271138		
Predicted MQL:	17.570461		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-15.954	-16.0	.000	-.42077	.191	1
CalibStd=100	1000.0	1023.4	23.4	2.34	83.231	1.32	1
CalibStd=100	10000.	9997.7	-2.29	-.023	805.50	3.87	1
CalibStd=100	100.00	94.816	-5.18	-5.18	8.4949	.272	1

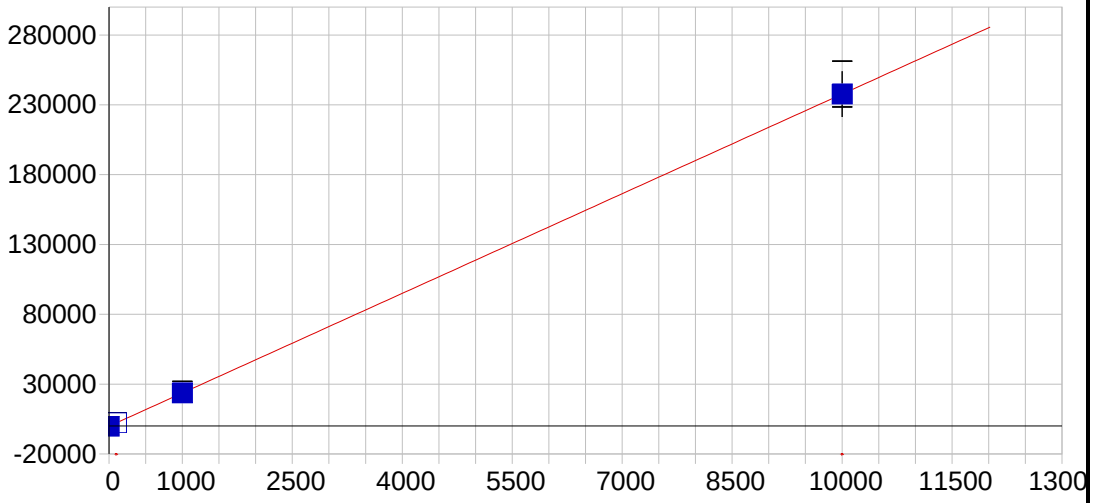


Ba 455.403 { 74}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	85.136426	Re-Slope:	1.000000
A1 (Gain):	29.117385	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	48.733935		
Predicted MDL:	0.232481		
Predicted MQL:	0.774937		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.5707	-1.57	.000	39.401	4.36	1
CalibStd=50	50.000	51.359	1.36	2.72	1580.6	64.8	1
CalibStd=10	10.000	9.3562	-.644	-6.44	357.56	15.9	1
CalibStd=20	20.000	19.332	-.668	-3.34	648.05	27.8	1
CalibStd=100	100.00	102.73	2.73	2.73	3076.4	99.0	1
CalibStd=5	5.0000	3.8251	-1.17	-23.5	196.51	1.80	1
CalibStd=100	10000.	10000.0	-.032	.000	291260.	17700.	1

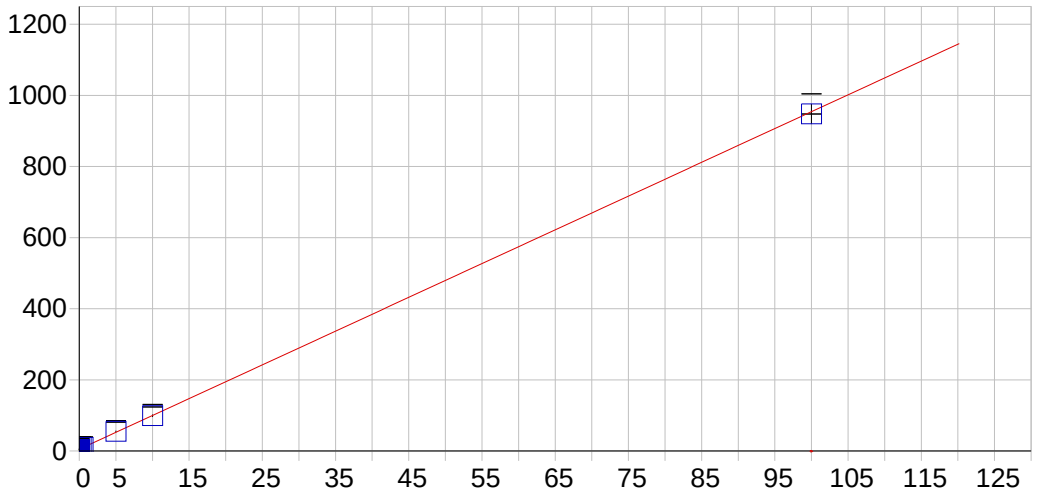


Ba 493.409 { 68}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-141.666799	Re-Slope:	1.000000
A1 (Gain):	23.782597	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	43.889769		
Predicted MDL:	0.637637		
Predicted MQL:	2.125457		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.0878	-2.09	.000	-191.32	13.4	1
CalibStd=100	1000.0	1001.0	.999	.100	23665.	1150.	1
CalibStd=100	10000.	9999.9	-.112	-.001	237680.	16400.	1
CalibStd=100	100.00	101.20	1.20	1.20	2265.2	81.1	1

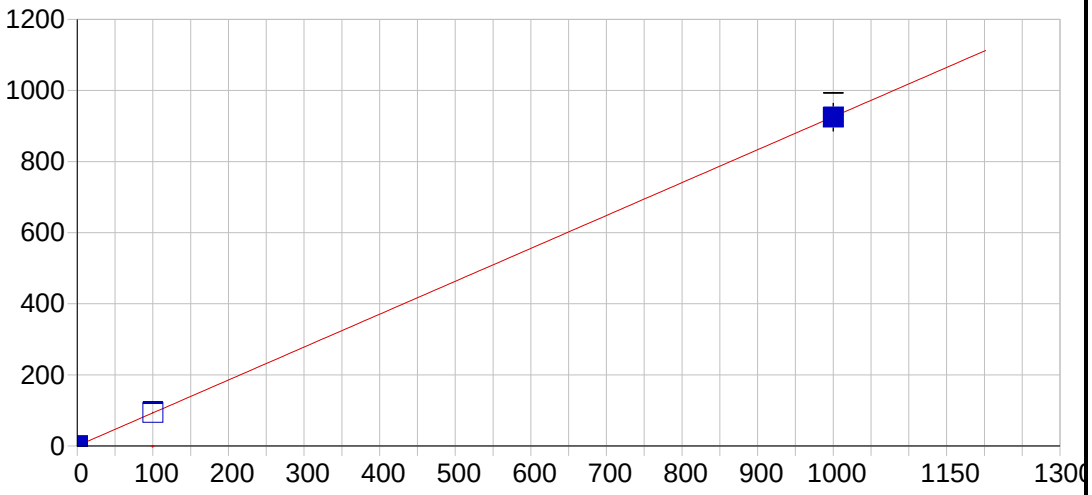


Be 313.042 {108}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	4.730117	Re-Slope:	1.000000
A1 (Gain):	9.493399	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997156	Status:	OK.
Std Error of Est:	0.149360		
Predicted MDL:	0.169639		
Predicted MQL:	0.565465		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00044	.000	.000	4.7259	1.65	1
CalibStd=10	10.000	9.9371	-.063	-.629	99.067	3.67	1
CalibStd=100	100.00	99.313	-.687	-.687	947.55	28.3	1
CalibStd=0.5	.50000	.57270	.073	14.5	10.167	1.26	1
CalibStd=5	5.0000	5.2803	.280	5.61	54.858	2.39	1
CalibStd=0.2	.25000	.64653	.397	159.	10.868	.699	1

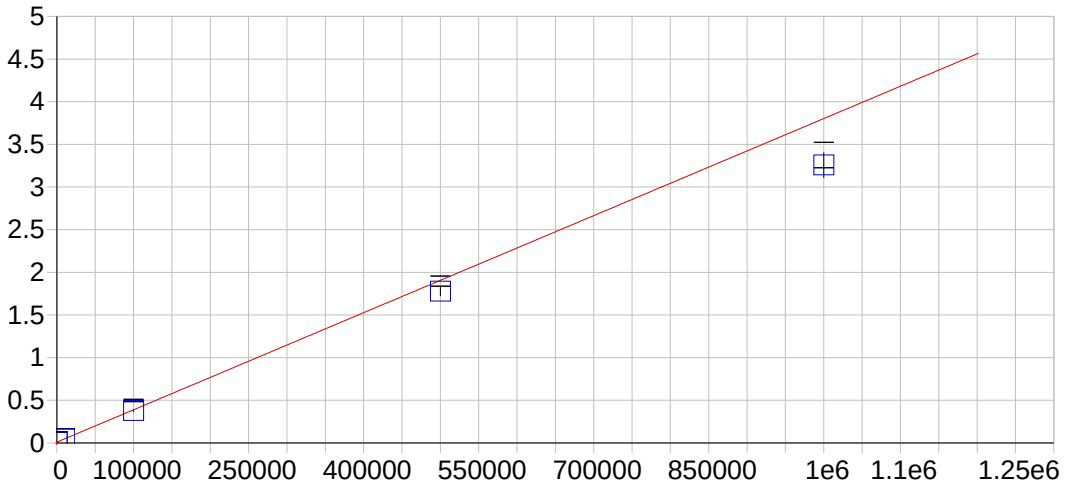


Be 234.861 {144}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.499245	Re-Slope:	1.000000
A1 (Gain):	0.925445	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.051508		
Predicted MDL:	1.066059		
Predicted MQL:	3.553531		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00087	-.001	.000	.49844	.364	1
CalibStd=100	1000.0	999.03	-.969	-.097	924.96	40.1	1
CalibStd=100	100.00	100.97	.969	.969	93.940	2.09	1

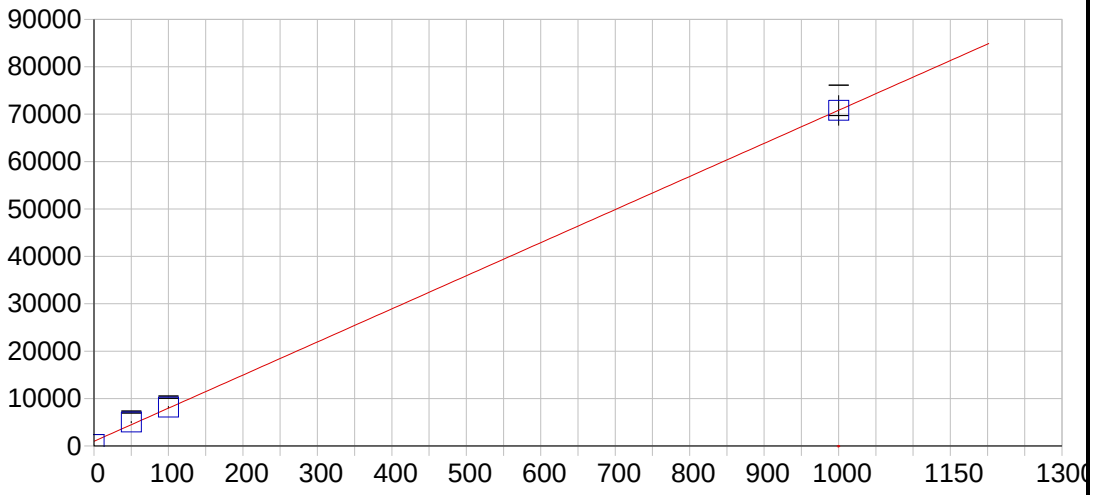


Ca 317.933 {106}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.010010	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	5.241730		
Predicted MQL:	17.472432		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.05113	.051	.000	.01001	.000	1
CalibStd=100	10000.	10085.	85.2	.852	.04826	.001	1
CalibStd=500	500000.	466370.	-33600.	-6.73	1.7786	.059	1
CalibStd-100	1000000.	856170.	-144000.	-14.4	3.2568	.149	1
CalibStd=100	1000.0	947.69	-52.3	-5.23	.01360	.000	1
CalibStd-100	100000.	97353.	-2650.	-2.65	.37920	.014	1

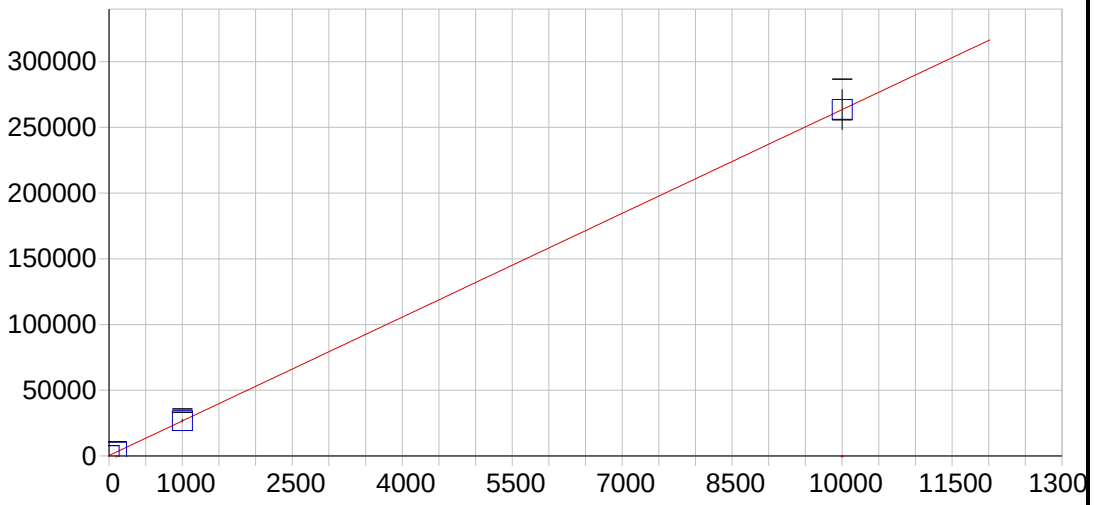


Ca 393.366 { 86}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	986.957124	Re-Slope:	1.000000
A1 (Gain):	69.842622	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	647.589119		
Predicted MDL:	0.057732		
Predicted MQL:	0.192439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-10.025	-10.0	.000	286.79	5.58	1
CalibStd=50	50.000	57.974	7.97	15.9	5036.0	199.	1
CalibStd=100	1000.0	999.33	-.671	-.067	70783.	3210.	1
CalibStd=100	100.00	102.72	2.72	2.72	8161.3	242.	1

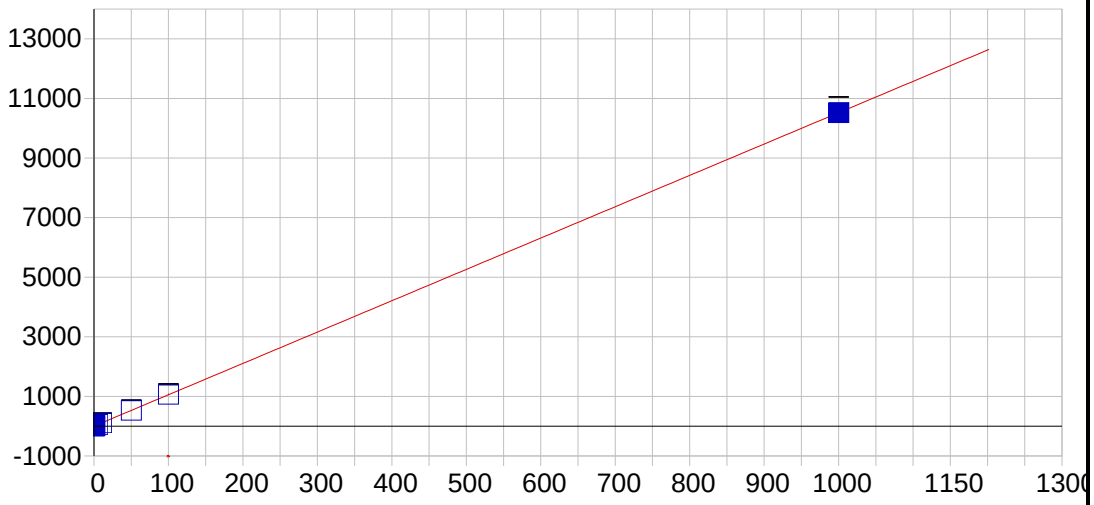


Ca 396.847 { 85}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	348.920367	Re-Slope:	1.000000
A1 (Gain):	26.317697	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	216.935462		
Predicted MDL:	0.113771		
Predicted MQL:	0.379237		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-9.2746	-9.27	.000	104.83	1.88	1
CalibStd=100	10000.	9999.4	-.599	-.006	263510.	15500.	1
CalibStd=100	100.00	104.32	4.32	4.32	3094.3	97.0	1
CalibStd=100	1000.0	1005.6	5.56	.556	26813.	1250.	1

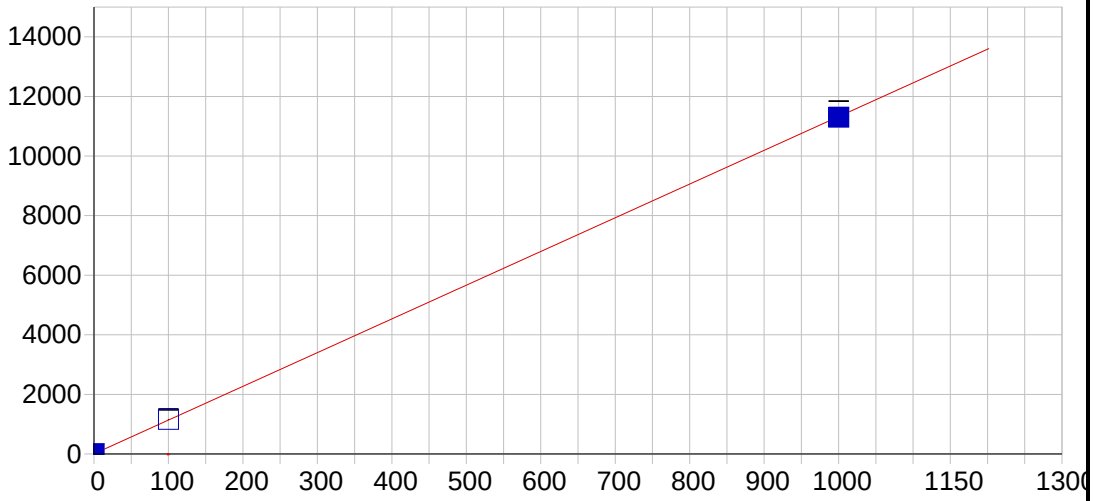


Cd 226.502 {449}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2.539310	Re-Slope:	1.000000
A1 (Gain):	10.518625	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	6.984934		
Predicted MDL:	0.105645		
Predicted MQL:	0.352150		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.45248	-.452	.000	-2.2201	.660	1
CalibStd=50	50.000	50.032	.032	.065	528.81	11.2	1
CalibStd=1	1.0000	.69392	-.306	-30.6	9.8384	.719	1
CalibStd=0.5	.50000	.18178	-.318	-63.6	4.4514	1.18	1
CalibStd=5	5.0000	4.8923	-.108	-2.15	53.999	1.22	1
CalibStd=100	100.00	101.48	1.48	1.48	1069.9	18.8	1
CalibStd=10	10.000	9.8220	-.178	-1.78	105.85	2.45	1
CalibStd=100	1000.0	999.85	-.146	-.015	10521.	195.	1

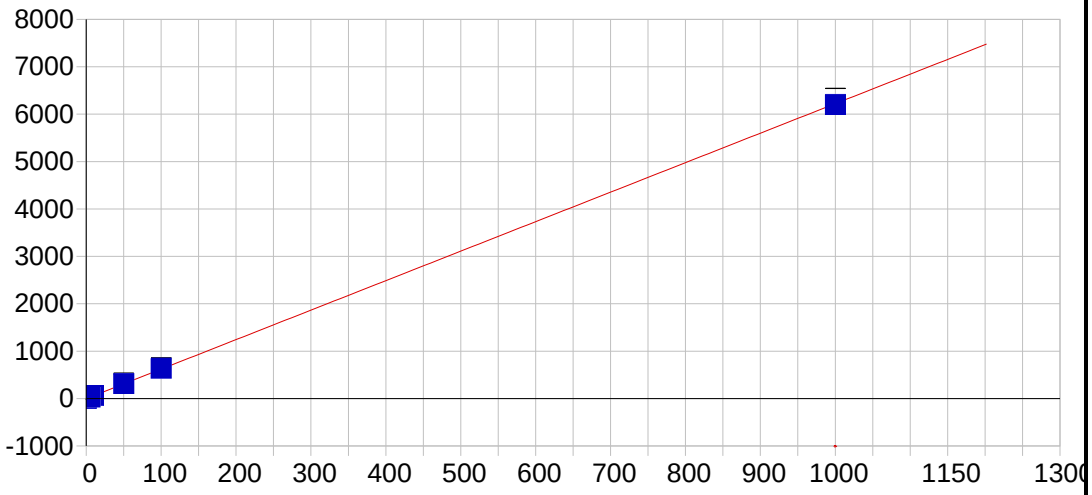


Cd 228.802 {447}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	2.925437	Re-Slope:	1.000000
A1 (Gain):	11.319860	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	1.280024		
Predicted MDL:	0.114259		
Predicted MQL:	0.380863		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00177	-.002	.000	2.9054	1.16	1
CalibStd=100	1000.0	998.03	-1.97	-.197	11301.	204.	1
CalibStd=100	100.00	101.97	1.97	1.97	1157.2	18.5	1

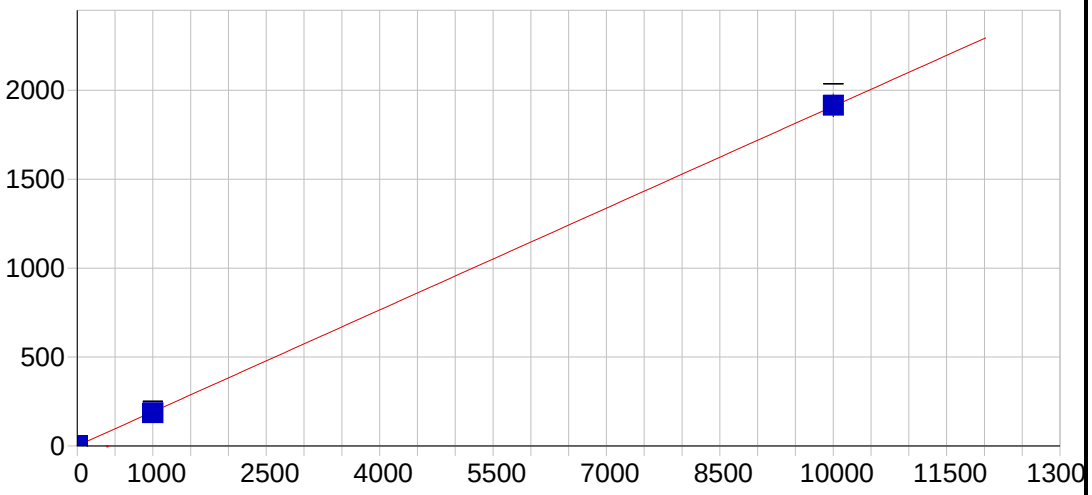


Co 228.616 {447}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-1.324873	Re-Slope:	1.000000
A1 (Gain):	6.223215	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.154366		
Predicted MDL:	0.186061		
Predicted MQL:	0.620202		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00044	.000	.000	-1.3276	.600	1
CalibStd=50	50.000	50.344	.344	.689	312.26	7.87	1
CalibStd=10	10.000	10.216	.216	2.16	62.311	2.23	1
CalibStd=5	5.0000	5.1885	.189	3.77	30.993	.651	1
CalibStd=100	100.00	102.41	2.41	2.41	636.55	12.2	1
CalibStd=100	1000.0	996.84	-3.16	-.316	6207.9	125.	1

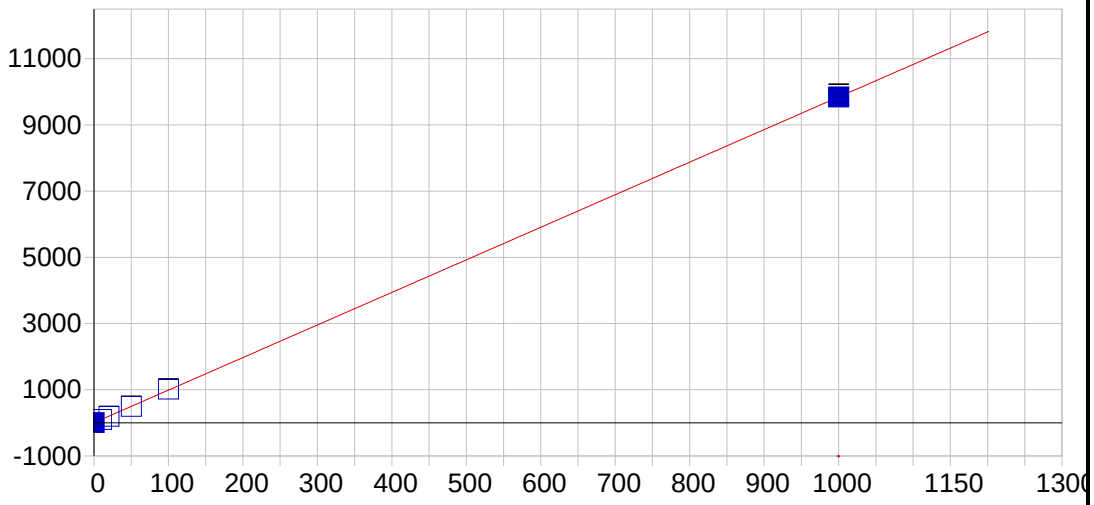


Co 238.892 {141}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.413093	Re-Slope:	1.000000
A1 (Gain):	0.190869	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.327162		
Predicted MDL:	6.723024		
Predicted MQL:	22.410081		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02686	.027	.000	1.4182	1.14	1
CalibStd=100	1000.0	970.16	-29.8	-2.98	186.62	7.63	1
CalibStd=100	10000.	10030.	29.8	.298	1916.1	64.5	1

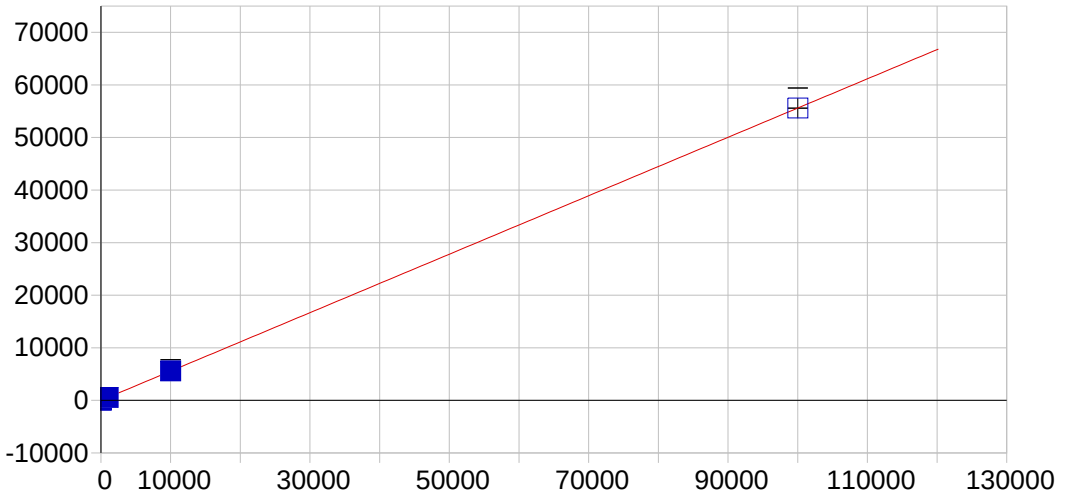


Cr 267.716 {126}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	5.146720	Re-Slope:	1.000000
A1 (Gain):	9.837728	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	14.988106		
Predicted MDL:	0.442403		
Predicted MQL:	1.474675		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.53389	-.534	.000	-.10558	4.73	1
CalibStd=10	10.000	9.1323	-.868	-8.68	94.988	2.33	1
CalibStd=50	50.000	49.847	-.153	-.307	495.52	2.15	1
CalibStd=100	1000.0	999.76	-.236	-.024	9840.5	83.2	1
CalibStd=20	20.000	19.084	-.916	-4.58	192.89	1.43	1
CalibStd=100	100.00	102.71	2.71	2.71	1015.6	5.06	1

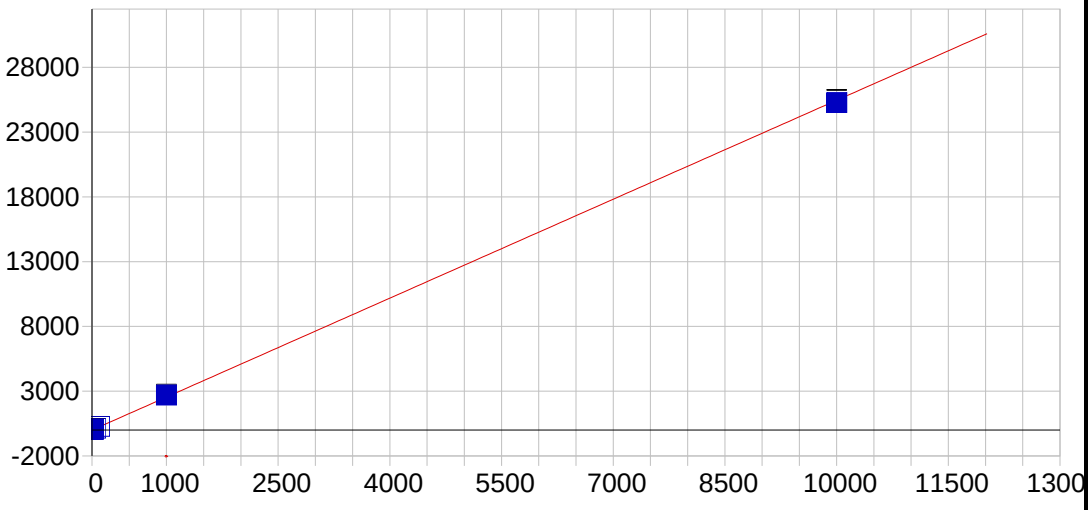


Cr 283.563 {119}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	5.178699	Re-Slope:	1.000000
A1 (Gain):	0.555955	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	17.701776		
Predicted MDL:	3.129199		
Predicted MQL:	10.430664		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-5.3872	-5.39	.000	2.1836	2.26	1
CalibStd=50	50.000	42.880	-7.12	-14.2	29.018	.806	1
CalibStd=100	100.00	96.242	-3.76	-3.76	58.685	1.92	1
CalibStd=100	1000.0	967.59	-32.4	-3.24	543.65	22.1	1
CalibStd=100	10000.	10054.	53.7	.537	5599.9	182.	1
CalibStd-100	100000.	99995.	-5.05	-.005	55598.	1920.	1

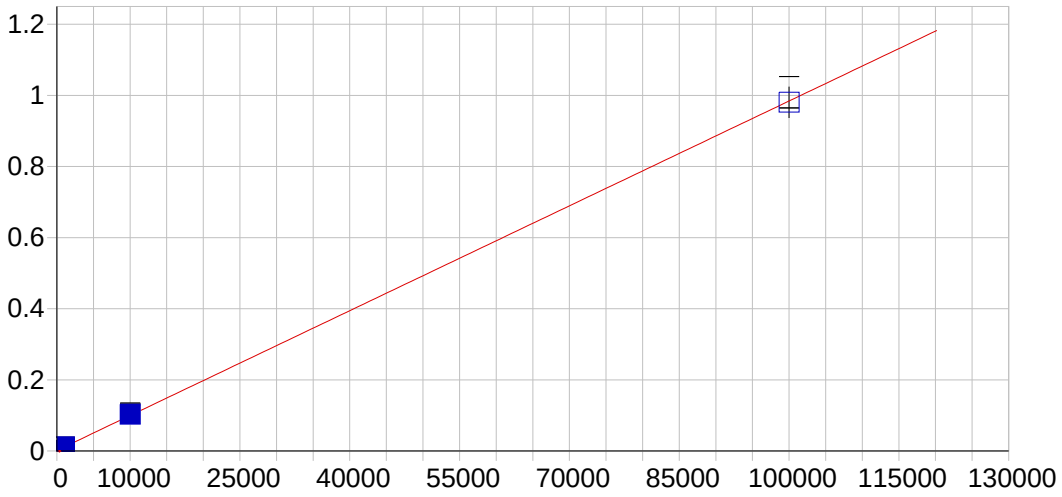


Cu 224.700 {450}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.515483	Re-Slope:	1.000000
A1 (Gain):	2.545805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999774	Status:	OK.
Std Error of Est:	0.466897		
Predicted MDL:	0.456491		
Predicted MQL:	1.521638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00279	-.003	.000	-.52259	.847	1
CalibStd=100	1000.0	1057.0	57.0	5.70	2691.0	57.3	1
CalibStd=50	50.000	53.234	3.23	6.47	135.01	3.22	1
CalibStd=100	100.00	108.34	8.34	8.34	275.29	5.05	1
CalibStd=10	10.000	10.974	.974	9.74	27.422	1.59	1
CalibStd=100	10000.	9928.1	-71.9	-.719	25280.	207.	1
CalibStd=5	5.0000	5.9632	.963	19.3	14.666	1.23	1
CalibStd=20	20.000	21.414	1.41	7.07	53.999	1.55	1

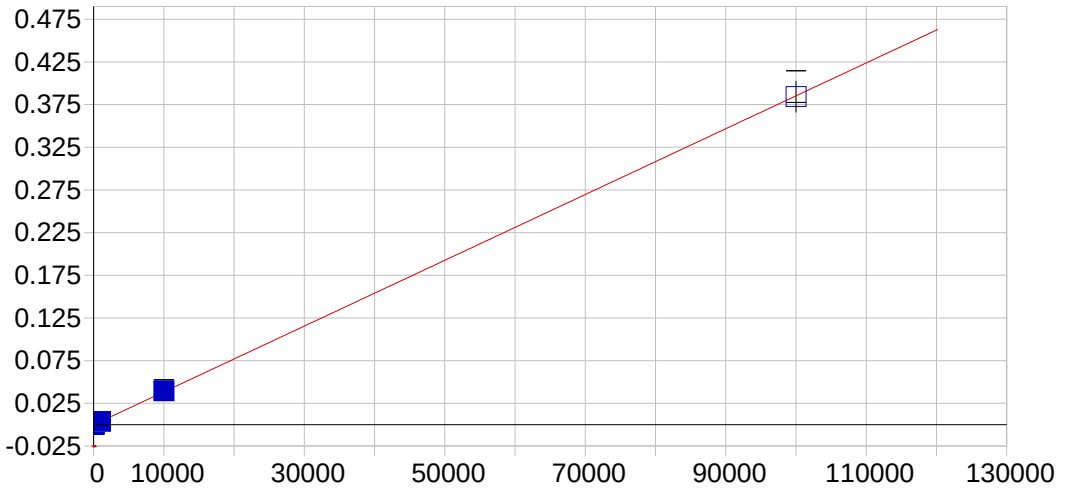


Cu 324.754 {104}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001352	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	3.389361		
Predicted MQL:	11.297870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00727	-.007	.000	.00135	.000	1
CalibStd=100	1000.0	995.17	-4.83	-.483	.01113	.001	1
CalibStd=100	100.00	104.58	4.58	4.58	.00238	.000	1
CalibStd=100	10000.	10353.	353.	3.53	.10308	.003	1
CalibStd-100	100000.	99647.	-353.	-.353	.98067	.044	1

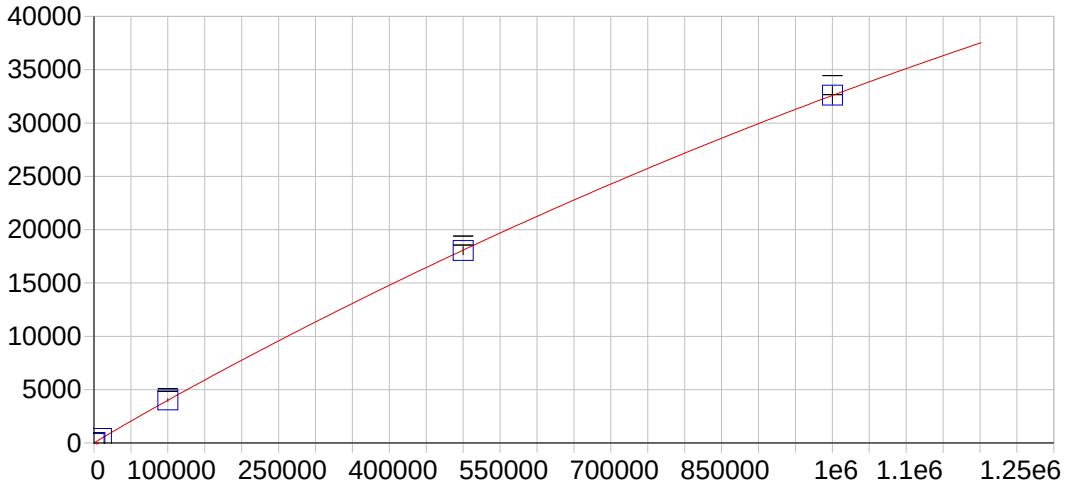


Cu 327.396 {103}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000184	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	10.337522		
Predicted MQL:	34.458407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00652	-.007	.000	-.00018	.000	1
CalibStd=20	20.000	21.931	1.93	9.65	-.00010	.000	1
CalibStd=50	50.000	58.110	8.11	16.2	.00004	.000	1
CalibStd=100	100.00	106.24	6.24	6.24	.00023	.000	1
CalibStd=100	1000.0	980.70	-19.3	-1.93	.00360	.000	1
CalibStd=100	10000.	10271.	271.	2.71	.03940	.001	1
CalibStd-100	100000.	99732.	-268.	-.268	.38421	.019	1

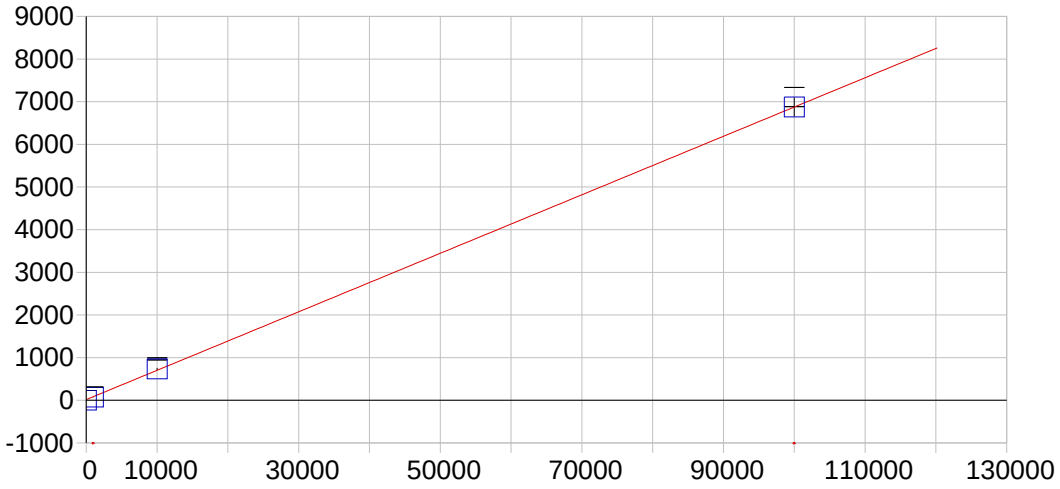


Fe 234.349 {144}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	1.519907	Re-Slope:	1.000000
A1 (Gain):	0.051205	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.980000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.244763		
Predicted MDL:	13.740520		
Predicted MQL:	45.801733		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04419	.044	.000	1.5223	.660	1
CalibStd=100	10000.	10059.	58.9	.589	429.12	13.4	1
CalibStd=500	500000.	498550.	-1450.	-.289	18039.	418.	1
CalibStd-100	1000000.	1000800.	821.	.082	32608.	894.	1
CalibStd=100	1000.0	935.12	-64.9	-6.49	43.273	3.47	1
CalibStd-100	100000.	100660.	663.	.663	4025.8	133.	1

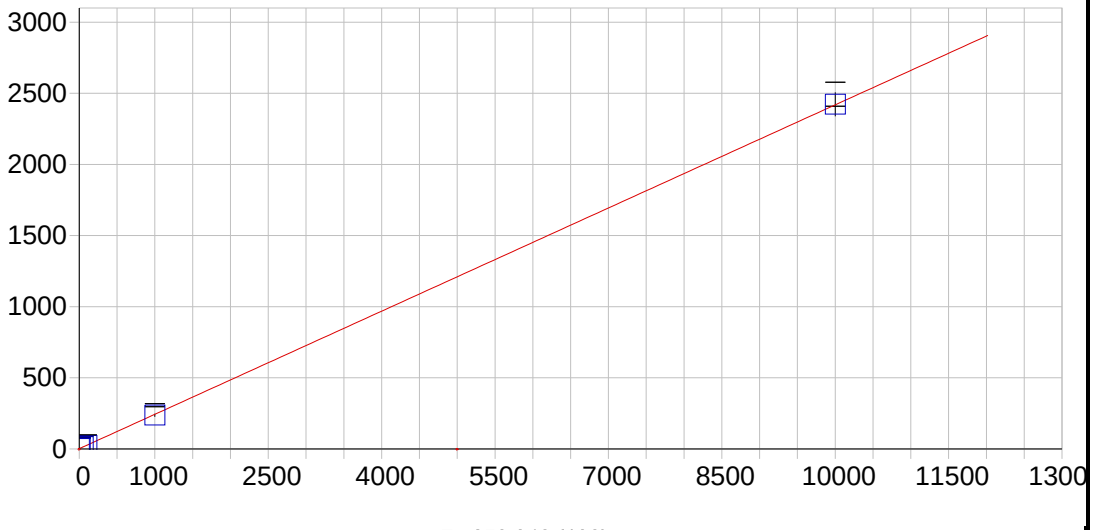


Fe 239.562 {141}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	16.733793	Re-Slope:	1.000000
A1 (Gain):	0.068593	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	27.088589		
Predicted MDL:	10.764740		
Predicted MQL:	35.882467		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-233.81	-234.	.000	.69613	.814	1
CalibStd=100	1000.0	810.44	-190.	-19.0	72.324	3.25	1
CalibStd=100	10000.	10468.	468.	4.68	734.78	25.5	1
CalibStd-100	100000.	99955.	-44.9	-.045	6872.9	224.	1

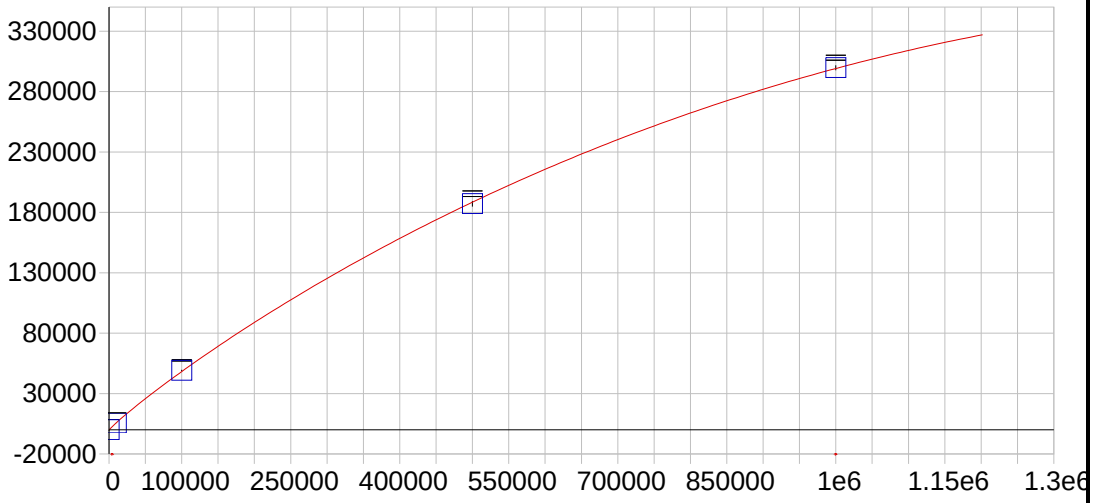


Fe 259.940 {130}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.830093	Re-Slope:	1.000000
A1 (Gain):	0.241735	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.056760		
Predicted MDL:	5.386320		
Predicted MQL:	17.954400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00454	-.005	.000	1.8290	.975	1
CalibStd=100	1000.0	972.11	-27.9	-2.79	236.82	11.1	1
CalibStd=50	50.000	55.814	5.81	11.6	15.322	1.03	1
CalibStd=100	100.00	104.29	4.29	4.29	27.041	1.56	1
CalibStd=20	20.000	21.879	1.88	9.40	7.1190	.268	1
CalibStd=100	10000.	10016.	15.9	.159	2423.0	84.5	1

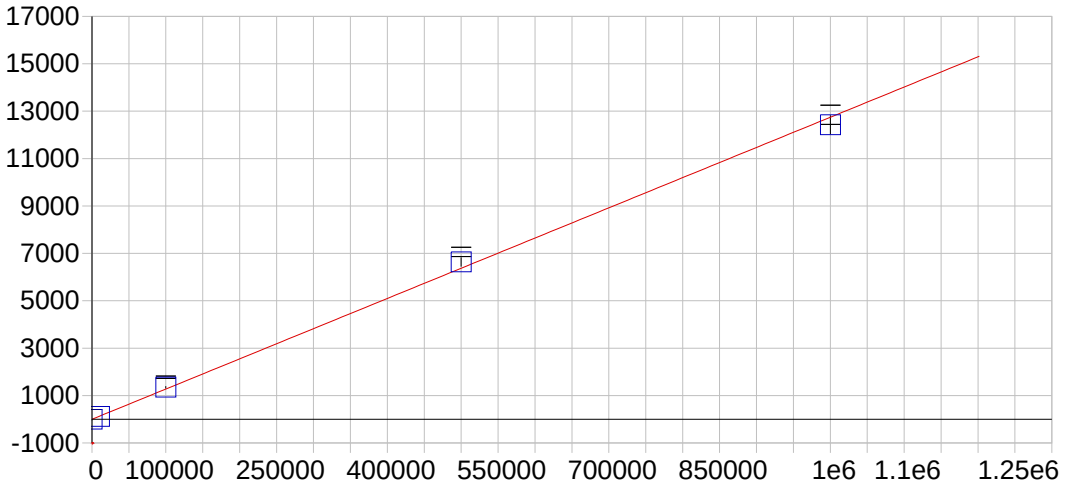


Mg 202.582 {466}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-5.647141	Re-Slope:	1.000000
A1 (Gain):	1.118601	Y-int:	0.000000
A2 (Curvature):	-0.000001		
n (Exponent):	0.930000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	30.116361		
Predicted MDL:	0.784853		
Predicted MQL:	2.616176		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.12344	.123	.000	-5.4873	.324	1
CalibStd=500	500000.	495400.	-4600.	-.921	187140.	2340.	1
CalibStd=100	10000.	9569.3	-431.	-4.31	5607.2	57.1	1
CalibStd-100	1000000.	1003700.	3750.	.375	299750.	2090.	1
CalibStd-100	100000.	102180.	2180.	2.18	49161.	478.	1

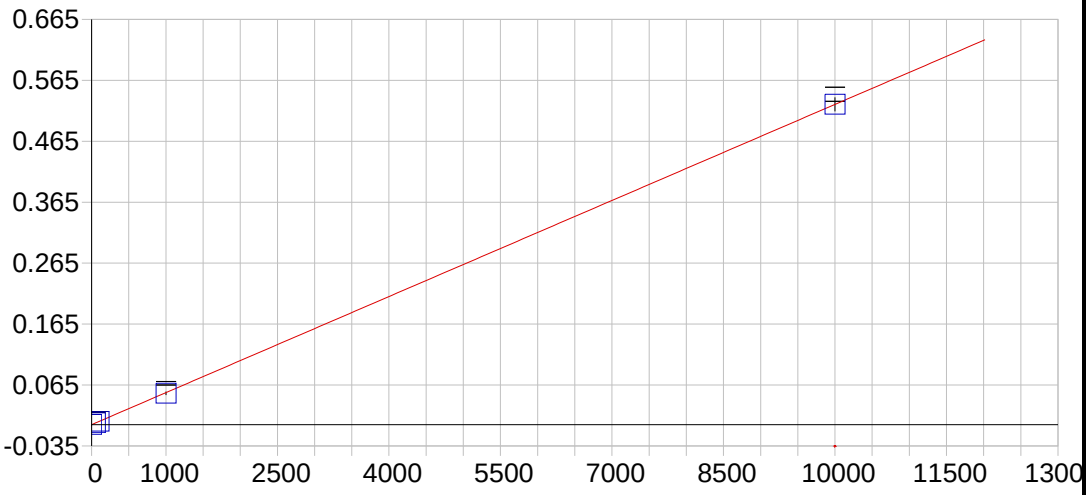


Mg 279.079 {121}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.369126	Re-Slope:	1.000000
A1 (Gain):	0.012745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999406	Status:	OK.
Std Error of Est:	2.275885		
Predicted MDL:	64.036801		
Predicted MQL:	213.456005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.21730	.217	.000	-.36636	.920	1
CalibStd=500	500000.	520690.	20700.	4.14	6635.6	196.	1
CalibStd=100	10000.	9054.6	-945.	-9.45	115.03	3.75	1
CalibStd-100	1000000.	974570.	-25400.	-2.54	12420.	406.	1
CalibStd-100	100000.	105690.	5690.	5.69	1346.6	51.0	1

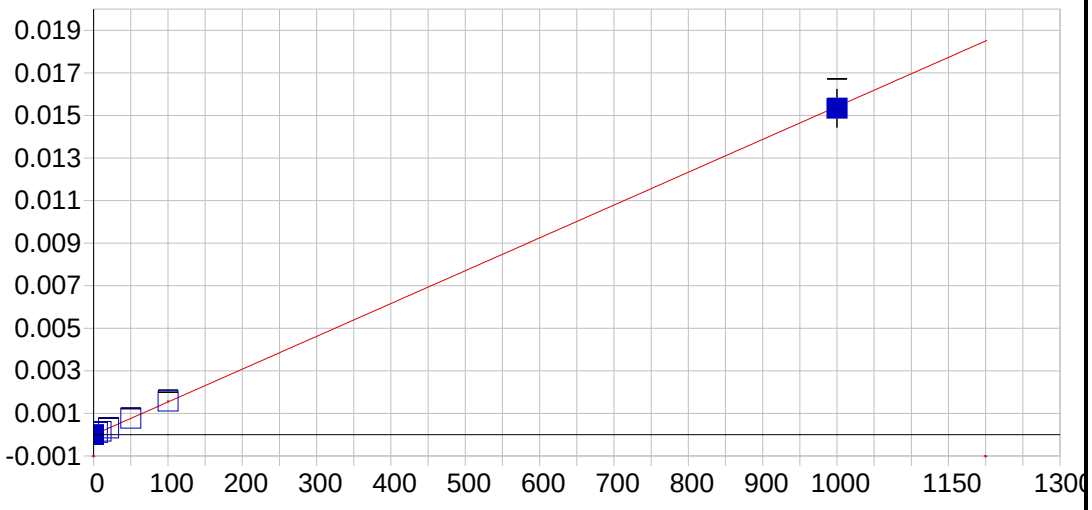


Mg 280.270 {120}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000069	Re-Slope:	1.000000
A1 (Gain):	0.000053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000642		
Predicted MDL:	0.209470		
Predicted MQL:	0.698233		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	5.2899	5.29	.000	.00021	.000	1
CalibStd=100	1000.0	981.33	-18.7	-1.87	.05151	.003	1
CalibStd=100	10000.	10002.	1.78	.018	.52560	.012	1
CalibStd=100	100.00	106.45	6.45	6.45	.00553	.000	1
CalibStd=50	50.000	55.151	5.15	10.3	.00283	.000	1

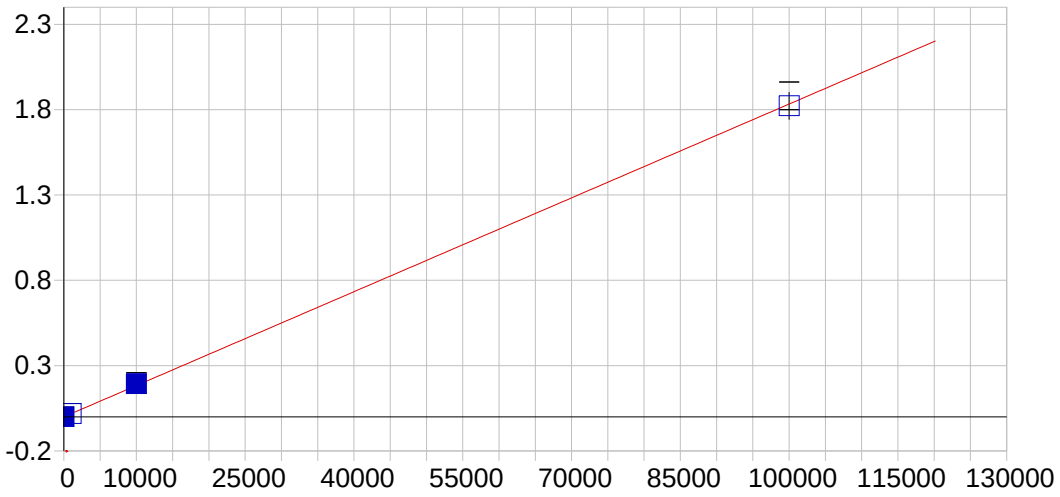


Mn 257.610 {131}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999725	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.766790		
Predicted MQL:	2.555965		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00218	-.002	.000	-.00001	.000	1
CalibStd=10	10.000	10.767	.767	7.67	.00016	.000	1
CalibStd=50	50.000	50.001	.001	.003	.00076	.000	1
CalibStd=20	20.000	20.500	.500	2.50	.00031	.000	1
CalibStd=100	100.00	102.21	2.21	2.21	.00157	.000	1
CalibStd=5	5.0000	6.5896	1.59	31.8	.00009	.000	1
CalibStd=100	1000.0	994.93	-5.07	-.507	.01534	.001	1

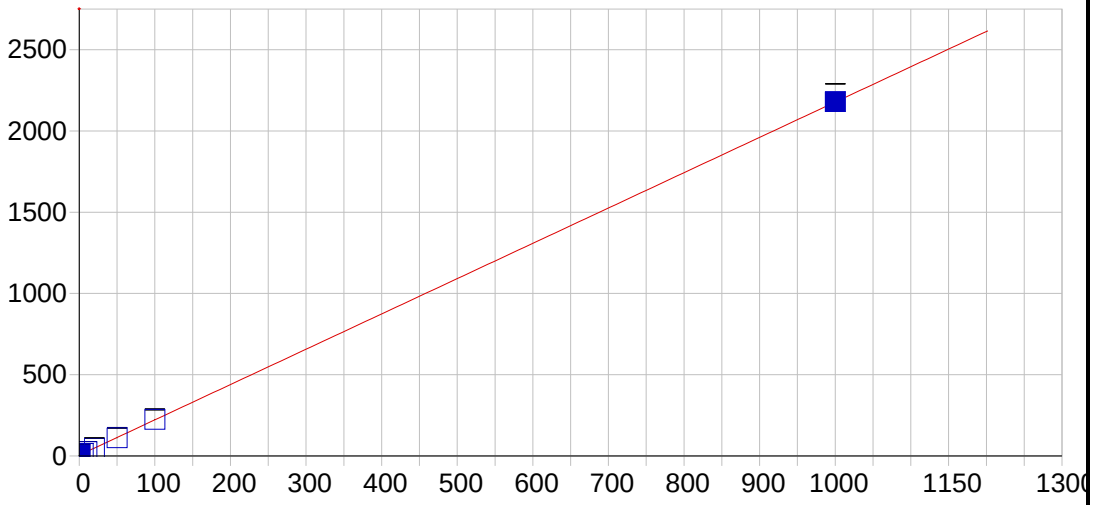


Mn 259.373 {130}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000156		
Predicted MDL:	0.991882		
Predicted MQL:	3.306274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.07289	-.073	.000	.00000	.000	1
CalibStd=100	10000.	10569.	569.	5.69	.19398	.005	1
CalibStd-100	100000.	99408.	-592.	-.592	1.8221	.081	1
CalibStd=100	1000.0	1021.9	21.9	2.19	.01873	.001	1

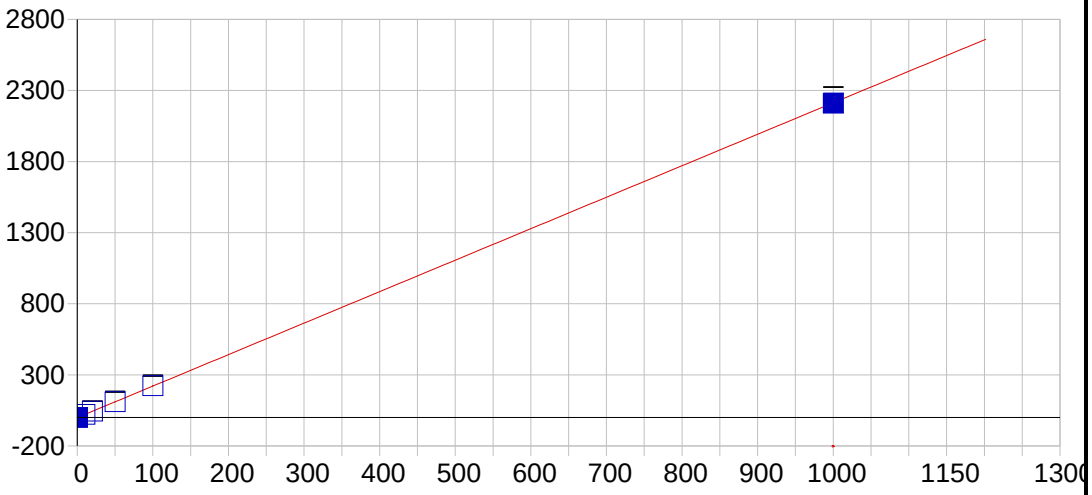


Mo 203.844 {465}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	4.827034	Re-Slope:	1.000000
A1 (Gain):	2.172893	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.023265		
Predicted MDL:	0.437095		
Predicted MQL:	1.456984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00026	.000	.000	4.8276	.271	1
CalibStd=50	50.000	48.859	-1.14	-2.28	110.99	2.10	1
CalibStd=1	1.0000	.83912	-.161	-16.1	6.6503	.192	1
CalibStd=20	20.000	19.807	-.193	-.967	47.865	.964	1
CalibStd=10	10.000	9.7227	-.277	-2.77	25.953	.575	1
CalibStd=100	100.00	101.08	1.08	1.08	224.47	3.27	1
CalibStd=5	5.0000	4.7560	-.244	-4.88	15.161	.650	1
CalibStd=100	1000.0	1000.9	.932	.093	2179.7	48.1	1

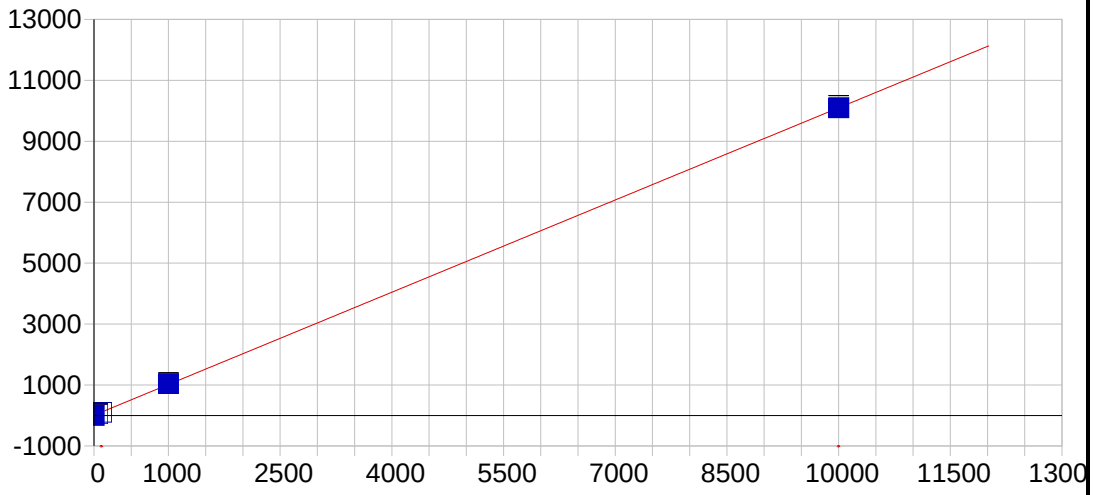


Mo 202.030 {467}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.378706	Re-Slope:	1.000000
A1 (Gain):	2.213894	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.033423		
Predicted MDL:	0.286958		
Predicted MQL:	0.956527		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00026	.000	.000	-.37928	.567	1
CalibStd=50	50.000	50.013	.013	.026	110.34	3.14	1
CalibStd=20	20.000	20.004	.004	.018	43.907	.526	1
CalibStd=10	10.000	10.164	.164	1.64	22.124	.260	1
CalibStd=100	100.00	101.05	1.05	1.05	223.33	3.83	1
CalibStd=100	1000.0	998.77	-1.23	-.123	2210.8	42.6	1

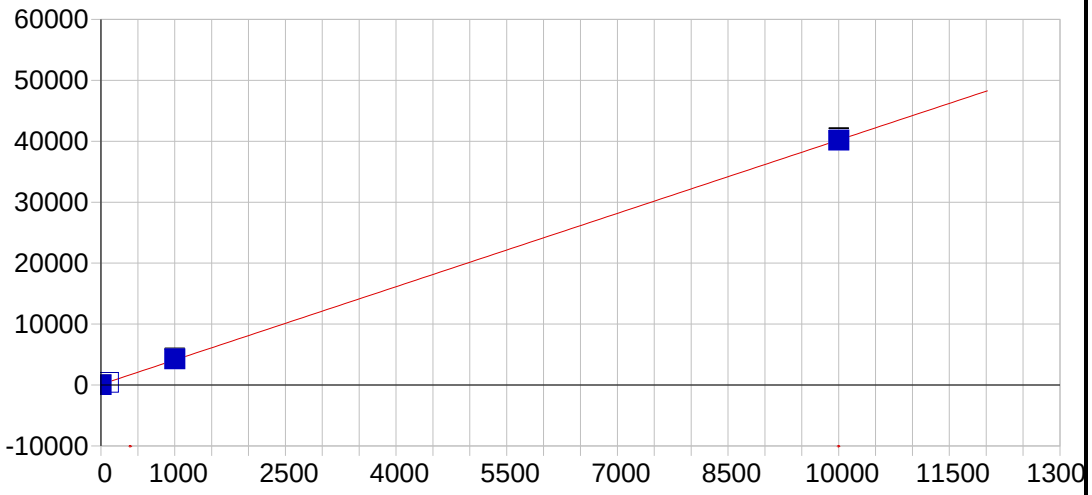


Mo 204.598 {465}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	8.662015	Re-Slope:	1.000000
A1 (Gain):	1.008987	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	15.844519		
Predicted MDL:	0.693076		
Predicted MQL:	2.310255		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-8.8129	-8.81	.000	-.23005	.635	1
CalibStd=100	1000.0	1023.9	23.9	2.39	1041.8	19.7	1
CalibStd=100	10000.	9997.7	-2.30	-.023	10096.	73.9	1
CalibStd=50	50.000	42.338	-7.66	-15.3	51.381	1.11	1
CalibStd=100	100.00	94.865	-5.13	-5.13	104.38	.997	1

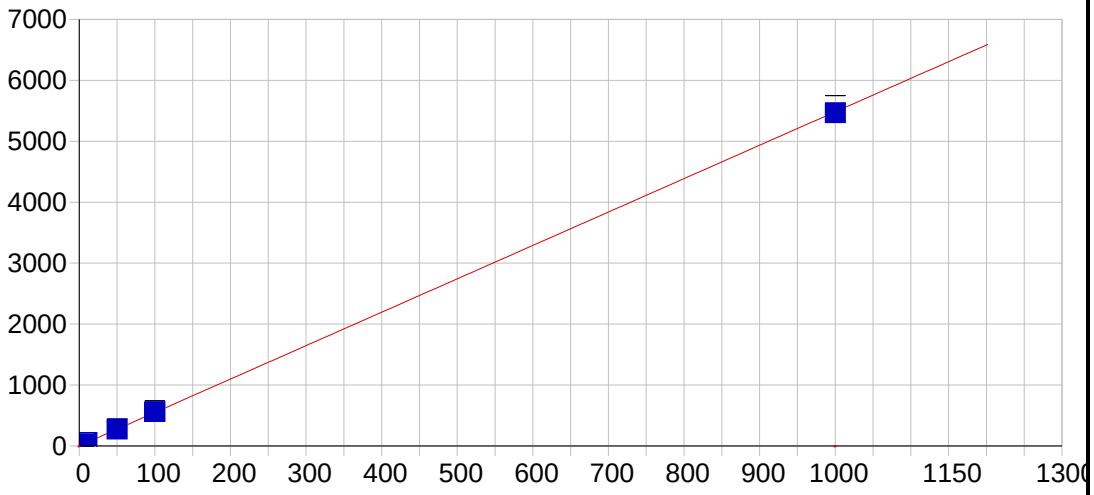


Ni 221.647 {452}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	91.638366	Re-Slope:	1.000000
A1 (Gain):	4.010871	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	143.062339		
Predicted MDL:	0.346482		
Predicted MQL:	1.154940		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-23.679	-23.7	.000	-3.3365	.777	1
CalibStd=100	10000.	9995.9	-4.06	-.041	40178.	316.	1
CalibStd=100	100.00	85.738	-14.3	-14.3	435.52	8.42	1
CalibStd=100	1000.0	1042.0	42.0	4.20	4270.4	87.9	1

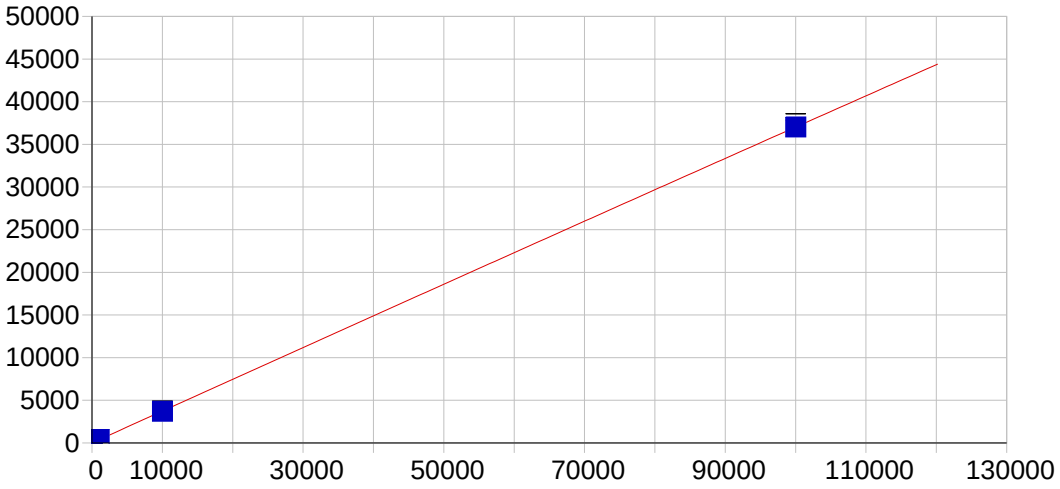


Ni 231.604 {445}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.352053	Re-Slope:	1.000000
A1 (Gain):	5.482027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.150536		
Predicted MDL:	0.325979		
Predicted MQL:	1.086598		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00056	-.001	.000	1.3490	1.12	1
CalibStd=50	50.000	50.014	.014	.028	275.51	6.20	1
CalibStd=10	10.000	10.084	.084	.841	56.628	2.63	1
CalibStd=100	100.00	102.40	2.40	2.40	562.66	10.2	1
CalibStd=5	5.0000	5.4119	.412	8.24	31.018	.690	1
CalibStd=100	1000.0	997.09	-2.91	-.291	5467.0	117.	1

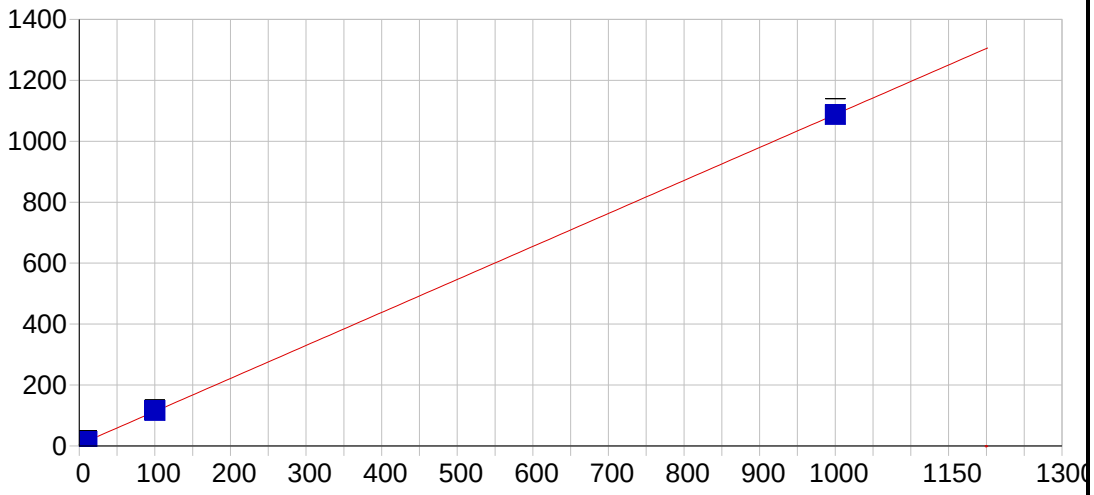


Pb 216.999 {455}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	1.152382	Re-Slope:	1.000000
A1 (Gain):	0.373917	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.580829		
Predicted MDL:	2.834633		
Predicted MQL:	9.448776		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01868	-.019	.000	1.1454	.498	1
CalibStd=100	1000.0	1085.3	85.3	8.53	407.65	6.92	1
CalibStd=100	10000.	9893.6	-106.	-1.06	3704.2	29.2	1
CalibStd-100	100000.	100010.	9.95	.010	37027.	382.	1
CalibStd=100	100.00	111.21	11.2	11.2	42.734	1.37	1

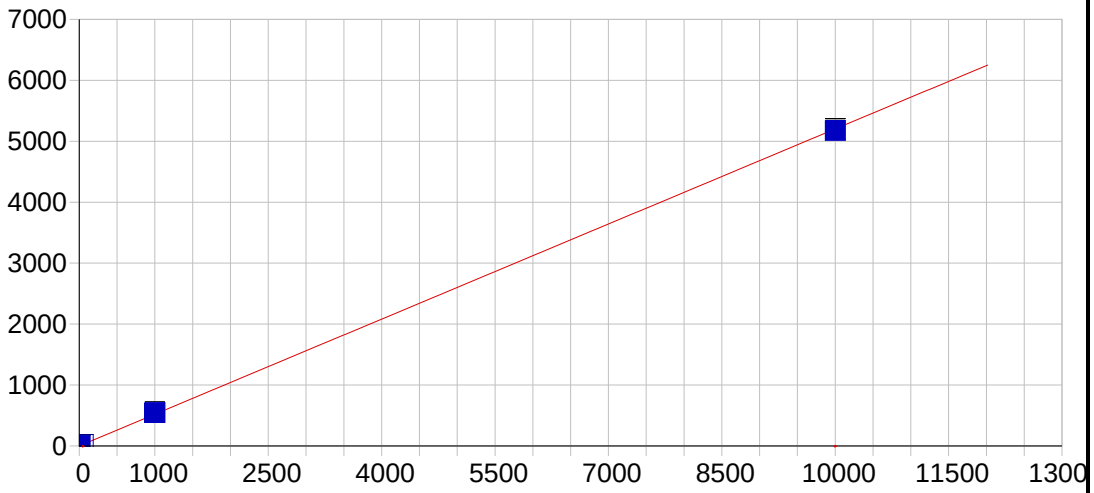


Pb 220.353 {453}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	4.925136	Re-Slope:	1.000000
A1 (Gain):	1.083040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	1.904961		
Predicted MDL:	1.023945		
Predicted MQL:	3.413149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.69846	-.698	.000	4.1687	.597	1
CalibStd=10	10.000	9.3669	-.633	-6.33	15.070	1.82	1
CalibStd=100	100.00	102.67	2.67	2.67	116.12	1.44	1
CalibStd=5	5.0000	3.9137	-1.09	-21.7	9.1638	.227	1
CalibStd=100	1000.0	999.74	-.256	-.026	1087.7	19.1	1

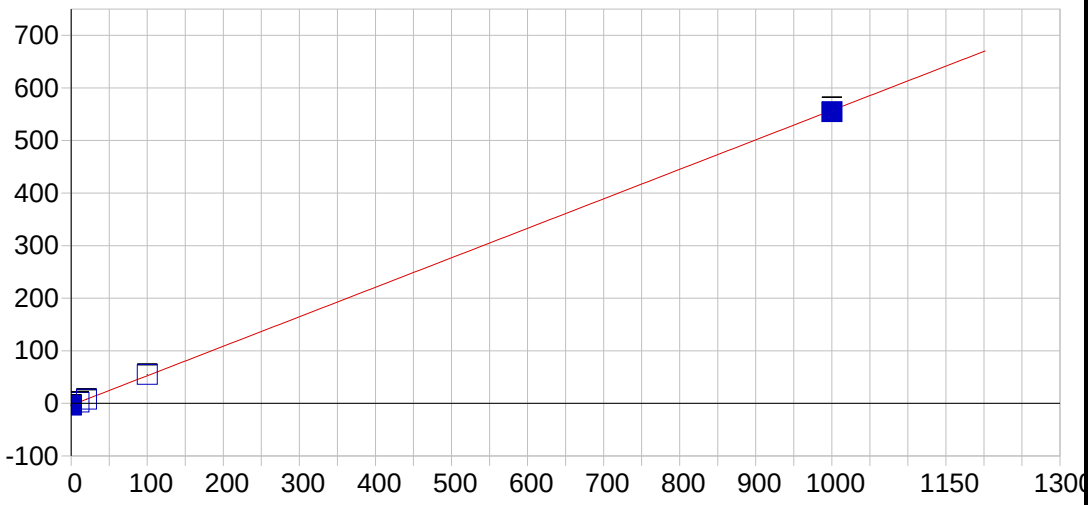


Sb 206.833 {463}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.073638	Re-Slope:	1.000000
A1 (Gain):	0.520114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.110307		
Predicted MDL:	1.551156		
Predicted MQL:	5.170519		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00187	-.002	.000	1.0727	.715	1
CalibStd=100	1000.0	1046.9	46.9	4.69	545.60	9.53	1
CalibStd=10	10.000	10.873	.873	8.73	6.7288	.371	1
CalibStd=50	50.000	52.904	2.90	5.81	28.590	.607	1
CalibStd=100	10000.	9949.3	-50.7	-.507	5176.1	30.3	1

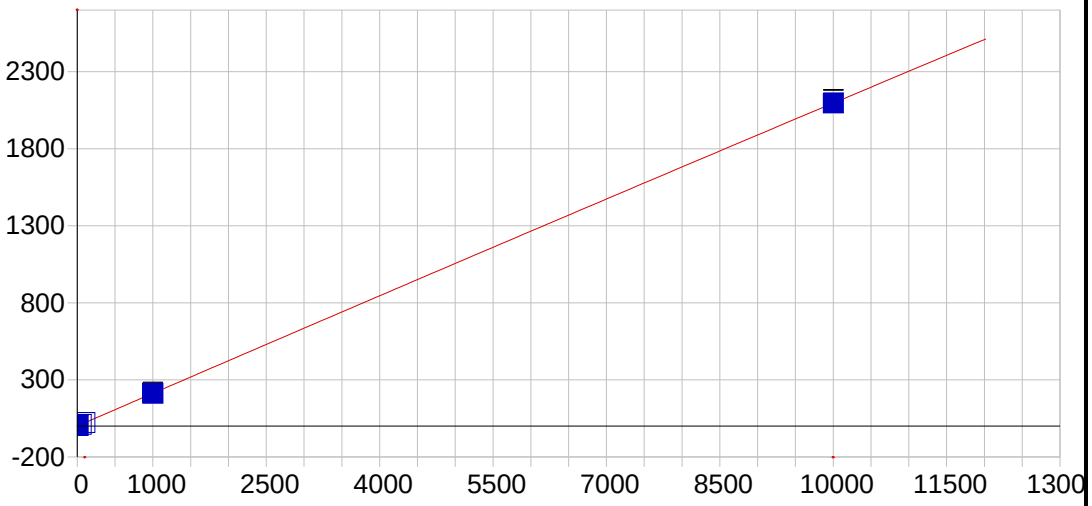


Sb 217.581 {455}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-3.507950	Re-Slope:	1.000000
A1 (Gain):	0.560819	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999905	Status:	OK.
Std Error of Est:	0.033571		
Predicted MDL:	2.110348		
Predicted MQL:	7.034492		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00077	-.001	.000	-3.5084	1.26	1
CalibStd=100	1000.0	995.35	-4.65	-.465	554.66	8.48	1
CalibStd=20	20.000	20.043	.043	.213	7.7324	.806	1
CalibStd=10	10.000	10.371	.371	3.71	2.3083	.872	1
CalibStd=100	100.00	104.24	4.24	4.24	54.952	.764	1

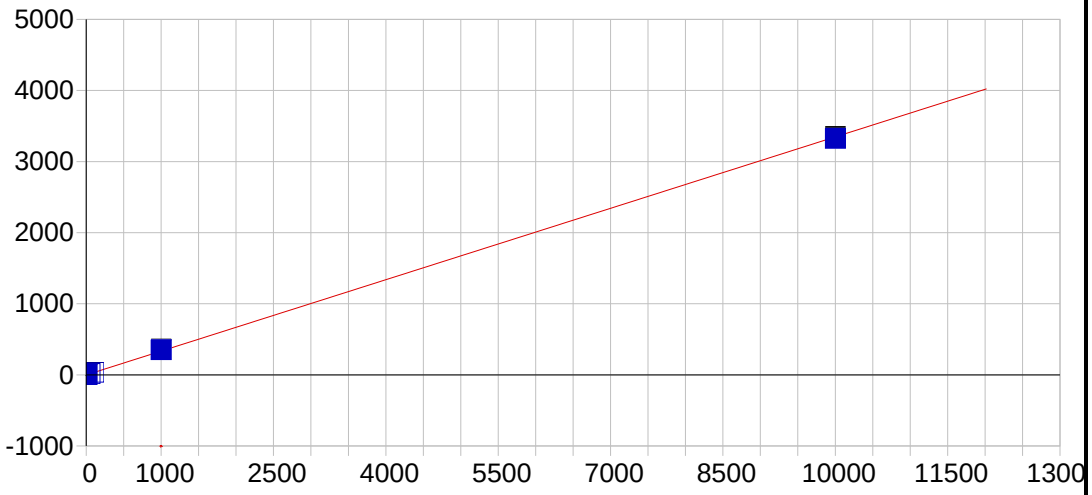


Se 196.090 {172}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.741710	Re-Slope:	1.000000
A1 (Gain):	0.212461	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.030639		
Predicted MDL:	6.338110		
Predicted MQL:	21.127035		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00307	-.003	.000	.74106	1.59	1
CalibStd=50	50.000	49.624	-.376	-.753	11.284	1.36	1
CalibStd=100	1000.0	997.19	-2.81	-.281	212.27	6.02	1
CalibStd=10	10.000	13.207	3.21	32.1	3.5477	1.24	1
CalibStd=100	100.00	99.692	-.308	-.308	21.920	.880	1
CalibStd=100	10000.	10000.	.290	.003	2096.0	20.7	1

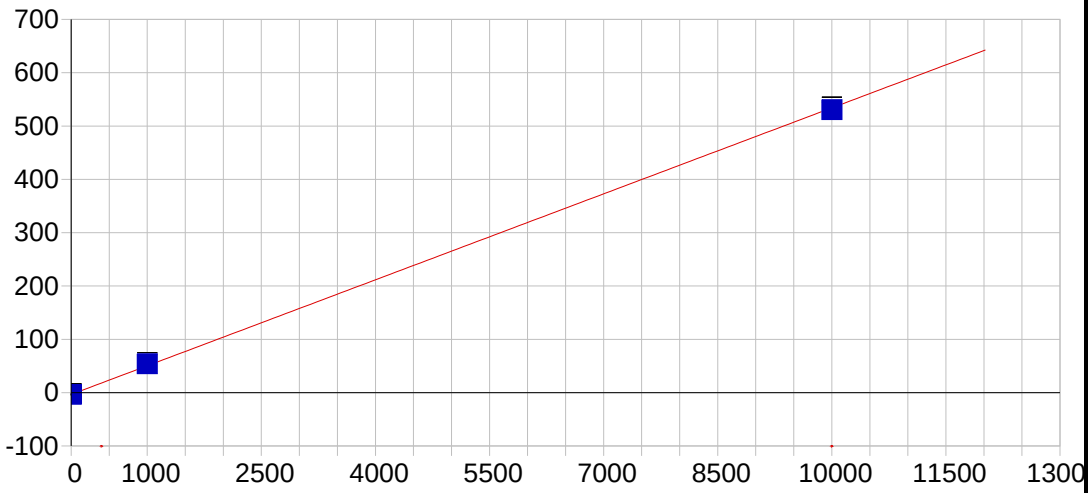


Se 196.090 {472}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011856	Re-Slope:	1.000000
A1 (Gain):	0.334657	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.079286		
Predicted MDL:	2.232727		
Predicted MQL:	7.442424		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00222	-.002	.000	.01111	.105	1
CalibStd=50	50.000	52.331	2.33	4.66	17.525	.533	1
CalibStd=100	1000.0	1051.9	51.9	5.19	351.98	5.64	1
CalibStd=10	10.000	10.576	.576	5.76	3.5513	.263	1
CalibStd=100	100.00	107.23	7.23	7.23	35.898	.913	1
CalibStd=100	10000.	9937.9	-62.1	-.621	3325.1	19.5	1

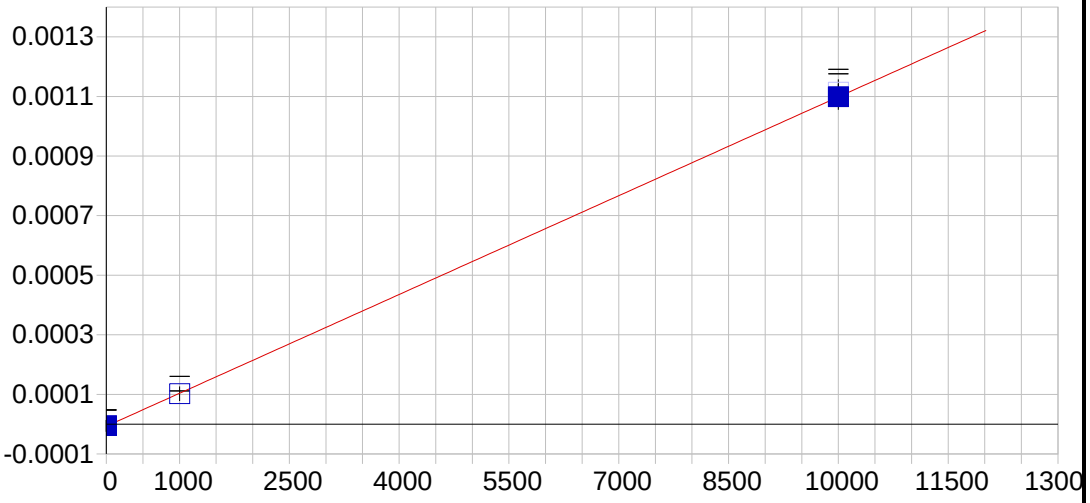


Se 206.279 {463}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-3.393970	Re-Slope:	1.000000
A1 (Gain):	0.053746	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999768	Status:	OK.
Std Error of Est:	0.210168		
Predicted MDL:	21.502959		
Predicted MQL:	71.676529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.06128	-.061	.000	-3.3973	1.81	1
CalibStd=100	1000.0	1068.1	68.1	6.81	54.043	1.68	1
CalibStd=100	10000.	9931.9	-68.1	-.681	530.73	4.60	1

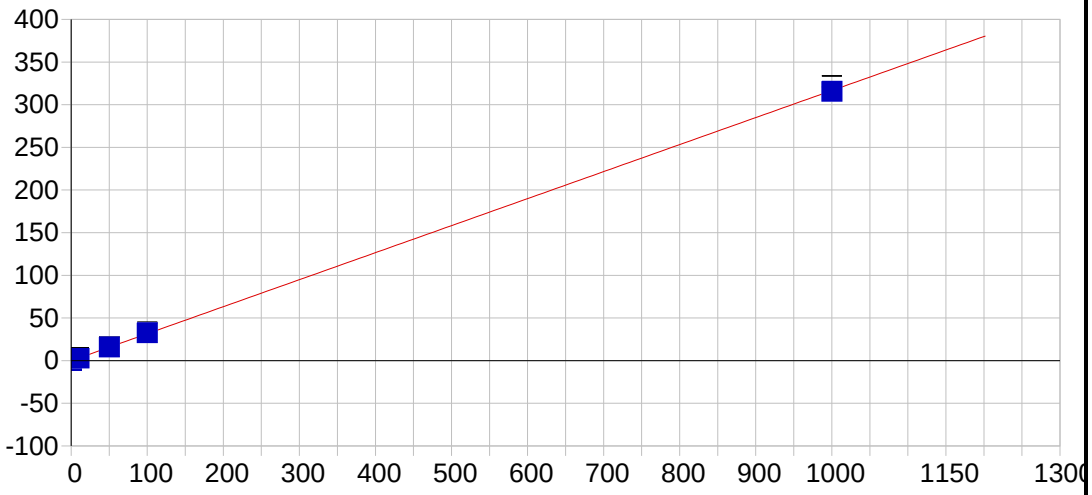


Tl 276.787 {122}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	186.988910		
Predicted MQL:	623.296368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	11.843	11.8	.000	-.00001	.000	1
CalibStd=100	1000.0	986.86	-13.1	-1.31	.00010	.000	1
CalibStd=100	10000.	10001.	1.30	.013	.00111	.000	1

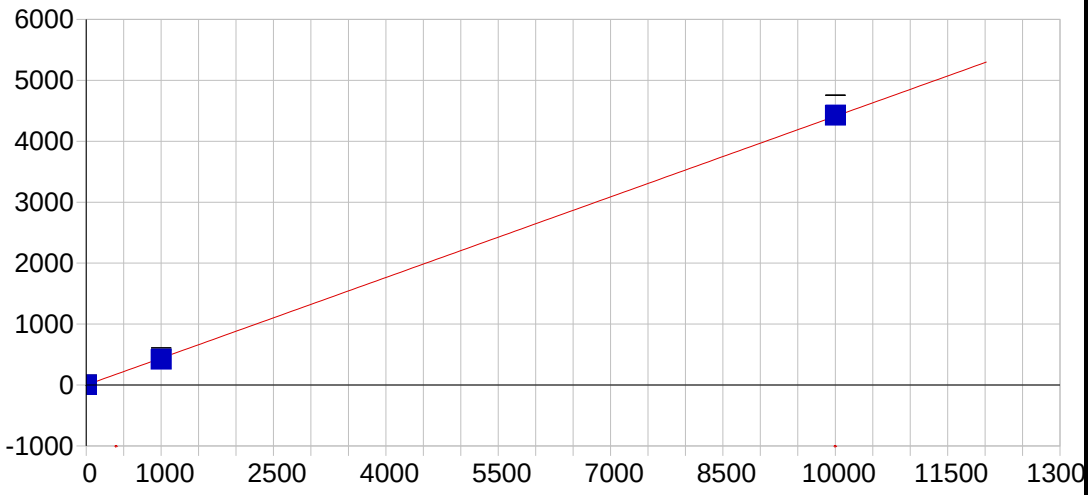


Tl 190.856 {477}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.107189	Re-Slope:	1.000000
A1 (Gain):	0.316695	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.015593		
Predicted MDL:	1.682774		
Predicted MQL:	5.609247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00007	.000	.000	-.10717	.125	1
CalibStd=50	50.000	50.471	.471	.941	15.877	.129	1
CalibStd=100	1000.0	996.68	-3.32	-.332	315.52	6.46	1
CalibStd=100	100.00	103.31	3.31	3.31	32.609	.513	1
CalibStd=10	10.000	9.5421	-.458	-4.58	2.9148	.489	1

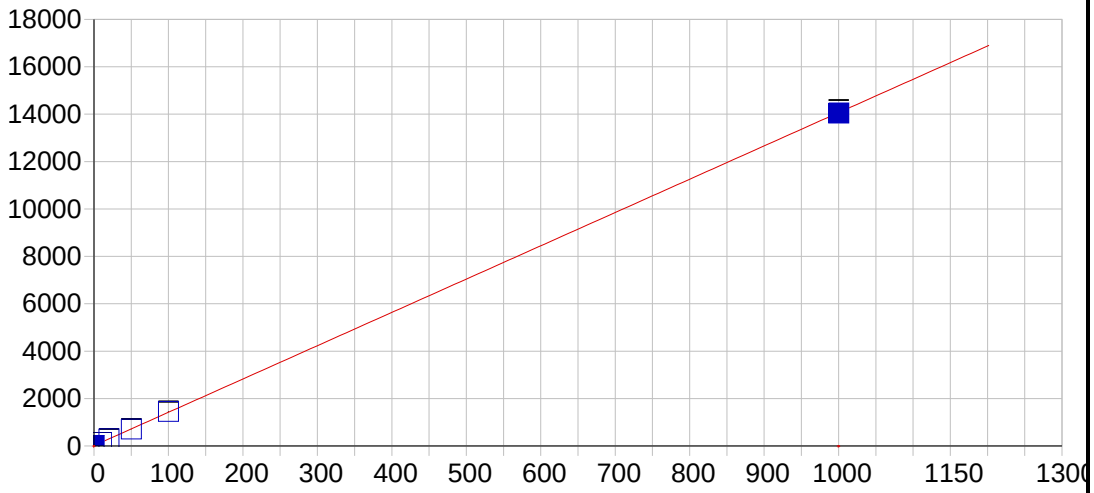


V 290.882 {116}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.183667	Re-Slope:	1.000000
A1 (Gain):	0.440991	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.997593		
Predicted MDL:	5.887715		
Predicted MQL:	19.625716		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03545	.035	.000	.19930	1.10	1
CalibStd=100	1000.0	960.61	-39.4	-3.94	423.79	18.2	1
CalibStd=100	10000.	10039.	39.4	.394	4427.3	163.	1

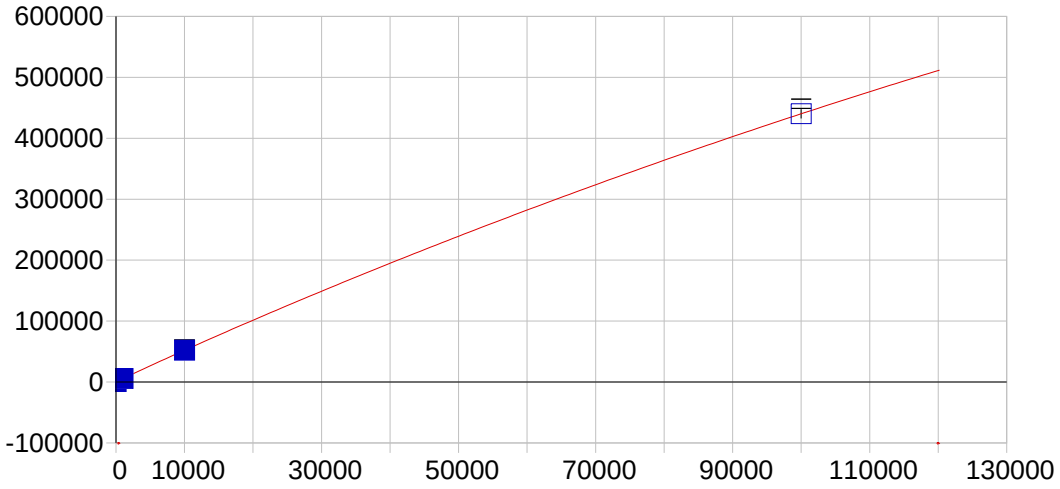


V 292.402 {115}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	15.282184	Re-Slope:	1.000000
A1 (Gain):	14.051379	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.396268		
Predicted MDL:	0.503056		
Predicted MQL:	1.676854		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00010	.000	.000	15.281	4.22	1
CalibStd=50	50.000	49.565	-.435	-.869	711.74	9.17	1
CalibStd=100	1000.0	998.38	-1.62	-.162	14044.	126.	1
CalibStd=20	20.000	19.871	-.129	-.643	294.50	2.52	1
CalibStd=10	10.000	10.050	.050	.500	156.50	1.75	1
CalibStd=100	100.00	102.14	2.14	2.14	1450.4	17.5	1

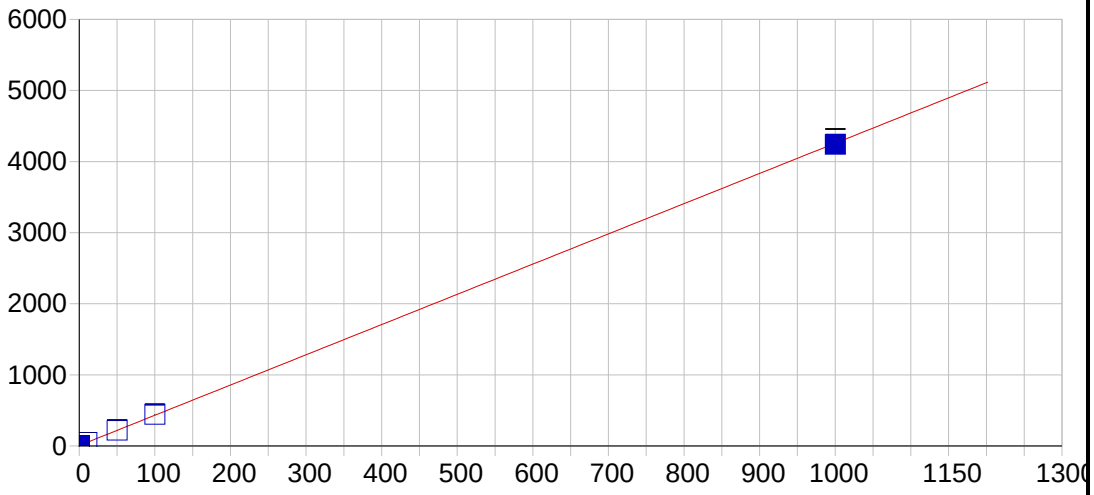


Zn 206.200 {463}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-11.726936	Re-Slope:	1.000000
A1 (Gain):	6.351558	Y-int:	0.000000
A2 (Curvature):	-0.000010		
n (Exponent):	0.980000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.140962		
Predicted MQL:	0.469875		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10000.	.341	.003	52117.	369.	1
Blank	.00000	2.1014	2.10	.000	1.4237	.421	1
CalibStd=100	1000.0	997.25	-2.75	-.275	5497.9	126.	1
CalibStd-100	100000.	100000.	-.005	.000	440170.	7660.	1

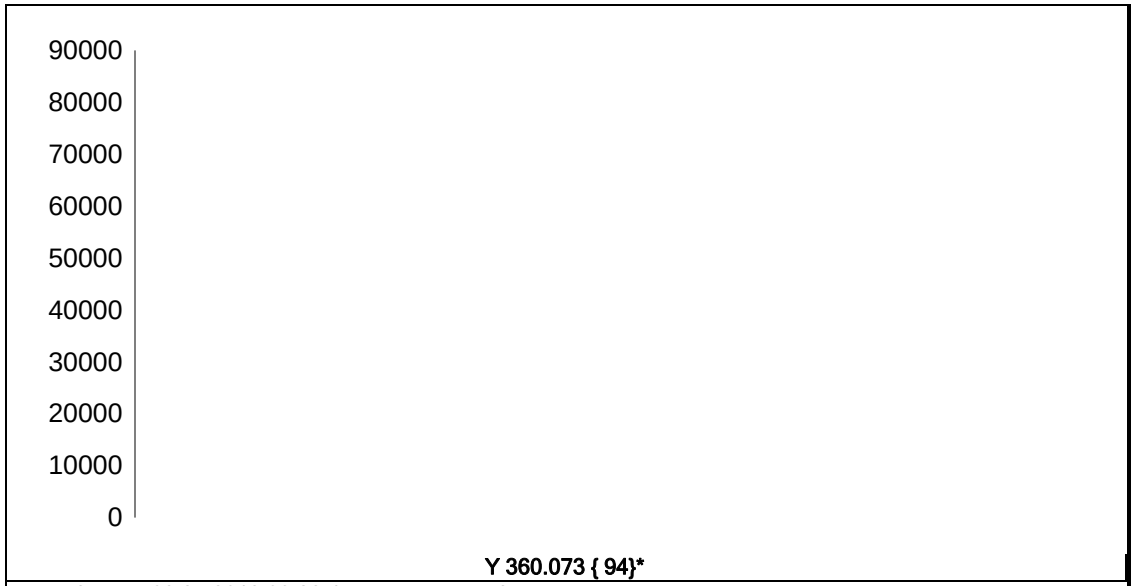


Zn 213.856 {458}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

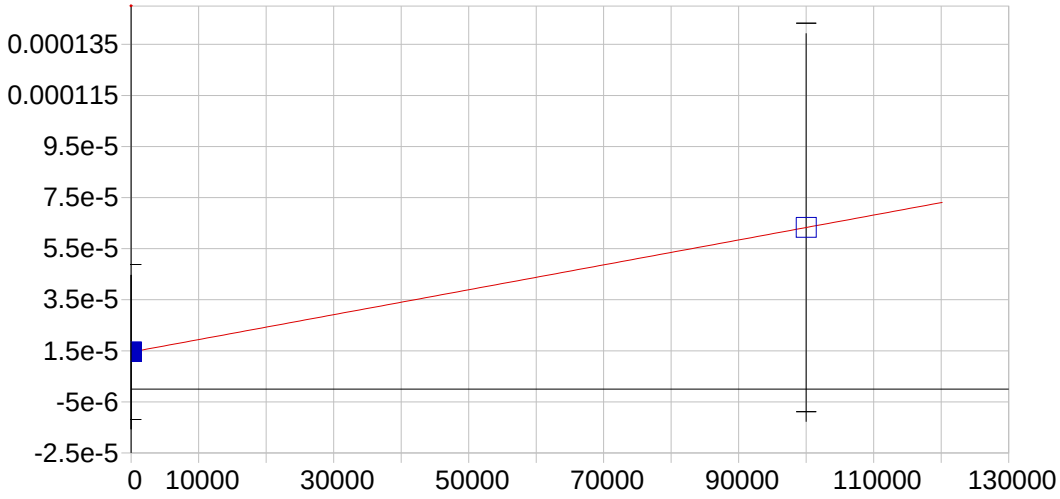
A0 (Offset):	6.650840	Re-Slope:	1.000000
A1 (Gain):	4.252022	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.233125		
Predicted MDL:	0.163959		
Predicted MQL:	0.546529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00130	-.001	.000	6.6453	.353	1
CalibStd=100	100.00	102.46	2.46	2.46	442.29	6.26	1
CalibStd=50	50.000	50.525	.525	1.05	221.48	4.55	1
CalibStd=10	10.000	10.994	.994	9.94	53.398	.232	1
CalibStd=100	1000.0	996.03	-3.97	-.397	4242.3	73.9	1



Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	83243.	1280.	1

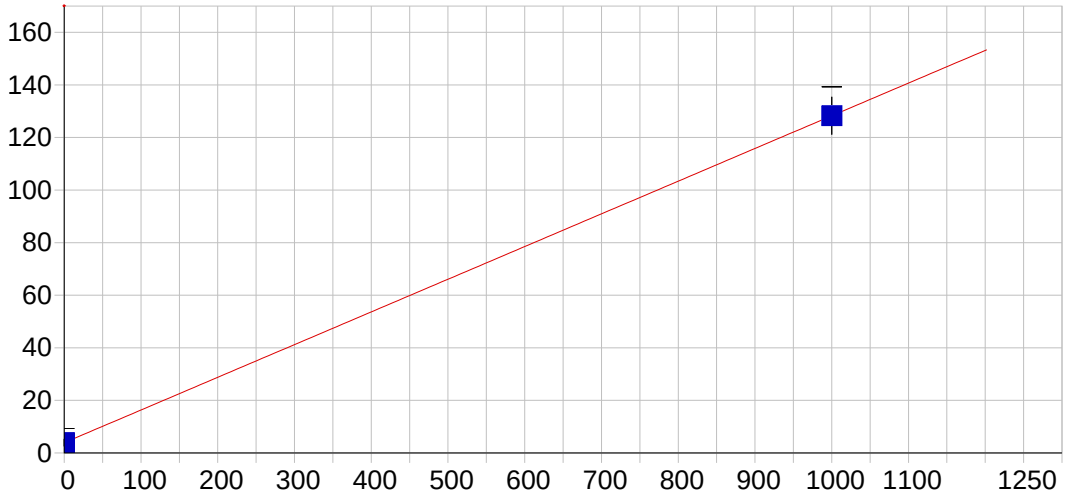


Na 330.298 {102}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	68621.31427		
Predicted MQL:	228737.7142		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd-100	100000.	100000.	.000	.000	.00006	.000	1

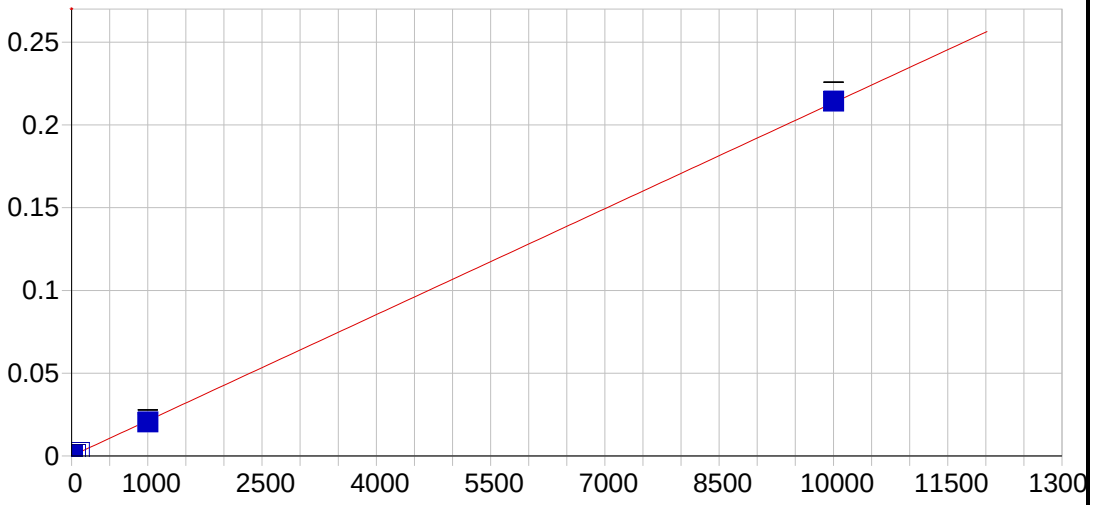


Si 251.611 {134}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	3.905064	Re-Slope:	1.000000
A1 (Gain):	0.124361	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	12.365232		
Predicted MQL:	41.217440		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	3.9051	1.43	1
CalibStd=100	1000.0	1000.0	.000	.000	128.31	7.20	1

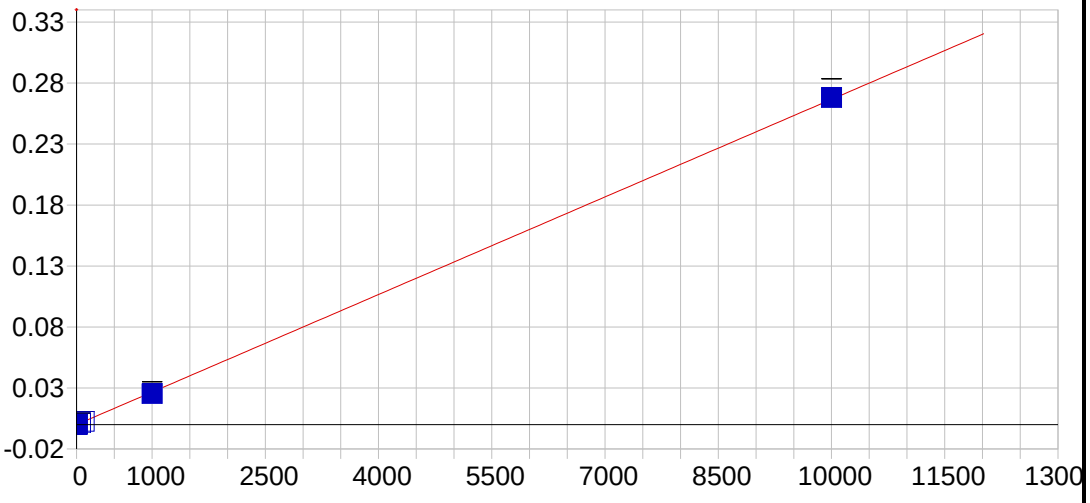


Ti 334.941 {101}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.215076		
Predicted MQL:	4.050253		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00034	.000	.000	.00001	.000	1
CalibStd=10	10.000	10.408	.408	4.08	.00024	.000	1
CalibStd=100	100.00	97.972	-2.03	-2.03	.00210	.000	1
CalibStd=100	1000.0	958.32	-41.7	-4.17	.02047	.001	1
CalibStd=100	10000.	10044.	44.3	.443	.21438	.005	1
CalibStd=50	50.000	48.893	-1.11	-2.21	.00106	.000	1
CalibStd=1	1.0000	.60177	-.398	-39.8	.00003	.000	1
CalibStd=5	5.0000	5.4748	.475	9.50	.00013	.000	1

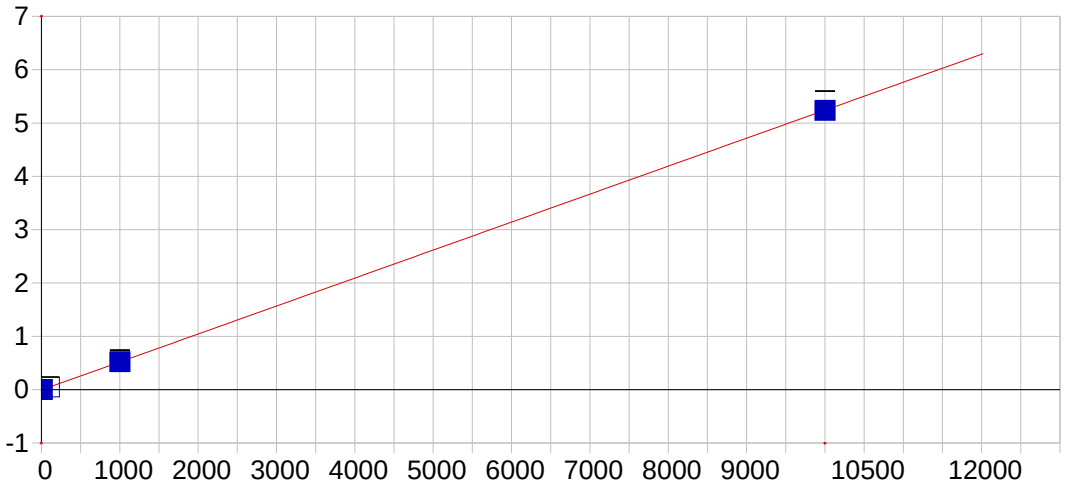


Ti 337.280 {100}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000052	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999872	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.317497		
Predicted MQL:	4.391658		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00045	.000	.000	-.00005	.000	1
CalibStd=10	10.000	10.703	.703	7.03	.00023	.000	1
CalibStd=100	100.00	96.705	-3.29	-3.29	.00253	.000	1
CalibStd=100	1000.0	954.60	-45.4	-4.54	.02541	.001	1
CalibStd=100	10000.	10052.	52.2	.522	.26807	.007	1
CalibStd=50	50.000	46.541	-3.46	-6.92	.00119	.000	1
CalibStd=1	1.0000	.70422	-.296	-29.6	-.00003	.000	1
CalibStd=5	5.0000	4.5875	-.413	-8.25	.00007	.000	1

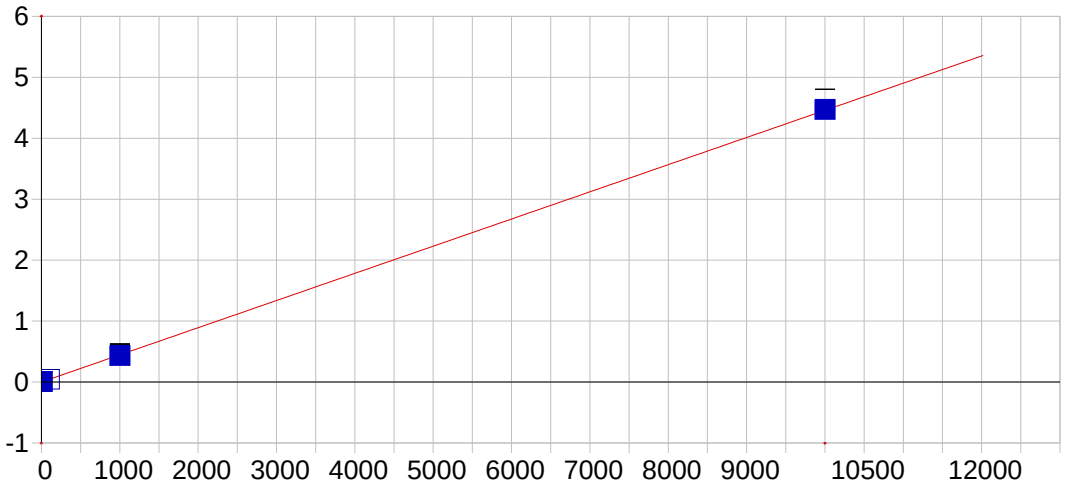


Sr 407.771 { 83}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005866	Re-Slope:	1.000000
A1 (Gain):	0.000525	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.141053		
Predicted MQL:	0.470178		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00058	-.001	.000	-.00587	.000	1
CalibStd=1	1.0000	1.2939	.294	29.4	-.00519	.000	1
CalibStd=5	5.0000	5.5500	.550	11.0	-.00295	.000	1
CalibStd=10	10.000	11.357	1.36	13.6	.00009	.000	1
CalibStd=100	100.00	103.30	3.30	3.30	.04833	.002	1
CalibStd=100	1000.0	1004.9	4.93	.493	.52138	.031	1
CalibStd=100	10000.	9989.6	-10.4	-.104	5.2353	.174	1

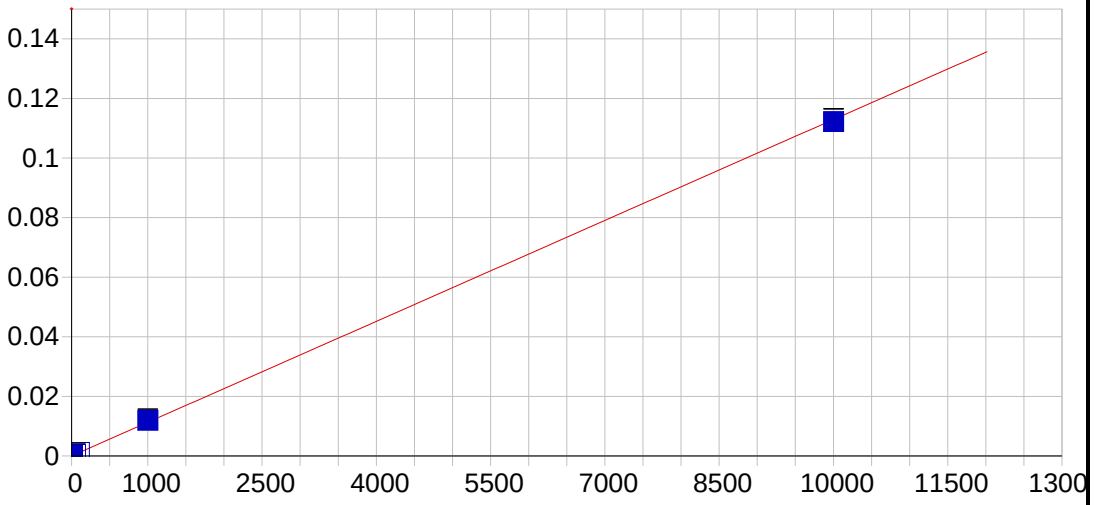


Sr 421.552 { 80}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000072	Re-Slope:	1.000000
A1 (Gain):	0.000446	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.135397		
Predicted MQL:	0.451322		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00007	.000	.000	-.00007	.000	1
CalibStd=1	1.0000	.93787	-.062	-6.21	.00035	.000	1
CalibStd=5	5.0000	5.1715	.171	3.43	.00223	.000	1
CalibStd=10	10.000	9.8866	-.113	-1.13	.00434	.000	1
CalibStd=100	100.00	99.874	-.126	-.126	.04446	.001	1
CalibStd=100	1000.0	971.48	-28.5	-2.85	.43307	.025	1
CalibStd=100	10000.	10029.	28.6	.286	4.4712	.167	1

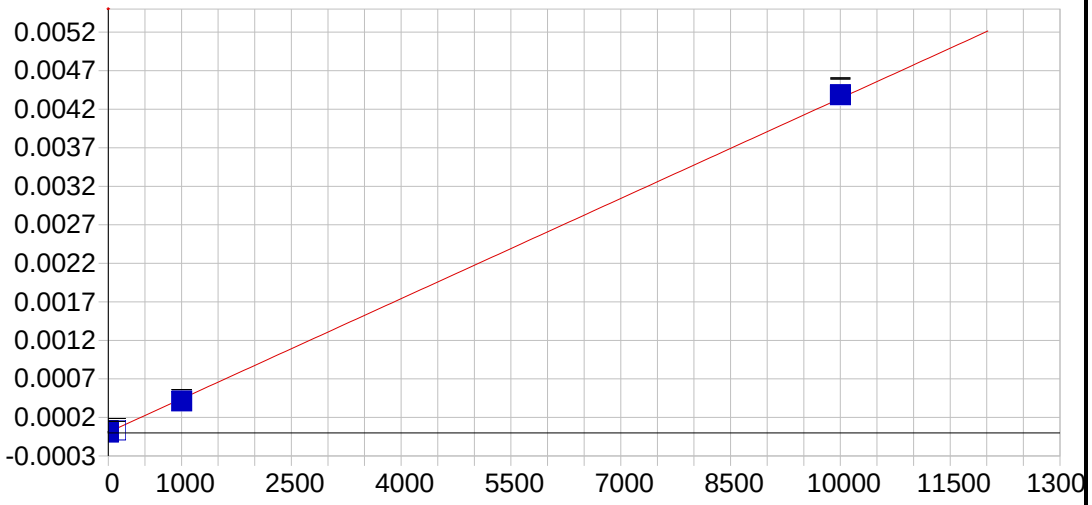


Sn 189.989 {477}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.000011	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999798	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.584354		
Predicted MQL:	1.947846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00224	-.002	.000	.00002	.000	1
CalibStd=100	10000.	9932.8	-67.2	-.672	.11217	.001	1
CalibStd=100	1000.0	1055.4	55.4	5.54	.01193	.000	1
CalibStd=100	100.00	107.58	7.58	7.58	.00123	.000	1
CalibStd=10	10.000	10.510	.510	5.10	.00013	.000	1
CalibStd=50	50.000	52.690	2.69	5.38	.00061	.000	1
CalibStd=5	5.0000	6.0933	1.09	21.9	.00008	.000	1

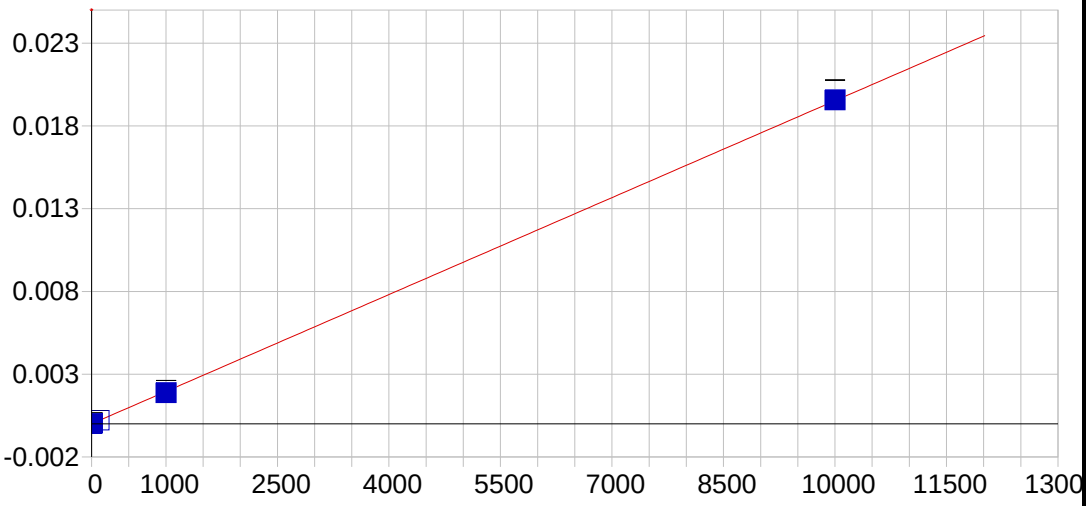


Sn 283.999 {119}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998976	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	41.791690		
Predicted MQL:	139.305634		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04687	.047	.000	.00001	.000	1
CalibStd=100	10000.	10108.	108.	1.08	.00438	.000	1
CalibStd=100	1000.0	933.91	-66.1	-6.61	.00041	.000	1
CalibStd=100	100.00	58.663	-41.3	-41.3	.00003	.000	1

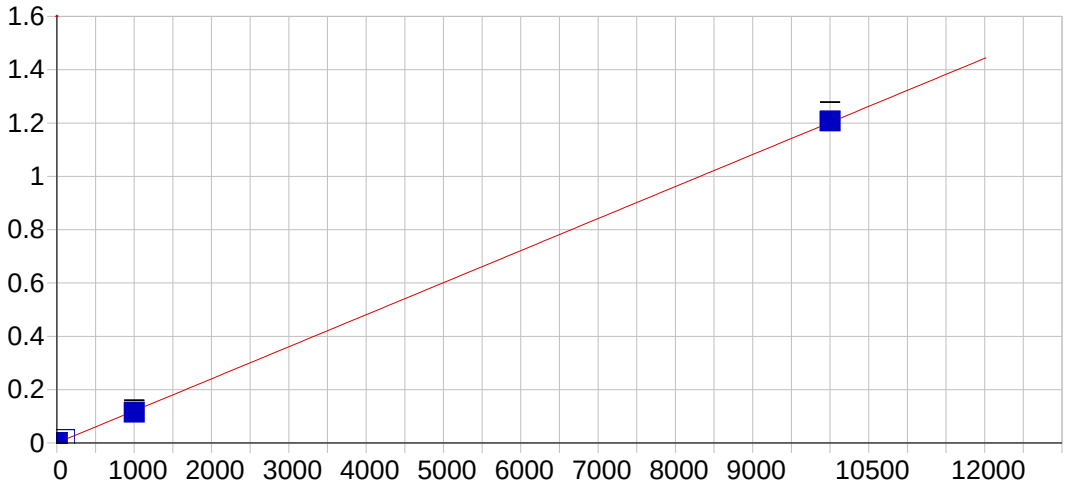


B 249.773 {135}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999728	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	8.035888		
Predicted MQL:	26.786292		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00637	-.006	.000	.00001	.000	1
CalibStd=100	100.00	110.13	10.1	10.1	.00022	.000	1
CalibStd=10	10.000	15.737	5.74	57.4	.00004	.000	1
CalibStd=100	1000.0	959.08	-40.9	-4.09	.00188	.000	1
CalibStd=100	10000.	10025.	25.1	.251	.01958	.001	1



Li 670.784 { 50}

Date of Fit:	08/27/2013 09:22:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000186	Re-Slope:	1.000000
A1 (Gain):	0.000120	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	1.126090		
Predicted MQL:	3.753632		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00125	.001	.000	.00019	.000	1
CalibStd=10	10.000	9.3463	-.654	-6.54	.00131	.000	1
CalibStd=100	100.00	97.826	-2.17	-2.17	.01194	.000	1
CalibStd=100	1000.0	957.92	-42.1	-4.21	.11534	.007	1
CalibStd=100	10000.	10045.	44.9	.449	1.2077	.033	1

Sample Name: Blank Acquired: 08/23/2013 12:51:02 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-21.1**	**2.54**	**-4.07**	**1.31**	**-.580**	**-.421**	**39.4**	**-191.**	**4.73**	**.498**	**.010**	**287.**
Stddev	2.9	1.92	3.39	.06	1.04	.191	4.4	13.	1.65	.364	.000	6.
%RSD	13.9	75.8	83.3	4.31	180.	45.4	11.1	7.02	34.8	73.1	.116	1.94

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-2.22**	**2.91**	**-1.33**	**1.42**	**-.106**	**2.18**	**-.523**	**.001**	**1.52**	**.696**	**1.83**	**-5.49**
Stddev	.66	1.16	.60	1.14	4.73	2.26	.847	.000	.66	.814	.97	.32
%RSD	29.7	39.9	45.2	80.2	4480.	103.	162.	1.74	43.3	117.	53.3	5.91

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**-.379**	**-.230**	**-3.34**	**1.35**	**1.15**	**4.17**	**1.07**	**-3.51**	**.741**
Stddev	.000	.00	.000	.567	.635	.78	1.12	.50	.60	.71	1.26	1.59
%RSD	3.17	158.	10500.	149.	276.	23.3	83.1	43.4	14.3	66.7	35.8	214.

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.011**	**-3.40**	**.000**	**-.107**	**.199**	**15.3**	**1.42**	**6.65**
Stddev	.105	1.81	.00	.125	1.10	4.2	.42	.35
%RSD	943.	53.3	347.	116.	552.	27.6	29.6	5.31

Int. Std.	Y_3600
Units	Cts/S
Avg	**83243.**
Stddev	1279.
%RSD	1.5366

Sample Name: CalibStd=0.25 Acquired: 08/23/2013 12:54:22 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130
Units	Cts/S
Avg	**10.9**
Stddev	.7
%RSD	6.43

Sample Name: CalibStd=0.5 Acquired: 08/23/2013 12:57:45 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**10.2**	**4.45**
Stddev	1.3	1.18
%RSD	12.4	26.6

Sample Name: CalibStd=1 Acquired: 08/23/2013 13:01:07 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Cd2265
Units	Cts/S	Cts/S
Avg	**-16.5**	**9.84**
Stddev	5.3	.72
%RSD	32.2	7.31

Int. Std.	Y_3600
Units	Cts/S
Avg	**86058.**
Stddev	1384.
%RSD	1.6077

Sample Name: CalibStd=5 Acquired: 08/23/2013 13:04:30 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cu2247	Mn2576	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.35**	**197.**	**54.9**	**54.0**	**31.0**	**14.7**	**.000**	**31.0**	**9.16**
Stddev	.21	2.	2.4	1.2	.7	1.2	.000	.7	.23
%RSD	2.91	.918	4.35	2.26	2.10	8.35	2.45	2.23	2.47

Int. Std.	Y_3600
Units	Cts/S
Avg	**86397.**
Stddev	612.
%RSD	.70877

Sample Name: CalibStd=10 Acquired: 08/23/2013 13:07:51 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**23.5**	**8.44**	**2.67**	**358.**	**99.1**	**106.**	**62.3**	**95.0**	**27.4**	**.000**	**22.1**	**56.6**
Stddev	3.5	.30	.16	16.	3.7	2.	2.2	2.3	1.6	.000	.3	2.6
%RSD	14.7	3.53	5.84	4.45	3.70	2.32	3.57	2.46	5.78	3.84	1.18	4.65

Elem	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.1**	**6.73**	**2.31**	**3.55**	**3.55**	**2.91**	**156.**	**53.4**
Stddev	1.8	.37	.87	1.24	.26	.49	2.	.2
%RSD	12.1	5.51	37.8	34.9	7.42	16.8	1.12	.435

Int. Std.	Y_3600
Units	Cts/S
Avg	**86592.**
Stddev	263.
%RSD	.30376

Sample Name: CalibStd=20 Acquired: 08/23/2013 13:11:12 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ba4554	Cr2677	Cu2247	Fe2599	Mn2576	Mo2020	Sb2175	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**648.**	**193.**	**54.0**	**7.12**	**.000**	**43.9**	**7.73**	**295.**
Stddev	28.	1.	1.6	.27	.000	.5	.81	3.
%RSD	4.29	.741	2.87	3.76	3.90	1.20	10.4	.856

Int. Std.	Y_3600
Units	Cts/S
Avg	**87088.**
Stddev	614.
%RSD	.70472

Sample Name: CalibStd=50 Acquired: 08/23/2013 13:14:32 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**32.1**	**16.6**	**1580.**	**5040.**	**529.**	**312.**	**496.**	**29.0**	**135.**	**15.3**	**.003**	**.001**
Stddev	.9	.6	65.	199.	11.	8.	2.	.8	3.	1.0	.000	.000
%RSD	2.65	3.52	4.10	3.95	2.12	2.52	.434	2.78	2.39	6.73	4.09	2.41

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110.**	**51.4**	**276.**	**28.6**	**11.3**	**17.5**	**15.9**	**712.**	**221.**
Stddev	3.	1.1	6.	.6	1.4	.5	.1	9.	5.
%RSD	2.85	2.17	2.25	2.12	12.0	3.04	.810	1.29	2.06

Int. Std.	Y_3600
Units	Cts/S
Avg	**87015.**
Stddev	480.
%RSD	.55166

Sample Name: CalibStd=100 Acquired: 08/23/2013 13:17:48 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3933	Cd2265	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**564.**	**34.5**	**8.49**	**3080.**	**2270.**	**948.**	**93.9**	**8160.**	**1070.**	**1160.**	**637.**	**1020.**
Stddev	6.	.6	.27	99.	81.	28.	2.1	242.	19.	19.	12.	5.
%RSD	1.08	1.66	3.20	3.22	3.58	2.99	2.22	2.96	1.76	1.60	1.91	.498

Elem	Cr2835	Cu2247	Cu3247	Fe2599	Mg2802	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**58.7**	**275.**	**.002**	**27.0**	**.006**	**.002**	**223.**	**104.**	**436.**	**563.**	**42.7**	**116.**
Stddev	1.9	5.	.000	1.6	.000	.000	4.	1.	8.	10.	1.4	1.
%RSD	3.28	1.83	1.07	5.76	3.53	3.64	1.71	.955	1.93	1.81	3.21	1.24

Elem	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**55.0**	**21.9**	**35.9**	**32.6**	**1450.**	**442.**
Stddev	.8	.9	.9	.5	18.	6.
%RSD	1.39	4.01	2.54	1.57	1.21	1.42

Int. Std.	Y_3600
Units	Cts/S
Avg	**86384.**
Stddev	354.
%RSD	.41033

Sample Name: CalibStd=1000 Acquired: 08/23/2013 13:20:54 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al1670	As1937	As1890	Ba4934	Be2348	Ca3179	Ca3933	Cd2265	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**152.**	**589.**	**349.**	**83.2**	**23700.**	**925.**	**.014**	**70800.**	**10500.**	**11300.**	**6210.**
Stddev	10.	11.	6.	1.3	1150.	40.	.000	3210.	195.	204.	125.
%RSD	6.72	1.91	1.72	1.59	4.85	4.34	1.51	4.53	1.85	1.80	2.02

Elem	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2802	Mn2576	Mn2593
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**187.**	**9840.**	**544.**	**2690.**	**.011**	**43.3**	**72.3**	**237.**	**.052**	**.015**	**.019**
Stddev	8.	83.	22.	57.	.001	3.5	3.3	11.	.003	.001	.001
%RSD	4.09	.846	4.06	2.13	5.39	8.02	4.49	4.69	5.60	5.91	5.44

Elem	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2210.**	**1040.**	**4270.**	**5470.**	**408.**	**1090.**	**546.**	**555.**	**212.**	**352.**	**54.0**
Stddev	43.	20.	88.	117.	7.	19.	10.	8.	6.	6.	1.7
%RSD	1.93	1.89	2.06	2.14	1.70	1.75	1.75	1.53	2.84	1.60	3.11

Elem	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**316.**	**424.**	**14000.**	**5500.**	**4240.**
Stddev	.000	6.	18.	126.	126.	74.
%RSD	24.1	2.05	4.29	.900	2.29	1.74

Int. Std.	Y_3600
Units	Cts/S
Avg	**85951.**
Stddev	1312.
%RSD	1.5268

Sample Name: CalibStd=10000 Acquired: 08/23/2013 13:23:40 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	As1890	Ba4554	Ba4934	Ca3179	Co2388	Cr2835	Cu2247	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1550.**	**4500.**	**806.**	**291000.**	**238000.**	**.048**	**1920.**	**5600.**	**25300.**	**.103**
Stddev	55.	173.	4.	17700.	16400.	.001	65.	182.	207.	.003
%RSD	3.54	3.85	.481	6.09	6.91	2.14	3.37	3.25	.819	2.50

Elem	Fe2343	Fe2395	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**429.**	**735.**	**2420.**	**5610.**	**.526**	**.194**	**10100.**	**40200.**	**3700.**	**5180.**
Stddev	13.	26.	85.	57.	.012	.005	74.	316.	29.	30.
%RSD	3.13	3.48	3.49	1.02	2.21	2.34	.732	.787	.787	.585

Elem	Se1960	Se1960	Se2062	Tl2767	V_2908	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2100.**	**3330.**	**531.**	**.001**	**4430.**	**52100.**
Stddev	21.	20.	5.	.000	163.	369.
%RSD	.989	.585	.867	3.91	3.69	.709

Int. Std.	Y_3600
Units	Cts/S
Avg	**85058.**
Stddev	1282.
%RSD	1.5076

Sample Name: CalibStd-100k Acquired: 08/23/2013 13:27:04 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Cr2835	Cu3247	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**55600.**	**.981**	**1.82**	**37000.**	**440000.**
Stddev	1920.	.044	.08	382.	7660.
%RSD	3.45	4.49	4.44	1.03	1.74

Int. Std.	Y_3600
Units	Cts/S
Avg	**85809.**
Stddev	865.
%RSD	1.0081

Sample Name: CalibStd-100000 Acquired: 08/23/2013 13:30:27 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14900.**	**42300.**	**.379**	**4030.**	**6870.**	**49200.**
Stddev	485.	1430.	.014	133.	224.	478.
%RSD	3.25	3.39	3.67	3.31	3.25	.973

Int. Std.	Y_3600
Units	Cts/S
Avg	**85025.**
Stddev	240.
%RSD	.28274

Sample Name: CalibStd=500000 Acquired: 08/23/2013 13:33:59 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**213000.**	**1.78**	**18000.**	**187000.**
Stddev	5540.	.06	418.	2340.
%RSD	2.60	3.30	2.31	1.25

Int. Std.	Y_3600
Units	Cts/S
Avg	**81852.**
Stddev	505.
%RSD	.61641

Sample Name: CalibStd-1000k Acquired: 08/23/2013 13:37:15 Type: Cal
Method: DOD Calibration 1(v1401) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**395000.**	**3.26**	**32600.**	**300000.**
Stddev	16400.	.15	894.	2090.
%RSD	4.14	4.58	2.74	.697

Int. Std.	Y_3600
Units	Cts/S
Avg	**79122.**
Stddev	741.
%RSD	.93697

Sample Name: icv Acquired: 08/23/2013 13:44:09 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343	Mg2025
Avg	**47.8**	**12100.**	**2050.**	**2110.**	**50.5**	**10000.**	**50.1**	**499.**	**206.**	**264.**	**5200.**	**10100.**
Stddev	.3	338.	17.	56.	1.5	246.	.7	7.	1.	3.	87.	146.
%RSD	.600	2.80	.811	2.67	2.89	2.45	1.30	1.33	.529	1.27	1.67	1.44
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl2767	V_2924	Zn2138
Avg	**504.**	**496.**	**499.**	**487.**	**497.**	**2120.**	**2100.**	**515.**	**505.**
Stddev	10.	6.	6.	4.	6.	33.	84.	3.	6.
%RSD	2.06	1.27	1.17	.918	1.26	1.57	4.00	.561	1.26
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**86537.**
Stddev	879.
%RSD	1.0155

Sample Name: ICVLL Acquired: 08/23/2013 13:47:16 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**53.0**	**1180.**	**60.8**	**32.6**	**13.1**	**1430.**	**15.7**	**31.0**	**30.5**	**31.7**	**955.**	**1480.**
Stddev	.6	38.	2.8	.2	.1	54.	.3	.6	.4	.5	23.	46.
%RSD	1.07	3.18	4.67	.579	1.13	3.77	1.94	1.78	1.32	1.50	2.39	3.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**30.8**	**30.9**	**31.2**	**29.7**	**56.4**	**71.5**	**59.1**	**31.4**	**30.8**
Stddev	.4	.7	.5	.8	2.0	1.6	.5	.4	.3
%RSD	1.32	2.36	1.54	2.67	3.58	2.17	.874	1.14	1.04
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**86393.**
Stddev	556.
%RSD	.64408

Sample Name: icb Acquired: 08/23/2013 13:53:52 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599
Avg	**.754**	**.338**	**.038**	**-1.70**	**.079**	**-6.78**	**-.391**	**.060**	**-.679**	**-7.55**	**.116**	**15.0**
Stddev	.705	.757	1.17	.10	.150	.20	.042	.088	.177	3.13	.205	2.9
%RSD	93.5	224.	3090.	5.98	188.	2.96	10.9	147.	26.1	41.5	176.	19.2
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**7.97**	**.605**	**.488**	**.023**	**-.245**	**2.56**	**.642**	**-1.65**	**-.071**	**.515**
Stddev	.05	.259	.174	.300	.493	1.53	1.43	1.92	.481	.217
%RSD	.607	42.8	35.6	1300.	202.	59.8	223.	116.	679.	42.1
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**86728.**
Stddev	770.
%RSD	.88781

Sample Name: MRL Acquired: 08/23/2013 13:57:14 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599
Avg	**18.2**	**415.**	**19.7**	**8.75**	**4.33**	**492.**	**4.95**	**10.4**	**9.34**	**3.61**	**10.8**	**292.**
Stddev	1.1	9.	1.2	.37	.05	16.	.08	.1	.34	1.06	.3	9.
%RSD	6.19	2.19	6.23	4.25	1.20	3.31	1.54	.870	3.65	29.2	2.39	2.95
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**481.**	**11.6**	**10.2**	**10.4**	**9.49**	**21.0**	**23.1**	**17.7**	**10.1**	**11.6**
Stddev	18.	.8	.2	.3	1.30	2.2	.8	.4	.3	.3
%RSD	3.69	6.93	2.31	3.34	13.7	10.3	3.62	2.43	2.66	2.43
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**86904.**
Stddev	746.
%RSD	.85890

Sample Name: icsa Acquired: 08/23/2013 14:00:33 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Avg	**.000**	**490000.**	**-.002**	**.000**	**.024**	**447000.**	**.000**	**-.014**	**-.275**	**-.002**	**478000.**
Stddev	.274	21400.	6.26	.128	.238	21000.	1.08	.105	.583	3.37	19600.
%RSD	2957e15	4.37	374000.	250000.	980.	4.70	613000.	726.	212.	164000.	4.09
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit											
Low Limit											

Elem	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**482000.**	**.000**	**.132**	**-.001**	**.000**	**.000**	**-.002**	**.000**	**.000**	**-.001**
Stddev	6390.	1.18	.268	.365	.12	2.27	4.44	1.37	.66	1.57
%RSD	1.32	6710000.	202.	71100.	273000.	871000.	270000.	814000.	2360000.	219000.
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_3600
Avg	**82034.**
Stddev	918.
%RSD	1.1192

Sample Name: icsab Acquired: 08/23/2013 14:03:49 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**426.**	**475000.**	**451.**	**521.**	**446.**	**439000.**	**431.**	**483.**	**475.**	**538.**	**468000.**
Stddev	4.	15500.	9.	17.	14.	19000.	5.	17.	17.	19.	15900.
%RSD	1.02	3.26	1.97	3.28	3.19	4.32	1.07	3.44	3.58	3.50	3.39
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2025	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Tl2767	V_2908	Zn2138
Avg	**469000.**	**436.**	**466.**	**462.**	**439.**	**449.**	**434.**	**594.**	**509.**	**445.**
Stddev	6310.	36.	5.	7.	21.	1.	5.	----	16.	4.
%RSD	1.35	8.35	1.09	1.48	4.73	.222	1.14	261.	3.22	.990
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**81526.**
Stddev	809.
%RSD	.99208

Sample Name: ccv1 Acquired: 08/23/2013 17:41:33 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2395	Mg2025	Mg2802
Avg	**448.**	**5000.**	**4660.**	**463.**	**5040.**	**492.**	**4500.**	**4410.**	**5210.**	**4590.**	**4640.**	**5060.**
Stddev	6.	57.	117.	10.	104.	6.	112.	117.	128.	140.	89.	132.
%RSD	1.30	1.13	2.52	2.16	2.05	1.25	2.48	2.65	2.45	3.06	1.92	2.61
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**5330.**	**5010.**	**5030.**	**5060.**	**5050.**	**5120.**	**5150.**	**4470.**	**4860.**
Stddev	130.	62.	72.	72.	59.	1.	43.	84.	70.
%RSD	2.44	1.25	1.43	1.41	1.17	.025	.839	1.88	1.43
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**75328.**
Stddev	116.
%RSD	.15396

Sample Name: ccv2 Acquired: 08/23/2013 17:44:18 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**50.9**	**533.**	**506.**	**487.**	**48.9**	**482.**	**52.2**	**496.**	**519.**	**530.**	**485.**	**551.**
Stddev	1.3	1.	3.	2.	.1	2.	.7	4.	.	6.	6.	5.
%RSD	2.47	.280	.537	.377	.303	.333	1.28	.905	.077	1.18	1.33	.901
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**562.**	**504.**	**496.**	**508.**	**502.**	**547.**	**506.**	**515.**	**505.**
Stddev	5.	6.	6.	4.	2.	3.	1.	.	6.
%RSD	.951	1.24	1.13	.863	.471	.542	.256	.072	1.10
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**73952.**
Stddev	732.
%RSD	.99012

Sample Name: ccb Acquired: 08/23/2013 17:47:17 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599
Avg	**1.12**	**-.041**	**1.04**	**-.417**	**.253**	**-4.53**	**-.380**	**.452**	**1.16**	**-4.24**	**.668**	**3.40**
Stddev	.16	.662	.23	.424	.073	.11	.097	.073	.32	2.27	.451	4.63
%RSD	14.1	1630.	21.8	102.	28.8	2.49	25.5	16.1	27.5	53.5	67.5	136.
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960	Tl2767	Tl1908	V_2924	Zn2138
Avg	**8.89**	**1.14**	**2.75**	**.396**	**-.474**	**-.774**	**1.33**	**2.91**	**240.**	**2.30**	**.757**	**1.13**
Stddev	.32	.50	.19	.131	.502	.358	.28	1.57	31.	2.15	.442	.16
%RSD	3.56	43.6	6.78	33.1	106.	46.2	21.1	54.1	12.9	93.6	58.3	14.1
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**75412.**
Stddev	362.
%RSD	.47963

Sample Name: lcsw45554 Acquired: 08/23/2013 18:01:21 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**22.2**	**924.**	**895.**	**891.**	**849.**	**845.**	**20.2**	**12.6**	**21.9**	**221.**	**90.5**	**74.8**
Stddev	.3	18.	14.	15.	33.	36.	.7	5.7	.3	4.	.6	4.0
%RSD	1.47	1.95	1.60	1.68	3.88	4.20	3.34	45.5	1.31	1.89	.707	5.39

Elem	Cu2247	Fe2599	Mg2802	Mn2576	Mo2020	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**117.**	**412.**	**11.2**	**242.**	**.415**	**221.**	**246.**	**222.**	**236.**	**223.**	**897.**	**940.**
Stddev	2.	16.	1.7	7.	.230	4.	8.	5.	5.	3.	15.	19.
%RSD	2.08	3.95	14.8	2.74	55.5	1.93	3.05	2.16	2.25	1.23	1.69	2.06

Elem	Se2062	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**965.**	**999.**	**913.**	**224.**	**224.**
Stddev	19.	186.	15.	1.	4.
%RSD	1.91	18.6	1.62	.337	1.85

Int. Std.	Y_3600
Units	Cts/S
Avg	**74687.**
Stddev	664.
%RSD	.88841

Sample Name: mbw45554 Acquired: 08/23/2013 18:04:32 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.38**	**-.564**	**-.878**	**.514**	**.127**	**-8.23**	**-.443**	**-.150**	**-.504**	**-5.33**	**.114**	**.344**
Stddev	.63	.685	.783	.965	.243	.08	.046	.017	.306	1.30	.395	3.76
%RSD	45.5	121.	89.2	188.	191.	1.00	10.3	11.1	60.6	24.3	348.	1090.

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.35**	**.633**	**.224**	**-.119**	**.438**	**-1.66**	**1.60**	**5.64**	**201.**	**.474**	**.188**	**.955**
Stddev	.27	1.42	.057	.341	3.24	.43	.76	1.55	349.	1.15	.455	.100
%RSD	5.00	224.	25.5	285.	738.	26.0	47.3	27.4	174.	244.	242.	10.4

Int. Std.	Y_3600
Units	Cts/S
Avg	**74569.**
Stddev	312.
%RSD	.41794

Sample Name: 339578 Acquired: 08/23/2013 18:07:57 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.42**	**78.7**	**-6.00**	**398.**	**397.**	**.275**	**180000.**	**.618**	**4.60**	**1.15**	**-6.77**
Stddev	.65	.8	2.25	14.	15.	.176	7090.	.155	.08	.43	3.07
%RSD	45.9	1.04	37.5	3.60	3.80	63.8	3.94	25.2	1.76	37.0	45.4

Elem	Cu2247	Fe2599	Mg2025	Mn2593	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960	Tl2767
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.07**	**54.2**	**27300.**	**2230.**	**.052**	**14.1**	**3.46**	**2.18**	**.364**	**16.7**	**517.**
Stddev	.37	5.3	523.	85.	.179	.2	1.53	.67	1.31	.6	149.
%RSD	7.30	9.73	1.92	3.83	344.	1.33	44.2	30.5	361.	3.36	28.8

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**-12.0**	**-1.83**	**151.**
Stddev	1.9	.30	3.
%RSD	15.7	16.4	1.97

Int. Std.	Y_3600
Units	Cts/S
Avg	**70774.**
Stddev	458.
%RSD	.64645

Sample Name: 339580 Acquired: 08/23/2013 18:11:27 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.84**	**7640.**	**7540.**	**10.2**	**187.**	**187.**	**.268**	**63300.**	**.014**	**3.20**	**19.4**	**20.7**
Stddev	.59	171.	131.	1.2	4.	5.	.131	2210.	.033	.10	.2	2.7
%RSD	32.0	2.24	1.73	11.6	2.38	2.70	48.8	3.48	233.	3.11	1.11	13.1

Elem	Cu2247	Fe2343	Fe2395	Mg2025	Mn2576	Mn2593	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**16.6**	**28400.**	**29000.**	**18900.**	**677.**	**705.**	**16.8**	**17.9**	**27.3**	**13.1**	**2.01**	**2.83**
Stddev	.2	795.	807.	245.	25.	22.	.4	.4	2.7	.5	.89	1.76
%RSD	1.27	2.81	2.78	1.29	3.65	3.14	2.19	1.96	9.87	3.78	44.0	62.3

Elem	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L
Avg	**248.**	**-1.37**	**11.2**	**75.4**
Stddev	227.	1.96	.7	.6
%RSD	91.5	144.	6.21	.855

Int. Std.	Y_3600
Units	Cts/S
Avg	**70675.**
Stddev	386.
%RSD	.54664

Sample Name: I339580 Acquired: 08/23/2013 18:15:01 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.658**	**1630.**	**4.07**	**40.4**	**.123**	**13600.**	**-.382**	**.716**	**3.47**	**-.619**	**3.71**	**6210.**
Stddev	.986	93.	1.06	1.0	.037	259.	.046	.193	.18	3.75	.65	172.
%RSD	150.	5.68	26.0	2.55	30.0	1.91	11.9	27.0	5.20	605.	17.6	2.77

Elem	Fe2395	Mg2802	Mn2576	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960	Tl2767	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6420.**	**5690.**	**145.**	**3.26**	**3.39**	**6.69**	**1.70**	**2.61**	**-1.05**	**226.**	**.467**	**2.08**
Stddev	190.	129.	2.	.19	.51	1.12	.34	.65	1.92	62.	1.18	.14
%RSD	2.97	2.27	1.63	5.67	15.1	16.7	20.0	24.8	183.	27.4	253.	6.48

Elem	Zn2138
Units	ug/L
Avg	**14.0**
Stddev	.5
%RSD	3.78

Int. Std.	Y_3600
Units	Cts/S
Avg	**75116.**
Stddev	378.
%RSD	.50369

Sample Name: dup339580 Acquired: 08/23/2013 18:18:33 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.04**	**7020.**	**6900.**	**10.8**	**182.**	**183.**	**.300**	**64000.**	**.020**	**3.38**	**19.4**	**17.0**
Stddev	.73	203.	237.	1.2	7.	7.	.152	2910.	.092	.21	.6	2.2
%RSD	70.3	2.89	3.44	10.8	3.76	3.60	50.6	4.55	462.	6.19	3.33	12.9

Elem	Cu2247	Fe2343	Fe2395	Mg2025	Mn2576	Mn2593	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**17.5**	**28300.**	**29000.**	**19200.**	**682.**	**711.**	**16.8**	**18.4**	**28.9**	**12.5**	**4.26**	**.519**
Stddev	.3	1150.	1220.	175.	27.	32.	.0	.3	1.1	.6	.17	.635
%RSD	1.53	4.07	4.21	.912	4.00	4.46	.182	1.43	3.66	5.05	3.94	122.

Elem	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L
Avg	**242.**	**-2.21**	**10.8**	**75.6**
Stddev	238.	1.59	.1	.5
%RSD	98.7	71.8	1.27	.654

Int. Std.	Y_3600
Units	Cts/S
Avg	**70045.**
Stddev	575.
%RSD	.82127

Sample Name: msw339580 Acquired: 08/23/2013 18:22:08 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**21.0**	**8310.**	**8230.**	**870.**	**861.**	**1020.**	**20.6**	**63400.**	**19.0**	**187.**	**101.**	**98.0**
Stddev	.3	272.	226.	10.	11.	35.	.7	3070.	.3	3.	2.	4.8
%RSD	1.24	3.28	2.75	1.14	1.22	3.48	3.27	4.85	1.32	1.40	1.86	4.85

Elem	Cu2247	Fe2343	Fe2395	Mg2025	Mn2576	Mn2593	Mo2020	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**115.**	**29100.**	**29900.**	**18900.**	**919.**	**960.**	**17.3**	**200.**	**222.**	**181.**	**191.**	**183.**
Stddev	1.	976.	1030.	247.	47.	47.	.2	3.	2.	3.	2.	4.
%RSD	1.15	3.35	3.45	1.31	5.07	4.94	1.24	1.69	.840	1.44	.952	2.34

Elem	Se1960	Se1960	Se2062	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**812.**	**840.**	**840.**	**1220.**	**601.**	**217.**	**285.**
Stddev	9.	11.	13.	131.	4.	3.	4.
%RSD	1.11	1.30	1.49	10.8	.652	1.34	1.32

Int. Std.	Y_3600
Units	Cts/S
Avg	**70483.**
Stddev	1153.
%RSD	1.6364

Sample Name: ccv1 Acquired: 08/23/2013 18:25:35 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343	Mg2025	Mn2593
Avg	**462.**	**5020.**	**4720.**	**463.**	**5230.**	**497.**	**4520.**	**4400.**	**5380.**	**4690.**	**4680.**	**5460.**
Stddev	5.	68.	147.	13.	108.	7.	113.	128.	162.	80.	71.	144.
%RSD	1.17	1.36	3.11	2.83	2.06	1.40	2.51	2.92	3.01	1.71	1.52	2.63
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908	Zn2062
Avg	**5040.**	**5060.**	**5110.**	**5080.**	**4840.**	**5000.**	**5200.**	**4650.**	**4520.**	**4900.**
Stddev	82.	91.	72.	57.	56.	53.	61.	55.	129.	97.
%RSD	1.64	1.80	1.40	1.11	1.16	1.05	1.17	1.18	2.85	1.97
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**73782.**
Stddev	349.
%RSD	.47284

Sample Name: ccv2 Acquired: 08/23/2013 18:28:20 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Cu3247	Fe2599
Avg	**50.2**	**543.**	**506.**	**474.**	**47.5**	**468.**	**52.8**	**501.**	**516.**	**534.**	**542.**	**482.**
Stddev	.7	8.	9.	15.	1.5	15.	.9	9.	3.	11.	12.	16.
%RSD	1.44	1.47	1.86	3.25	3.06	3.13	1.71	1.87	.619	2.00	2.15	3.37
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**540.**	**545.**	**508.**	**502.**	**510.**	**503.**	**545.**	**507.**	**512.**	**508.**
Stddev	14.	13.	10.	9.	9.	9.	9.	7.	5.	9.
%RSD	2.61	2.36	1.89	1.85	1.72	1.73	1.65	1.47	1.03	1.73
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**73765.**
Stddev	517.
%RSD	.70131

Sample Name: ccb Acquired: 08/23/2013 18:31:19 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**1.21**	**.240**	**1.99**	**-.246**	**.186**	**-4.17**	**-.349**	**.471**	**1.04**	**.887**	**11.0**	**8.87**
Stddev	.75	.180	.42	.326	.118	.13	.121	.027	.30	.447	1.1	.36
%RSD	62.1	75.0	21.0	132.	63.8	3.09	34.5	5.78	29.0	50.4	9.73	4.09
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**2.04**	**2.83**	**.526**	**.069**	**1.53**	**5.37**	**1.49**	**.788**	**1.06**
Stddev	.63	.17	.076	.557	1.04	1.49	.53	.451	.16
%RSD	30.7	5.96	14.5	805.	68.1	27.7	35.9	57.2	15.1
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**74135.**
Stddev	794.
%RSD	1.0709

Sample Name: msdw339580 Acquired: 08/23/2013 18:34:43 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**20.1**	**7820.**	**7740.**	**866.**	**854.**	**988.**	**984.**	**20.1**	**61700.**	**19.0**	**185.**	**97.6**
Stddev	.7	198.	239.	7.	9.	32.	33.	.8	2610.	.3	3.	.4
%RSD	3.69	2.54	3.09	.774	1.01	3.21	3.36	4.06	4.23	1.73	1.46	.382

Elem	Cr2835	Cu2247	Fe2343	Fe2395	Mg2025	Mn2576	Mn2593	Mo2020	Ni2316	Pb2169	Pb2203	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**92.8**	**114.**	**27900.**	**28800.**	**18700.**	**891.**	**928.**	**17.4**	**199.**	**219.**	**181.**	**189.**
Stddev	6.2	2.	1020.	1010.	191.	35.	40.	.3	2.	2.	4.	2.
%RSD	6.70	1.68	3.64	3.50	1.02	3.97	4.35	1.81	1.16	.764	2.03	1.25

Elem	Sb2175	Se1960	Se1960	Se2062	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**181.**	**802.**	**830.**	**857.**	**1210.**	**600.**	**212.**	**284.**
Stddev	2.	9.	8.	11.	223.	5.	3.	3.
%RSD	1.16	1.16	.957	1.23	18.4	.779	1.21	1.17

Int. Std.	Y_3600
Units	Cts/S
Avg	**70522.**
Stddev	655.
%RSD	.92947

Sample Name: pdsw339580 Acquired: 08/23/2013 18:38:10 Type: Unk
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Co2388	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**94.5**	**10400.**	**10300.**	**4200.**	**4100.**	**96.7**	**61800.**	**92.2**	**114.**	**884.**	**948.**	**406.**
Stddev	.3	358.	339.	35.	160.	3.6	1880.	.8	1.	9.	24.	3.
%RSD	.299	3.43	3.30	.840	3.90	3.70	3.05	.894	.958	1.03	2.50	.841

Elem	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Mg2025	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**389.**	**487.**	**606.**	**29300.**	**30100.**	**18600.**	**1850.**	**16.9**	**964.**	**886.**	**948.**	**826.**
Stddev	17.	5.	18.	998.	868.	228.	62.	.1	10.	9.	7.	7.
%RSD	4.25	1.08	2.96	3.40	2.88	1.22	3.35	.765	1.02	1.04	.702	.834

Elem	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1010.**	**963.**	**4030.**	**4200.**	**4630.**	**2930.**	**960.**	**993.**	**1020.**	**1070.**
Stddev	8.	8.	27.	45.	241.	14.	31.	7.	10.	12.
%RSD	.791	.823	.662	1.07	5.21	.464	3.22	.732	.979	1.09

Int. Std.	Y_3600
Units	Cts/S
Avg	**70788.**
Stddev	342.
%RSD	.48264

Sample Name: ccv1 Acquired: 08/23/2013 18:44:42 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2395	Fe2599
Avg	**455.**	**4480.**	**4960.**	**4720.**	**469.**	**5200.**	**490.**	**4530.**	**4490.**	**5390.**	**4580.**	**4510.**
Stddev	2.	76.	52.	117.	10.	123.	5.	112.	112.	130.	78.	91.
%RSD	.396	1.69	1.06	2.47	2.06	2.37	1.10	2.47	2.50	2.41	1.70	2.01
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908
Avg	**4640.**	**5230.**	**5520.**	**4970.**	**5000.**	**5010.**	**4990.**	**4760.**	**4930.**	**5050.**	**5100.**	**4570.**
Stddev	67.	119.	131.	56.	51.	69.	48.	55.	38.	64.	426.	52.
%RSD	1.44	2.27	2.38	1.12	1.02	1.37	.952	1.16	.762	1.27	8.35	1.14
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	V_2908	Zn2062
Avg	**4530.**	**4860.**
Stddev	122.	41.
%RSD	2.70	.844
Check ?	None	None
Value		
Range		

Sample Name: ccv1 Acquired: 08/23/2013 18:44:42 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	**73378.**
Stddev	212.
%RSD	.28828

Sample Name: ccv2 Acquired: 08/23/2013 18:47:28 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3179	Ca3933	Cd2265	Co2286	Co2388
Avg	**50.5**	**542.**	**505.**	**509.**	**471.**	**470.**	**47.4**	**539.**	**463.**	**52.6**	**502.**	**455.**
Stddev	.9	8.	8.	12.	16.	16.	1.5	7.	15.	1.1	10.	9.
%RSD	1.75	1.51	1.58	2.27	3.33	3.37	3.14	1.31	3.23	2.13	1.96	2.03
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cr2677	Cr2835	Cu2247	Cu3247	Fe2599	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316
Avg	**515.**	**453.**	**534.**	**539.**	**479.**	**539.**	**547.**	**561.**	**508.**	**517.**	**515.**	**502.**
Stddev	5.	14.	11.	11.	14.	11.	11.	13.	8.	10.	11.	10.
%RSD	.904	3.17	1.99	2.05	2.97	2.03	2.08	2.39	1.65	1.95	2.11	1.92
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062
Avg	**550.**	**508.**	**528.**	**504.**	**537.**	**549.**	**550.**	**765.**	**507.**	**453.**	**513.**	**494.**
Stddev	10.	9.	10.	10.	10.	9.	5.	230.	9.	9.	4.	9.
%RSD	1.75	1.79	1.91	1.93	1.79	1.73	.844	30.1	1.72	1.97	.734	1.87
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Sample Name: ccv2 Acquired: 08/23/2013 18:47:28 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Zn2138
Avg	**506.**
Stddev	11.
%RSD	2.15
Check ?	None
Value	
Range	
Int. Std.	Y_3600
Avg	**72952.**
Stddev	666.
%RSD	.91273

Sample Name: ccb Acquired: 08/23/2013 18:50:26 Type: QC
Method: DOD Calibration 1(v1401) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599
Avg	**1.27**	**-1.72**	**.302**	**-.896**	**.108**	**-8.24**	**-.353**	**.250**	**.870**	**-5.11**	**.083**	**4.27**
Stddev	.03	.63	.938	.467	.111	.21	.033	.168	.109	1.65	.037	7.86
%RSD	2.30	36.4	311.	52.1	103.	2.51	9.45	67.0	12.5	32.3	44.2	184.
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960	Tl2767	Tl1908	V_2924	Zn2138
Avg	**6.40**	**.735**	**2.35**	**.011**	**-.320**	**-.956**	**2.90**	**6.19**	**158.**	**1.17**	**.408**	**.514**
Stddev	.37	.811	.39	.151	2.82	.839	.50	1.17	50.	.29	.113	.065
%RSD	5.75	110.	16.5	1400.	879.	87.7	17.3	18.9	31.8	25.2	27.8	12.6
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**73422.**
Stddev	898.
%RSD	1.2227

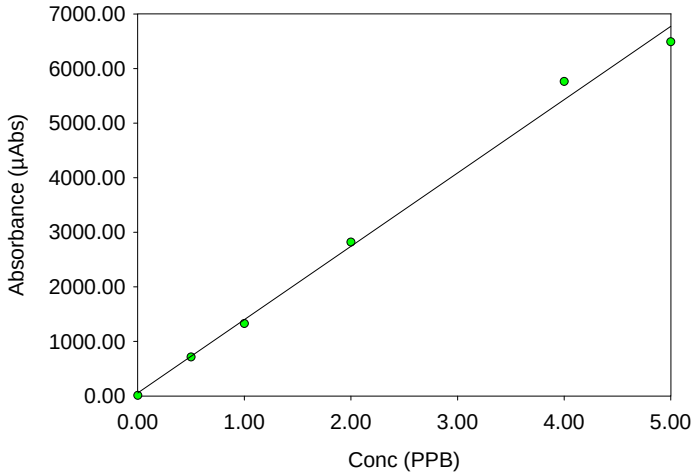
CETAC Hg Analysis Report - 13082100.DB - 08/21/2013, 11:37:35

Analyst
Date Started 08/21/2013, 08:04:31
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	21-Aug-2013, 08:04	0.00	47.50	12.90	1.00	
Standard #1	21-Aug-2013, 08:06	0.50	15.00	718.00	1.00	
Standard #2	21-Aug-2013, 08:08	1.00	19.00	1330.00	1.00	
Standard #3	21-Aug-2013, 08:10	2.00	15.90	2820.00	1.00	
Standard #4	21-Aug-2013, 08:12	4.00	14.40	5770.00	1.00	
Standard #5	21-Aug-2013, 08:14	5.00	15.20	6500.00	1.00	

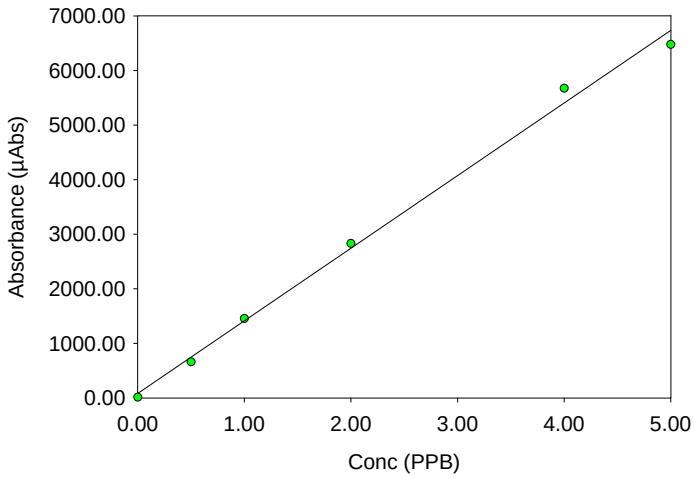
Calibration Data



Int.	58.167
Slope	1343.743
Correlation	0.99723

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	21-Aug-2013, 08:17	0.00	44.10	17.20	1.00	
Standard #1	21-Aug-2013, 08:18	0.50	26.60	664.00	1.00	Q
Standard #2	21-Aug-2013, 08:20	1.00	17.50	1460.00	1.00	
Standard #3	21-Aug-2013, 08:22	2.00	19.40	2840.00	1.00	
Standard #4	21-Aug-2013, 08:24	4.00	16.50	5680.00	1.00	
Standard #5	21-Aug-2013, 08:26	5.00	17.60	6480.00	1.00	

Calibration Data



Int.	84.070
Slope	1330.450
Correlation	0.99776

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICV	21-Aug-2013, 08:29	3.07	17.20	4170.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICB	21-Aug-2013, 08:31	-0.06	12.30	3.67	1.00	

Analyst
Date Started 08/21/2013, 08:33:27
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339889 LCSW45523	21-Aug-2013, 08:33	2.52	42.50	3440.00	1.00	Q
339888 MBW45523	21-Aug-2013, 08:35	-0.06	4.30	1.89	1.00	
337837	21-Aug-2013, 08:37	-0.07	5.95	-6.49	1.00	
MSW337837	21-Aug-2013, 08:39	1.95	50.50	2680.00	1.00	Q
MSDW337837	21-Aug-2013, 08:41	1.92	50.50	2640.00	1.00	Q
PDSW337837	21-Aug-2013, 08:43	1.89	51.90	2600.00	1.00	Q
338440	21-Aug-2013, 08:45	-0.06	16.40	10.40	1.00	
340122 LCSW45534	21-Aug-2013, 08:46	3.16	16.70	4290.00	1.00	
340121 MBW45534	21-Aug-2013, 08:48	-0.06	5.31	8.10	1.00	
339578	21-Aug-2013, 08:50	-0.07	2.78	-7.50	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 08:52	3.03	14.20	4120.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 08:54	-0.05	5.05	17.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339580	21-Aug-2013, 08:56	-0.04	13.50	25.40	1.00	
L339580	21-Aug-2013, 08:58	-0.07	5.38	-2.73	1.00	
DUP339580	21-Aug-2013, 09:00	-0.05	13.80	22.10	1.00	
MSW339580	21-Aug-2013, 09:02	2.00	12.60	2740.00	1.00	
MSDW339580	21-Aug-2013, 09:04	2.03	20.90	2790.00	1.00	Q
PDSW339580	21-Aug-2013, 09:06	2.01	17.90	2760.00	1.00	
339926 LCSW45526	21-Aug-2013, 09:08	2.87	23.50	3900.00	1.00	Q
339925 MBW45526	21-Aug-2013, 09:10	-0.06	9.02	8.67	1.00	
338832	21-Aug-2013, 09:12	-0.07	3.34	-5.39	1.00	
L338832	21-Aug-2013, 09:14	-0.05	7.81	11.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 09:16	2.98	17.90	4050.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 09:18	-0.05	2.09	16.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
DUP338832	21-Aug-2013, 09:20	-0.06	5.82	4.03	1.00	
MSW338832	21-Aug-2013, 09:22	1.87	17.60	2570.00	1.00	
MSDW338832	21-Aug-2013, 09:24	1.92	19.50	2640.00	1.00	
PDSW338832	21-Aug-2013, 09:26	1.99	19.00	2740.00	1.00	
340064 LCSW45531	21-Aug-2013, 09:28	2.95	16.70	4010.00	1.00	
340063 MBW45531	21-Aug-2013, 09:30	-0.06	14.00	7.86	1.00	
339897	21-Aug-2013, 09:31	-0.06	4.18	6.22	1.00	
MSW339897	21-Aug-2013, 09:33	1.99	18.10	2740.00	1.00	
MSDW339897	21-Aug-2013, 09:35	1.81	29.80	2500.00	1.00	Q
PDSW339897	21-Aug-2013, 09:37	0.31	16.50	496.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 09:39	2.82	25.90	3830.00	1.00	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 09:41	-0.05	2.70	19.30	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339870 LCSW45520	21-Aug-2013, 09:43	2.79	18.70	3800.00	1.00	
339869 MBW45520	21-Aug-2013, 09:45	-0.04	14.80	27.10	1.00	
338753	21-Aug-2013, 09:47	0.00	547.00	87.10	1.00	
MSW338753	21-Aug-2013, 09:49	2.04	21.00	2800.00	1.00	Q
MSDW338753	21-Aug-2013, 09:51	2.01	20.70	2760.00	1.00	Q
PDSW338753	21-Aug-2013, 09:53	1.97	19.30	2700.00	1.00	
339445	21-Aug-2013, 09:55	-0.05	6.25	19.80	1.00	
MSW339445	21-Aug-2013, 09:57	2.00	19.70	2740.00	1.00	
MSDW339445	21-Aug-2013, 09:59	2.02	17.40	2780.00	1.00	

Analyst
Date Started 08/21/2013, 10:01:21
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
PDSW339445	21-Aug-2013, 10:01	1.91	19.00	2630.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 10:03	2.95	19.40	4010.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 10:05	-0.06	13.90	7.32	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339447	21-Aug-2013, 10:07	-0.06	8.00	1.52	1.00	
339448	21-Aug-2013, 10:09	-0.05	10.80	12.70	1.00	
339449	21-Aug-2013, 10:11	-0.07	2.86	-4.73	1.00	
339558	21-Aug-2013, 10:13	-0.06	9.03	1.19	1.00	
339921 LCSW45525	21-Aug-2013, 10:15	2.88	19.00	3920.00	1.00	
339920 MBW45525	21-Aug-2013, 10:17	-0.06	2.11	7.26	1.00	
338540	21-Aug-2013, 10:19	-0.06	4.49	-0.26	1.00	
L338540	21-Aug-2013, 10:21	-0.06	6.81	-1.18	1.00	
DUP338540	21-Aug-2013, 10:23	-0.06	5.32	0.67	1.00	
MSW338540	21-Aug-2013, 10:25	2.03	18.60	2780.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 10:26	2.96	20.60	4020.00	1.00	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 10:28	-0.05	1.88	17.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
MSDW338540	21-Aug-2013, 10:30	1.81	20.20	2490.00	1.00	
PDSW338540	21-Aug-2013, 10:32	1.83	31.60	2520.00	1.00	Q
339936 LCSW45528	21-Aug-2013, 10:34	2.79	17.80	3790.00	1.00	
339935 MBW45528	21-Aug-2013, 10:36	-0.05	12.30	18.70	1.00	
339570	21-Aug-2013, 10:38	-0.06	7.76	7.66	1.00	
L339570	21-Aug-2013, 10:40	-0.06	7.55	9.66	1.00	
DUP339570	21-Aug-2013, 10:42	-0.06	9.46	4.12	1.00	
MSW339570	21-Aug-2013, 10:44	2.00	19.10	2740.00	1.00	
MSDW339570	21-Aug-2013, 10:46	2.00	19.70	2750.00	1.00	
PDSW339570	21-Aug-2013, 10:48	1.99	20.80	2740.00	1.00	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 10:50	2.95	19.60	4010.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 10:52	-0.05	3.28	20.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
339931 LCSW45527	21-Aug-2013, 10:54	2.76	18.70	3760.00	1.00	
339930 MBW45527	21-Aug-2013, 10:56	-0.04	8.81	25.60	1.00	
339561	21-Aug-2013, 10:58	-0.06	1.69	3.64	1.00	
L339561	21-Aug-2013, 11:00	-0.05	7.63	11.50	1.00	
DUP339561	21-Aug-2013, 11:02	-0.06	2.81	4.99	1.00	
MSW339561	21-Aug-2013, 11:04	1.85	22.60	2550.00	1.00	Q
MSDW339561	21-Aug-2013, 11:06	1.97	20.30	2710.00	1.00	
PDSW339561	21-Aug-2013, 11:08	1.99	22.30	2730.00	1.00	Q
339916 LCSW45524	21-Aug-2013, 11:10	2.74	19.70	3730.00	1.00	
339915 MBW45524	21-Aug-2013, 11:12	-0.05	10.60	21.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 11:14	2.79	24.80	3790.00	1.00	Q

Analyst
Date Started 08/21/2013, 11:16:24
Worksheet 7470 Water (5ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 11:16	-0.05	2.75	17.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
336370	21-Aug-2013, 11:18	-0.06	2.34	6.72	1.00	
L336370	21-Aug-2013, 11:20	-0.06	10.30	3.52	1.00	
DUP336370	21-Aug-2013, 11:22	-0.06	4.12	0.91	1.00	
MSW336370	21-Aug-2013, 11:24	1.93	22.10	2660.00	1.00	Q
MSDW336370	21-Aug-2013, 11:26	1.92	22.80	2630.00	1.00	Q
PDSW336370	21-Aug-2013, 11:28	1.91	19.40	2630.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCV	21-Aug-2013, 11:30	2.86	25.00	3890.00	1.00	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CCB	21-Aug-2013, 11:32	-0.05	8.68	19.50	1.00	

METALS
RAW DATA
DOCUMENTS

MICP WATER QSM Analytical Run
96853 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	340305							MICP WATER QSM				
				ICV					0			
	340306							MICP WATER QSM				
				ICV					0			
	340307							MICP WATER QSM				
				ICB					0			
	340308							MICP WATER QSM				
				MRL					0			
	340309							MICP WATER QSM				
				ICSA					0			
	340310							MICP WATER QSM				
				ICSAB					0			
	340311							MICP WATER QSM				
				CCV1					0			
	340312							MICP WATER QSM				
				CCV2					0			
	340313							MICP WATER QSM				
				CCB					0			
	339613							ICP TOTAL QSM				
				LCSW					45497			
	339612							ICP TOTAL QSM				
				MBW					45497			
99335	339561		08/15/2013 0930			ECC	RVAAP	ICP TOTAL QSM		GW	**4**	
		083SB-0023-0001-ER							45497			
	340314							ICP TOTAL QSM				
				L	339561				0			
	340315							MICP WATER QSM				
				CCV1					0			
	340316							MICP WATER QSM				
				CCV2					0			
	340317							MICP WATER QSM				
				CCB					0			
	339614		08/15/2013 0930					ICP TOTAL QSM				
		083SB-0023-0001-ER		DUP	339561				45497			
	339615		08/15/2013 0930					ICP TOTAL QSM				
		083SB-0023-0001-ER		MSW	339561				45497			
	339616		08/15/2013 0930					ICP TOTAL QSM				
		083SB-0023-0001-ER		MSDW	339615				45497			

Page 1786

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP WATER QSM Analytical Run
96853 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	340318							ICP TOTAL QSM				
				PDSW	339561				0			
	340319							MICP WATER QSM				
				CCV1					0			
	340320							MICP WATER QSM				
				CCV2					0			
	340321							MICP WATER QSM				
				CCB					0			
	341603							MICP WATER QSM				
				ICV					0			
	341604							MICP WATER QSM				
				ICV					0			
	341605							MICP WATER QSM				
				ICB					0			
	341606							MICP WATER QSM				
				MRL					0			
	341607							MICP WATER QSM				
				ICSA					0			
	341608							MICP WATER QSM				
				ICSAB					0			
	339612							ICP TOTAL QSM				
RERUN 99335	339561		08/15/2013 0930	MBW		ECC	RVAAP	ICP TOTAL QSM	45497	GW	**4**	
RERUN		083SB-0023-0001-ER							45497			
	340314							ICP TOTAL QSM				
RERUN				L	339561				0			
	339614		08/15/2013 0930					ICP TOTAL QSM				
RERUN		083SB-0023-0001-ER		DUP	339561				45497			
	341609							MICP WATER QSM				
				CCV1					0			
	341610							MICP WATER QSM				
				CCV2					0			
	341611							MICP WATER QSM				
				CCB					0			

36 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP WATER QSM K&Na Analytical Run
96854 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	341309							MICP WATER QSM K&Na				
				ICV					0			
	341311							MICP WATER QSM K&Na				
				ICB					0			
	341312							MICP WATER QSM K&Na				
				MRL					0			
	341313							MICP WATER QSM K&Na				
				ICSA					0			
	341314							MICP WATER QSM K&Na				
				ICSAB					0			
	339613							ICP K TOTAL QSM				
				LCSW					45497			
	339613							ICP NA TOTAL QSM				
				LCSW					45497			
	341315							MICP WATER QSM K&Na				
				CCV					0			
	341316							MICP WATER QSM K&Na				
				CCB					0			
	339612							ICP K TOTAL QSM				
				MBW					45497			
	339612							ICP NA TOTAL QSM				
				MBW					45497			
99335	339561	083SB-0023-0001-ER	08/15/2013 0930			ECC	RVAAP	ICP K TOTAL QSM		GW	**4**	
									45497			
99335	339561	083SB-0023-0001-ER	08/15/2013 0930			ECC	RVAAP	ICP NA TOTAL QSM		GW	**4**	
									45497			
	341317							ICP K TOTAL QSM				
				L	339561				0			
	341317							ICP NA TOTAL QSM				
				L	339561				0			
	339614	083SB-0023-0001-ER	08/15/2013 0930					ICP K TOTAL QSM				
				DUP	339561				45497			
	339614	083SB-0023-0001-ER	08/15/2013 0930					ICP NA TOTAL QSM				
				DUP	339561				45497			
	339615	083SB-0023-0001-ER	08/15/2013 0930					ICP K TOTAL QSM				
				MSW	339561				45497			
	339615	083SB-0023-0001-ER	08/15/2013 0930					ICP NA TOTAL QSM				
				MSW	339561				45497			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP WATER QSM K&Na Analytical Run
96854 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	339616		08/15/2013 0930				ICP K TOTAL QSM				
		083SB-0023-0001-ER		MSDW 339615				45497			
	339616		08/15/2013 0930				ICP NA TOTAL QSM				
		083SB-0023-0001-ER		MSDW 339615				45497			
	341318						ICP K TOTAL QSM				
				PDSW 339561				0			
	341318						ICP NA TOTAL QSM				
				PDSW 339561				0			
	341416						MICP WATER QSM K&Na				
				CCV							
	341417						MICP WATER QSM K&Na				
				CCB							

25 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM Analytical Run
96908 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	341152							MERCURY QSM				
				ICV					0			
	341153							MERCURY QSM				
				ICB					0			
	341164							MERCURY QSM				
				CCV					0			
	341165							MERCURY QSM				
				CCB					0			
	339931							MERCURY TOTAL QSM				
				LCSW					45527			
	339930							MERCURY TOTAL QSM				
				MBW					45527			
99335	339561		08/15/2013 0930			ECC	RVAAP	MERCURY TOTAL QSM		GW	**4**	
		083SB-0023-0001-ER							45527			
	341166							MERCURY TOTAL QSM				
				L	339561				0			
	339932		08/15/2013 0930					MERCURY TOTAL QSM				
		083SB-0023-0001-ER		DUP	339561				45527			
	339933		08/15/2013 0930					MERCURY TOTAL QSM				
		083SB-0023-0001-ER		MSW	339561				45527			
	339934		08/15/2013 0930					MERCURY TOTAL QSM				
		083SB-0023-0001-ER		MSDW	339933				45527			
	341167							MERCURY TOTAL QSM				
				PDSW	339561				0			
	341168							MERCURY QSM				
				CCV					0			
	341169							MERCURY QSM				
				CCB					0			

14 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP QSM TCLP/HARDNESS Analytical Run
97082 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	346720							MICP QSM TCLP/HARDNESS				
				ICV					0			
	346721							MICP QSM TCLP/HARDNESS				
				ICV					0			
	346722							MICP QSM TCLP/HARDNESS				
				ICB					0			
	346723							MICP QSM TCLP/HARDNESS				
				MRL					0			
	346724							MICP QSM TCLP/HARDNESS				
				ICSA					0			
	346725							MICP QSM TCLP/HARDNESS				
				ICSAB					0			
	346732							MICP QSM TCLP/HARDNESS				
				CCV1					0			
	346733							MICP QSM TCLP/HARDNESS				
				CCV2					0			
	346734							MICP QSM TCLP/HARDNESS				
				CCB					0			
	340798							ICP QSM TCLP				
				LCSW					45554			
	340797							ICP QSM TCLP				
				MBW					45554			
99335	339578	083SB-0022-0001-IDW	08/15/2013 0835			ECC	RVAAP	ICP QSM TCLP	45554	M	**4**	
99335	339580	083SB-0021-0001-IDW	08/15/2013 0900			ECC	RVAAP	ICP QSM TCLP	45554	M	**4**	
	346735							ICP QSM TCLP				
				L	339580				0			
	340799		08/15/2013 0900					ICP QSM TCLP				
		083SB-0021-0001-IDW		DUP	339580				45554			
	340800		08/15/2013 0900					ICP QSM TCLP				
		083SB-0021-0001-IDW		MSW	339580				45554			
	346736							MICP QSM TCLP/HARDNESS				
				CCV1					0			
	346737							MICP QSM TCLP/HARDNESS				
				CCV2					0			
	346738							MICP QSM TCLP/HARDNESS				
				CCB					0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP QSM TCLP/HARDNESS Analytical Run
97082 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	340801		08/15/2013 0900					ICP QSM TCLP				
		083SB-0021-0001-IDW		MSDW	340800				45554			
	346739							ICP QSM TCLP				
				PDSW	339580				0			
	346740							MICP QSM TCLP/HARDNESS				
				CCV1					0			
	346727							MICP QSM TCLP/HARDNESS				
				CCV2					0			
	346728							MICP QSM TCLP/HARDNESS				
				CCB					0			

24 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM TCLP Analytical Run
96919 on 09/10/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	341013							MERCURY QSM TCLP				
				ICV					0			
	341014							MERCURY QSM TCLP				
				ICB					0			
	340122							MERCURY QSM TCLP				
				LCSW					45534			
	340121							MERCURY QSM TCLP				
				MBW					45534			
99335	339578		08/15/2013 0835			ECC	RVAAP	MERCURY QSM TCLP		M	**4**	
		083SB-0022-0001-IDW							45534			
	341015							MERCURY QSM TCLP				
				CCV					0			
	341016							MERCURY QSM TCLP				
				CCB					0			
99335	339580		08/15/2013 0900			ECC	RVAAP	MERCURY QSM TCLP		M	**4**	
		083SB-0021-0001-IDW							45534			
	341017							MERCURY QSM TCLP				
				L	339580				0			
	340123		08/15/2013 0900					MERCURY QSM TCLP				
		083SB-0021-0001-IDW		DUP	339580				45534			
	340124		08/15/2013 0900					MERCURY QSM TCLP				
		083SB-0021-0001-IDW		MSW	339580				45534			
	340125		08/15/2013 0900					MERCURY QSM TCLP				
		083SB-0021-0001-IDW		MSDW	340124				45534			
	341018							MERCURY QSM TCLP				
				PDSW	339580				0			
	341019							MERCURY QSM TCLP				
				CCV					0			
	341020							MERCURY QSM TCLP				
				CCB					0			

15 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 09/10/2013

Prep Batch **45,497** Date Prepped: 08/16/2013 Prepped By LJF

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	339612	MBW		ICP TOTAL QSM	LIQUID	50		50.0		
	339612	MBW		ICP K TOTAL QSM	LIQUID	50		50.0		
	339612	MBW		ICP NA TOTAL QSM	LIQUID	50		50.0		
	339612	MBW		ICP TOTAL QSM	LIQUID	50		50.0		
	339613	LCSW		ICP TOTAL QSM	LIQUID	50		50.0		
	339613	LCSW		ICP K TOTAL QSM	LIQUID	50		50.0		
	339613	LCSW		ICP NA TOTAL QSM	LIQUID	50		50.0		
99335	339561			ICP TOTAL QSM	GROUND WATER	50		50.0	Y	
	339561			ICP K TOTAL QSM	GROUND WATER	50		50.0	N	
	339561			ICP NA TOTAL QSM	GROUND WATER	50		50.0	N	
	339561			ICP TOTAL QSM	GROUND WATER	50		50.0	Y	
	339614	DUP	339561	ICP TOTAL QSM	GROUND WATER	50		50.0		
	339614	DUP	339561	ICP TOTAL QSM	GROUND WATER	50		50.0		
	339614	DUP	339561	ICP K TOTAL QSM	GROUND WATER	50		50.0		
	339614	DUP	339561	ICP NA TOTAL QSM	GROUND WATER	50		50.0		
	339615	MSW	339561	ICP K TOTAL QSM	GROUND WATER	50		50.0		
	339615	MSW	339561	ICP NA TOTAL QSM	GROUND WATER	50		50.0		
	339615	MSW	339561	ICP TOTAL QSM	GROUND WATER	50		50.0		

PREP WORKSHEET
on 09/10/2013

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial	List	Notes
	339616	MSDW	339615	ICP K TOTAL QSM	GROUND WATER	50		50.0			
	339616	MSDW	339615	ICP NA TOTAL QSM	GROUND WATER	50		50.0			
	339616	MSDW	339615	ICP TOTAL QSM	GROUND WATER	50		50.0			

Notes:_____

Metals Digestion Bench Sheet

(Prep Methods 3010, 3020, 3005, & 3050)

*Matrix: GW

3010= ICP Liquids
3020= GFAA Liquids
3005= Sb Liquids
3050= ICP/GFAA Solids
7060/7740= GFAA, As & Se Liquids

Prep Batch #:	45497
Prep Method:	3010
Analyst:	LJF
Date:	08/16/2013
Start Time:	12:30

Prep Analyst: LJF
Balance ID:

End Date: 08/16/2013
End Time: 17:30

Reagent:	Ref. #
Nitric Acid:	AB.568
Hydrochloric Acid:	AB.569
Hydrogen Peroxide:	

Digestion Tube Lot #: 1208059-6-3139-JF
Block Used: A
Cell Position for Temp. Check: F-4
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 93

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
339612	(MB)			50.0	50
339613	(LCS)			50.0	50
339561				50.0	50
	Comments:				50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
339614	(DUP)			50.0	50
339615	(MS)	Parent Sample		50.0	50
339616	(MSD)	339561		50.0	50
Leave >>	(DUP) if applicable				50
blank	(MS)	Parent Sample			50
if N/A	(MSD)				50

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

MS/MSD Spike Amount (ml)	Spike Ref. #
0.5	M11243
0.5	M11604
0.2	M11542

LCS Spike Amount (ml)	Spike Ref. #
0.5	M11243
0.5	M11604
0.2	M11542

Reviewed By/Date:

PREP WORKSHEET
on 09/10/2013

Prep Batch **45,527** Date Prepped: 08/20/2013 Prepped By LJF

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	339930	MBW		MERCURY TOTAL QSM	LIQUID	25		25.0		
	339931	LCSW		MERCURY TOTAL QSM	LIQUID	25		25.0		
99335	339561			MERCURY TOTAL QSM	GROUND WATER	25		25.0	N	
	339932	DUP	339561	MERCURY TOTAL QSM	GROUND WATER	25		25.0		
	339933	MSW	339561	MERCURY TOTAL QSM	GROUND WATER	25		25.0		
	339934	MSDW	339933	MERCURY TOTAL QSM	GROUND WATER	25		25.0		

Notes:_____

Mercury Digestion Bench Sheet

(Prep Methods 7470A & 7471A)

CCV ID: M11614
ICV/LCSW ID: M11613

*Matrix: GW
Balance ID:

Prep Batch #:	45527
Prep Method:	7470A
Analyst:	LJF
Date:	08/20/2013
Start Time:	09:30

7470A= Hg Liquids
7471A= Hg Solids

End Date: 08/20/2013
End Time: 11:30

Digestion Tube Lot #: 2277737
Block Used: B
Cell Position for Temp. Check: F-6
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 93
Additional KMnO4 added (ml):
Aqua Regia added (ml)
Calibration Stds: M11611

Reagent:	Ref. #
HNO3:	AB.568
H2SO4:	AB.570
NaCl/Hydrox.SO4:	M11593
KMnO4:	M11625
K2S2O8:	M11524
Aqua-Regia:	M11616

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
339930	(MB)			25.0	25
339931	(LCS)			25.0	25
339561				25.0	25
	Comments:				25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
339932	(DUP)			25.0	25
339933	(MS)	Parent Sample		25.0	25
339934	(MSD)	339561		25.0	25
Leave >>	(DUP) if applicable				25
blank	(MS)	Parent Sample			25
if N/A	(MSD)				25

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

A: Spike Amount (ml)	Spike Conc. (ug/L)	Spike Ref. #
0.5	100ug/L	M11612

B: Spike Amount (ml)	Spike Conc. (ug/L)	Spike Ref. #

Reviewed By/Date:

PREP WORKSHEET
on 09/10/2013

Prep Batch **45,554** Date Prepped: 08/23/2013 Prepped By LJF

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	340797	MBW		ICP QSM TCLP	LIQUID	50		50.0		
	340798	LCSW		ICP QSM TCLP	LIQUID	50		50.0		
99335	339578			ICP QSM TCLP	TCLP	50		50.0	Y	
	339580			ICP QSM TCLP	TCLP	50		50.0	Y	
	340799	DUP	339580	ICP QSM TCLP	TCLP	50		50.0		
	340800	MSW	339580	ICP QSM TCLP	TCLP	50		50.0		
	340801	MSDW	340800	ICP QSM TCLP	TCLP	50		50.0		

Notes:_____

Metals Digestion Bench Sheet

(Prep Methods 3010, 3020, 3005, & 3050)

*Matrix: TCLP

3010= ICP Liquids
3020= GFAA Liquids
3005= Sb Liquids
3050= ICP/GFAA Solids
7060/7740= GFAA, As & Se Liquids

Prep Batch #:	45554
Prep Method:	3010
Analyst:	LJF
Date:	08/23/2013
Start Time:	08:00

Prep Analyst: LJF
Balance ID:

End Date: 08/23/2013
End Time: 13:00

Reagent:	Ref. #
Nitric Acid:	AB.568
Hydrochloric Acid:	AB.569
Hydrogen Peroxide:	

Digestion Tube Lot #: 1303205-3180-MB
Block Used: B
Cell Position for Temp. Check: F-6
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 93

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
340797	(MB)			50.0	50
340798	(LCS)			50.0	50
339578				50.0	50
339580	**Comments:**			50.0	50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
340799	(DUP)			50.0	50
340800	(MS)	Parent Sample		50.0	50
340801	(MSD)	339580		50.0	50
Leave >>	(DUP) if applicable				50
blank	(MS)	Parent Sample			50
if N/A	(MSD)				50

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

MS/MSD Spike Amount (ml)	Spike Ref. #
0.2	M11542

LCS Spike Amount (ml)	Spike Ref. #
0.2	M11542

Reviewed By/Date: nah09-09-13

PREP WORKSHEET
on 09/10/2013

Prep Batch **45,534** Date Prepped: 08/20/2013 Prepped By LJF

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	340121	MBW		MERCURY QSM TCLP	LIQUID	25		25.0		
	340122	LCSW		MERCURY QSM TCLP	LIQUID	25		25.0		
99335	339578			MERCURY QSM TCLP	TCLP	25		25.0	N	
	339580			MERCURY QSM TCLP	TCLP	25		25.0	N	
	340123	DUP	339580	MERCURY QSM TCLP	TCLP	25		25.0		
	340124	MSW	339580	MERCURY QSM TCLP	TCLP	25		25.0		
	340125	MSDW	340124	MERCURY QSM TCLP	TCLP	25		25.0		

Notes:_____

Mercury Digestion Bench Sheet

(Prep Methods 7470A & 7471A)

CCV ID: M11614
ICV/LCSW ID: M11613

*Matrix: TCLP
Balance ID:

7470A= Hg Liquids
7471A= Hg Solids

Prep Batch #:	45534
Prep Method:	7470A
Analyst:	LJF
Date:	08/20/2013
Start Time:	09:30

End Date: 08/20/2013
End Time: 11:30
Digestion Tube Lot #: 2277737
Block Used: A
Cell Position for Temp. Check: F-4
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 93
Additional KMnO4 added (ml):
Aqua Regia added (ml)
Calibration Stds: M11611

Reagent:	Ref. #
HNO3:	AB.568
H2SO4:	AB.570
NaCl/Hydrox.SO4:	M11593
KMnO4:	M11625
K2S2O8:	M11524
Aqua-Regia:	M11616

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
340121	(MB)			25.0	25
340122	(LCS)			25.0	25
339578				25.0	25
339580	**Comments:**			25.0	25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
					25
340123	(DUP)			25.0	25
340124	(MS)	Parent Sample		25.0	25
340125	(MSD)	339580		25.0	25
Leave >>	(DUP) if applicable				25
blank	(MS)	Parent Sample			25
if N/A	(MSD)				25

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

A: Spike Amount (ml)	Spike Conc. (ug/L)	Spike Ref. #
0.5	100ug/L	M11612

B: Spike Amount (ml)	Spike Conc. (ug/L)	Spike Ref. #

Reviewed By/Date:

V1396

000 / 6500 Data Review Checklist	Analysis Date: 8-19-13	Data File: DOD results V1392	Date of review:
Std ID: 111650 LIMS #: 96853	Analyst: ~~XX~~ MOS	Reviewer:	Approved? Yes No

Audit Trail turned on or Manual Manipulations addressed? ~~Yes~~ / No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)

QC Parameters: 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r> 0.995 / r > 0.998	✓		✓		
2) ICV: ~~90-110%~~ / 95-105%	✓		/		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		/		
4) ICSA: < ABS LOD	✓		/		
5) ICSAB: 80-120%	✓		/		
6) MRL: 70-130% / 80-120%					
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓	✓	✓	✓	Fe- No Sample Reported - Affected. CCV2 fail w/o Ca Sample CLOD OK No report.
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 45497 Dig. Meth. 3010	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	Ca, Fe, Mg > LOD > ½ RL Tl, Mn > LOD < ½ RL
Spiked samples in batch:					
a) 339561 matrix = GW	✓		✓		L invalids Dup invalids
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample# 339561	✓		✓		OK
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					

6000 Data Review Checklist	Analysis Date: 8-23-13	Data File: 082313MS1	Date of review: 9/2/13
ID: 111605 LIMS #: 97082	Analyst: MDS	Reviewer: RJ / MDS	Approved? Yes No
Audit Trail turned on or Manual Manipulations addressed? Yes / No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)			

QC Parameters : 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓	✓	✓	✓	CCV1 failure ok Samples not Reported from Ranking Run
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 45554 Dig. Meth. 3010	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	Ba, Se, Ag >LOD <½RL OK "B"
Spiked samples in batch:					
a) 339580 matrix = M	✓	✓	✓	✓	Dup
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					

LAA / CVAA Data Review checklist		Method: 200.9	7000 series AA	245.1	7470a / 7471a
hentation:	THERMO M SERIES AA		CETAC Hg ANALYZER		
alysis Date: 8/21/13	Data File: 13082100	Date Review: 8-22-13	Analyte: Hg		
Cal Std ID: M11611	LIMS # : 96919	Analyst: LSE	Reviewer:	Approved? Yes	No

Is Audit Trail turned on or Manual Manipulations addressed? Yes / No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)

Calibration Parameters -	YES	NO	YES	NO	Comments:
1) Calibration linearity - r > 0.995	✓		✓		
2) ICV: 90-110% 95-105%	✓		✓		
3) ICB: <IDL / <LOD / <LOQ / <½ RL	✓		✓		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% / 80-120%)	✓		✓		
8) CCV2/CCB2 (CCB: <IDL / <LOD / <LOQ / <½ RL)					
9) CCV3/CCB3					
10) CCV4/CCB4					
11) CCV5/CCB5					
12) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO	Comments:
Prep Batch ID#: 45534 Dig. Meth. 7470A	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD / <2.2X LOD / ≤ ½RL	✓		✓		
Spiked samples in batch:					
a) 339580 matrix = TCLP	✓		✓		L + Dup invalid
b) _____ matrix = _____					
c) _____ matrix = _____					
d) _____ matrix = _____					
e) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample# 339580	✓		✓		
MSA Performed? Yes No					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
d) _____ matrix = _____					
e) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample# _____					
MSA Performed? Yes No					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
d) _____ matrix = _____					
e) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample# _____					
MSA Performed? Yes No					

6500 Data Review Checklist	Analysis Date: 08/20/13	Data File: naK081913 v79	Date of review: 8-22-13
ID: M12267 LIMS #: 96854	Analyst: NAK MW	Reviewer: [illegible]	Approved? Yes No
Audit Trail turned on or Manual Manipulations addressed? Yes No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)			

QC Parameters : 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r > 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 45497 Dig. Meth. 3010	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 334561 matrix = GW	✓		✓		L + Dup invalids
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

AA / CVAA Data Review checklist		Method: 200.9	7000 series AA	245.1	7470a / 7471a
mentation:	THERMO M SERIES AA			CETAC Hg ANALYZER	
alysis Date: 08/21/13	Data File: 13082100	Date Review: 8-27-13		Analyte: Hg	
Cal Std ID: 111611	LIMS # : 96908	Analyst: CSF	Reviewer: JK	Approved? Yes	No

Is Audit Trail turned on or Manual Manipulations addressed? (Yes) No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)

Calibration Parameters -	YES	NO	YES	NO	Comments:
1) Calibration linearity - r > 0.995	✓		✓		
2) ICV: (90-110%) 95-105%	✓		✓		
3) ICB: <IDL / (<LOD) / <LOQ / <½ RL	✓		✓		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% / 80-120%)	✓		✓		
8) CCV2/CCB2 (CCB: <IDL / <LOD / <LOQ / <½ RL)					
9) CCV3/CCB3					
10) CCV4/CCB4					
11) CCV5/CCB5					
12) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 45527 Dig. Meth. 7470A	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD / <2.2X LOD / ≤ ½RL	✓		✓		
Spiked samples in batch:					
a) 339561 matrix = GW	✓		✓		
b)_____ matrix =					
c)_____ matrix =					
d)_____ matrix =					
e)_____ matrix =					
PDS: ±15% / (20%) / 25% Sample# 339561	✓		✓		
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix =					
b)_____ matrix =					
c)_____ matrix =					
d)_____ matrix =					
e)_____ matrix =					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix =					
b)_____ matrix =					
c)_____ matrix =					
d)_____ matrix =					
e)_____ matrix =					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 8-23-13	Data File: 00Results\JH01	Date of review: 9/2/13
Cal Std ID: ICCL605 LIMS #: 97082	Analyst: MDS	Reviewer: RJ / MDS	Approved? (Yes) No
Is Audit Trail turned on or Manual Manipulations addressed? (Yes) No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)			

QC Parameters : 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓	✓	✓	✓	CCV 1 failure OK Samples not Reported from Batch 97082
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO	
Prep Batch ID#: 45554 Dig. Meth. 3010	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	Ba, Se, Ag >LOD < ½RL OK "B"
Spiked samples in batch:					
a) 339580 matrix = M	✓	✓	✓	✓	Dup
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					

CT Laboratories

Mercury Analyzer Instrument Run Log

Instrument ID: Cetac M-6000A

Analysis Date	Start Time	End Time	Analyst	LIMS Run # (s)	Method File ID #	Cal. Std. ID #	Lamp Current (mA)	Analysis Tube Lot #	Comments
08/01/13	07:54	11:00	LSF	96330,96326,96325, 96324,96323	13080100	M111586	12.2	215207	sncl2: M11592
08/01/13	11:54	12:38	LSF	96337	13080101	M111586	12.2	215207	sncl2: M11592
08/06/13	07:52	12:55	LSF	96443,96441,96454,96442, 96456,96455,96445	13080600	M111597	12.2	215207	sncl2: M11603
08/07/13	08:21	09:58	LSF	96461	13080700	M111597	12.2	215207	sncl2: M11603
08/14/13	07:56	10:32	LSF	96705,96706,96691, 96701	13081400	M111611	12.2	215207	sncl2: M11617
08/14/13	11:44	13:29	LSF	96709,96713	13081401	M111611	12.2	215207	sncl2: M11617
08/21/13	08:04	11:32	LSF	96902,96920,96919,96918, 96913,96917,96915,96909,96908	13082100	M111611	12.3	215207	sncl2: M11617
08/22/13	07:31	10:58	LSF	96931,96930,96929	13082200	M111611	12.3	215207	sncl2: M11617
08/28/13	08:18	08:46	LSF	97218	13082800	M111611	12.5	215207	sncl2: M11614
09/3/13	06:02	09:37	LSF	97438,97454,97455,97458, 97462,97463,97434	13083100	M111685	12.5	215207	sncl2: M11691
08/31/13	09:52	12:13	LSF	97475,97478	13083601	M111685	12.5	215207	sncl2: M11691
09/07/13	08:08	11:19	LSF	97679,97680,97681,97682, 97685,97694,97695,97696,97697	13090700	M111685	12.5	215207	sncl2: M11691

Reviewed By/Date:_____

TCLP/SPLP/ASTM Extraction Summary

Batch: 23614 Date: 8-19-13 Analyst (set up): [signature] Analyst (take down): [signature]

Sample #	Parameter	Test			Vessel / ZHE	Buffer Determination			Sample wt.	**Free Liquids Present (Y/N)	Vol. Ext. Fluid	Initial pH	ZHE Initial Press	Time In	Date / Time Out	Ext. Time	End pH	ZHE End Press	Date / Time Filtered	Volume Filtered
	(M / SV / V / WC)	TCLP	SPLP	ASTM	#	Initial pH	End pH	*Ext. Fluid	(g)		(mL)		(psi)			(hrs)		(psi)		(mL)
339578	M,SV	Y			9G	6.90	1.60	1	100	—	—	4.90	—	14:00	0700 / 8-20-13	K	5.09	—	0800 / 0800	2000
* 339580	M,SV	Y	Marked As		Extracted							@ 8-19-13								
BLK	M,SV	Y			14G	—	—	1	—	—	—	4.90	—	14:00	0700 / 8-20-13	18	4.90	—	0800 / 0800	2000

*Extraction Fluid Used: TCLP #1 Ext. Fluid ID #: M11575 Ext. Fluid pH: 4.88 Ext. Start Temp (°C): 21°C

Ext. End Temp(°C): 21°C Filter Manufacturer: ENV. EXP. Filter Lot #: 9150601 Tumbler Unit #(s): 2

Balance: SVXD2200 pH Meter: Corning 450 Acceptable rotation rate: 30 ±2 rpm Verified Rotation rate: 31 rpm

1N HCL: M11327

M=Metals, SV=Semi Volatiles, V=Volatiles, WC=Wet Chemistry

% Solids Calculation Worksheet

Tare weights (g) | Transfer weights (g) | Separation weights (g) | % Solids Calculations

Sample #	A Filter wt.	B Filtrate Vessel wt.	C Transfer Vessel wt.	D Sample + Transfer Vessel	E Sample wt {D - C}	F Vessel wt. Post Transfer	G Residue wt. {F - C}	H Total Waste Amount {E - G}	I Filtrate Vessel + Filtrate	J Liquid Phase of Sample {I - B}	K Solid Phase of Sample {H - J}	L. % Solids (**) (K/H*100)	M Waste + Filter (Dry) wt. (g)	% Solids (Dry) ({M - A}/H)*100

(**) If Solids = <0.5%, treat filtrate as TCLP extract, if free liquid present use % Solids Calculation Worksheet

339580* Determined to mark as Extracted (preserved liquid) @ 8-19-13

Reviewed By/Date: RD 8/22/13

CT Laboratories Instrument Run Log

Instrument ID: ICP 6000

Date	Time Start/End	Analyst	Method	LIMS# or Sample #	Sequence I.D.	Nebulizer Pressure	Cal Std ID	Wavelenth Check	Comments
7-15-13	0654 / 1349	MDS/NAH	naK	95845, 95822, 95819 95816, 95817, 95743	naK071513	290	M11267	See Journal	v65, 66, 68
7-17-13	0820 / 0904	MDS	naK	95919, 95816, 95898	naK071713	290	M11267	See Journal	v67
7-18-13	0820 / 0920	MDS	naK	95965, 95966, 95954	naK071813	290	M11267	See Journal	v69
7-26-13	0919 / 1040	MDS	naK	96167	K072613	290	M11267	See Journal	v69, v70
7-29-13	1229 / 1251	MDS	naK	96224	K072913	290	M11267	See Journal	v71
7-31-13	1057 / 1121	MDS	naK	96297	naK073113	290	M11267	See Journal	v72
8-02-13	1247 / 1441	MDS	naK	96372, 96381, 96391, 96394	naK080213	290	M11267	See Journal	v73
8.9.13	1224 / 1416	[illegible]	NA, K	96567, 96573, 96591, 96606 96605, 96582, 96582, 96637	N080913	290	M11267	See Journal	v75
8-12-13	1026 / 1041	[illegible]	Na, K	96691	N081213	290	M11267	See Journal	V76
8-14-13 MDS 08/14/13	0846 / 0925	MDS	Na, K	96649, 96639	naK081413	290	M11267	See Journal	v74
8-20-13	0939 / 1148	[illegible]	Na K	96770, 96842, 96843, 96849, 96854, 96856, 96857, 96873, 96877	naK081913	290	M11267	See Journal	v79
8.24.13	1051 / 1249	MDS	As, Pb	97083, 97097	As+Pb082413	250	M11605	See Journal	V15
8.25-13	0759 / 1241	[illegible]	As, Pb	97083, 97102, 97107	As+Pb082513	250	M11605	See Journal	V16, V17
8.26.13	0933 / 1005	MDS	Na, K	97052	naK082613	250	M11267	See Journal	v79
8-27-13	1353 / 2017	MDS	As, Pb	97151, 97152, 97155, 97153, 97158, 97159	As+Pb082713	250	M11605	See Journal	V20
8-28-13	0700 / 2023	[illegible] MDS	As, Pb	97159, 97208, 97209 97221, 97222, 97225, 97227	As+Pb082813	250	M11605	See Journal	V21, V22
8.29.13	1132 / 1702	[illegible] MDS	As, Pb	97297, 98, 97520, 97511 97550, 97301	As+Pb082913	250	M11605	See Journal	V23, V36
8.30.13	0712 / 2221	[illegible] MDS	As, Pb	97299, 97302	As+Pb083013	250	M11605	See Journal	V24, V25, V26, V28
8-31-13	1326 / 2050	MDS NAH	As, Pb	97479, 97477, 97464 97447, 97432, 97431	As+Pb 083113	250	M11605	See Journal	V27
9-1-13	0905 / 1430	[illegible]	As, Pb	97489 97488 97487 94290	As+Pb090113	250	M11605	See Journal	V29 9-3-13 V33 V30, V31, V32
9-3-13	0829 / 1945	[illegible] MDS	As, Pb	97488, 89, 97549, 50 97546, 47	As+Pb090313	250	M11605	See Journal	V34
9-4-13	0713 / 1904	[illegible] MDS	As, Pb	97552, 97563, 64, 65 97553, 97544	As+Pb090413	250	M11605	See Journal	V35
9-5-13	1334 / 2243		As, Pb	97586, 89, 97598, 99 97602, 97560	As+Pb090513	250	M11605	See Journal	V37 V41
9-6-13	0759 / 1409	MDS/NAH	As, Pb	97588, 97589, 97598, 97599, 97603, 97600	As+Pb090613	250	M11605	See Journal	V39
9-6-13	1424 / 2149	MDS/NAH	As Pb	97650, 97614, 97649 97613, 97645, 97641	As+Pb0906136	250	M11605	See Journal	V40, V42, V43, V44
9-7-13	11:13 / 2019	MDS/[illegible]	As, Pb	97714, 15, 97693 97682	As+Pb090713b	250	M11605	See Journal V38	V45, V46

Type	Date/Time	Message	User name	Application	Sequence Name
	08/09/2013 10:50:41	Plasma On	NAH	iTEVA Control Center	
	08/09/2013 10:50:46	Plasma ignition successful	NAH	Analyst	
	08/09/2013 10:51:32	D33534 - Debug:Wavelength check : x = -1.183, y =2.440	NAH	Analyst	
	08/09/2013 12:23:39	Sequence Started	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:23:39	Autosampler Run Started	NAH	Analyst	
	08/09/2013 12:24:02	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:25:02	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:26:00	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:26:59	Running CalibStd-5 (4)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:27:56	Running CalibStd-10 (5)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:28:54	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:29:52	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:30:49	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:31:55	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:33:08	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:34:06	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:35:05	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:36:17	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:37:27	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:38:24	Running lcsw45398 (1)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:39:29	Running mbw45398 (2)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:40:28	Running 335425 (3)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:41:23	Running l335425 (4)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:42:22	Running dup335425 (5)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:43:18	Running msw335425 (6)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:44:22	Running msdw335425 (7)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:45:26	Running pdsw335425 (8)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:46:22	Running 335427 (9)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:47:21	Running 335429 (10)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:48:19	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:49:16	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:50:15	Running 335448 (11)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:51:12	Running lcss45407 (12)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:52:10	Running mbw45407 (13)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:53:09	Running 334525 (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:54:04	Running mss334525 (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:54:59	Running msds334525 (16)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:55:54	Running pdss334525 (17)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:56:48	Running lcsw45411 (18)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:57:53	Running mbw45411 (19)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:58:52	Running 335812 (20)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 12:59:57	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:00:54	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:01:53	Running l335812 (21)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:02:50	Running dup335812 (22)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:03:55	Running msw335812 (23)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:05:08	Running msdw335812 (24)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:06:20	Running pdsw335812 (25)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:07:25	Running 335815 (26)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:08:29	Running lcsw45416/17 (27)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:09:33	Running mbw45416/17 (28)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	08/09/2013 13:10:32	Running 335310 (29)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:11:28	Running MSW335310 (30)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:12:25	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:13:22	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:14:21	Running MSDW335310 (31)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:15:18	Running PDSW335310 (32)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:16:17	Running 335311 (33)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:17:13	Running 335330 (34)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:18:09	Running 335314 (35)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:19:06	Running MSW335314 (36)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:20:10	Running MSDW335314 (37)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:21:23	Running PDSW335314 (38)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:22:18	Running 335715 (39)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:23:14	Running lcsw45415 (40)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:24:19	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:25:16	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:26:15	Running mbw45415 (41)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:27:14	Running 335760 (42)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:28:10	Running l335760 (43)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:29:08	Running dup335760 (44)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:30:04	Running msw335760 (45)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:31:09	Running msdw335760 (46)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:32:13	Running pdsw335760 (47)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:33:10	Running LCSW45392 (48)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:34:14	Running MBW45392 (49)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:35:13	Running 334529 (50)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:36:09	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:37:07	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:38:06	Running MSW334529 (51)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:39:07	Running MSDW334529 (52)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:40:04	Running PDSW334529 (53)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:41:00	Running LCSW45376 (54)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:42:05	Running MBW45376 (55)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:43:04	Running 332235 (56)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:43:58	Running 332236 (57)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:44:54	Running MSW332236 (58)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:45:56	Running MSDW332236 (59)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:47:01	Running PDSW332236 (60)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:47:57	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:48:54	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:49:53	Running 333165 (61)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:50:50	Running 333166 (62)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:51:47	Running LCSS45396 (63)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:52:52	Running MBS45396 (64)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:53:51	Running 334921 (65)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:54:47	Running L334921 (66)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:55:43	Running DUP334921 (67)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:56:39	Running MSS334921 (68)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:57:42	Running MSDS334921 (69)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:58:45	Running PDSS334921 (70)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 13:59:39	Running ccv (14)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	08/09/2013 14:00:36	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:01:36	Running 334929 (71)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:02:39	Running 334930 (72)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:03:39	Running 334931 (73)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:04:42	Running 334932 (74)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:05:36	Running 334933 (75)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:06:39	Running 335812 (76)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:07:36	Running L335812 (77)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:08:34	Running DUP335812 (78)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:09:31	Running MSW335812 (79)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:10:27	Running MSDW335812 (80)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:11:23	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:12:20	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:13:20	Running PDSW335812 (81)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:14:17	Running 335815 (82)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:15:15	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:16:12	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/09/2013 14:17:08	Plasma off	NAH	iTEVA Control Center	
	08/09/2013 14:17:09	Plasma extinguished successfully	NAH	Analyst	
	08/09/2013 14:17:11	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota
	08/12/2013 06:52:50	Plasma On	NAH	iTEVA Control Center	
	08/12/2013 06:52:56	Plasma ignition successful	NAH	Analyst	
	08/12/2013 06:53:42	D33534 - Debug:Wavelength check : x = -1.184, y =2.460	NAH	Analyst	
	08/12/2013 09:46:50	Autosampler Run Started	NAH	Analyst	
	08/12/2013 09:46:50	Sequence Started	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:47:14	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:48:07	E33539 - : Error Updating Method with standard: Standard saturated.	NAH	Analyst	
	08/12/2013 09:48:12	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:49:10	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:50:08	Running CalibStd-5 (4)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:51:06	Running CalibStd-10 (5)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:52:04	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:53:03	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:54:00	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:55:05	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:56:17	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:57:14	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:58:13	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 09:59:25	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:00:35	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:01:32	Running PDSW335812 (1)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:02:29	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:03:27	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:04:24	Plasma off	NAH	iTEVA Control Center	
	08/12/2013 10:04:25	Plasma extinguished successfully	NAH	Analyst	
	08/12/2013 10:04:27	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:19:55	Plasma On	NAH	iTEVA Control Center	
	08/12/2013 10:19:59	Plasma ignition successful	NAH	Analyst	
	08/12/2013 10:20:46	D33534 - Debug:Wavelength check : x = -0.328, y =2.020	NAH	Analyst	
	08/12/2013 10:24:56	Sequence Started	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:24:56	Autosampler Run Started	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/12/2013 10:25:19	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:26:20	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:27:18	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:28:16	Running CalibStd-5 (4)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:29:13	Running CalibStd-10 (5)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:30:11	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:31:09	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:32:06	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:33:12	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:34:23	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:35:21	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:36:20	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:37:32	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:38:42	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:39:39	Running PDSW335812 (1)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:40:36	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:41:33	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/12/2013 10:42:32	Plasma extinguished successfully	NAH	Analyst	
	08/12/2013 10:42:32	Plasma off	NAH	iTEVA Control Center	
	08/12/2013 10:42:34	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota
	08/13/2013 08:21:29	Plasma On	NAH	iTEVA Control Center	
	08/13/2013 08:21:34	Plasma ignition successful	NAH	Analyst	
	08/13/2013 08:22:21	D33534 - Debug:Wavelength check : x = -1.138, y =2.403	NAH	Analyst	
	08/13/2013 11:45:39	Plasma extinguished successfully	NAH	Analyst	
	08/13/2013 11:45:40	Plasma off	NAH	iTEVA Control Center	
	08/14/2013 07:55:35	Plasma On	NAH	iTEVA Control Center	
	08/14/2013 07:55:41	Plasma ignition successful	NAH	Analyst	
	08/14/2013 07:56:27	D33534 - Debug:Wavelength check : x = -1.302, y =2.436	NAH	Analyst	
	08/14/2013 08:14:49	Autosampler Run Started	NAH	Analyst	
	08/14/2013 08:14:49	Sequence Started	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:15:12	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:16:12	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:17:10	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:18:08	Running CalibStd-5 (4)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:19:06	Running CalibStd-10 (5)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:20:04	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:21:03	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:22:00	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:23:05	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:24:16	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:25:14	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:26:13	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:27:26	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:28:35	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:29:33	Running 336999lcss 45430 (1)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:30:31	Running 336998mbs 45430 (2)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:31:28	Running 335708 (3)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:32:26	Running mss335708 (4)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:33:24	Running msds335708 (5)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:34:23	Running pdss335708 (6)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:35:00	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	08/14/2013 08:37:39	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/14/2013 08:39:34	Plasma On	NAH	iTEVA Control Center	
	08/14/2013 08:39:38	Plasma ignition successful	NAH	Analyst	
	08/14/2013 08:40:25	D33534 - Debug:Wavelength check : x = -1.290, y =2.002	NAH	Analyst	
	08/14/2013 08:40:33	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/14/2013 08:41:27	Plasma On	NAH	iTEVA Control Center	
	08/14/2013 08:41:34	E2208 - : Plasma ignition failed; RF seems OK. Check your sample intr	NAH	Analyst	
	08/14/2013 08:41:36	E9013 - : Plasma went out due to the water flow from chiller falling sinc	NAH	iTEVA Control Center	
	08/14/2013 08:42:10	Plasma On	NAH	iTEVA Control Center	
	08/14/2013 08:42:16	Plasma ignition successful	NAH	Analyst	
	08/14/2013 08:43:02	D33534 - Debug:Wavelength check : x = -1.290, y =2.052	NAH	Analyst	
	08/14/2013 08:45:37	Autosampler Run Started	NAH	Analyst	
	08/14/2013 08:45:37	Sequence Started	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:46:00	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:46:27	Closing will close the method and all associated samples.	NAH	Analyst	
	08/14/2013 08:47:00	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:47:58	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:48:56	Running CalibStd-5 (4)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:49:54	Running CalibStd-10 (5)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:50:52	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:51:51	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:52:48	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:53:54	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:55:05	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:56:02	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:57:02	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:58:14	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 08:59:24	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:00:22	Running 336999lcss 45430 (1)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:01:26	Running 336998mbs 45430 (2)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:02:24	Running 335708 (3)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:03:19	Running mss335708 (4)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:04:21	Running msds335708 (5)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:05:24	Running pdss335708 (6)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:06:25	Running 335709 (7)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:07:27	Running 335710 (8)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:08:21	Running 336899lcsw 45422 (9)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:09:25	Running 336898mbw 45422 (10)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:10:25	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:11:22	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:12:22	Running 336376 (11)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:13:18	Running l336376 (12)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:14:15	Running dup336376 (13)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:15:11	Running msw336376 (14)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:16:15	Running msdw336376 (15)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:17:19	Running pdsw336376 (16)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:18:15	Running 336382 (17)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:19:10	Running 336388 (18)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:20:07	Running 336394 (19)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:21:03	Running 336396 (20)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:22:02	Running ccv (14)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	08/14/2013 09:22:59	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:23:58	Running 336398 (21)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:24:54	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:25:52	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:26:46	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota
	08/14/2013 09:45:36	Plasma extinguished successfully	NAH	Analyst	
	08/14/2013 09:45:37	Plasma off	NAH	iTEVA Control Center	
	08/19/2013 12:57:02	iTEVA loaded	NAH	iTEVA Control Center	
	08/19/2013 12:57:20	Connected to instrument 20070314	NAH	iTEVA Control Center	
	08/20/2013 06:43:35	Plasma On	NAH	iTEVA Control Center	
	08/20/2013 06:43:40	Plasma ignition successful	NAH	Analyst	
	08/20/2013 06:44:27	D33534 - Debug:Wavelength check : x = -1.099, y =2.388	NAH	Analyst	
	08/20/2013 09:38:39	Autosampler Run Started	NAH	Analyst	
	08/20/2013 09:38:39	Sequence Started	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:39:03	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:40:06	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:41:08	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:42:06	Running CalibStd-5 (4)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:43:03	Running CalibStd-10 (5)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:44:02	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:45:00	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:45:57	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:47:03	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:48:17	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:49:15	Running icvLL (17)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:50:12	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:51:11	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:52:08	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:53:21	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:54:32	Running lod check1 (1)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:55:30	Running lcsw45498 (2)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:56:33	Running mbw45498 (3)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:57:32	Running 339570 (4)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:58:29	Running l339570 (5)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 09:59:26	Running dup339570 (6)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:00:22	Running msw339570 (7)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:01:27	Running msdw339570 (8)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:02:31	Running pdsw339570 (9)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:03:27	Running lcsw45497 (10)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:04:32	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:05:29	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:06:29	Running mbw45497 (11)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:07:28	Running 339561 (12)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:08:27	Running l339561 (13)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:09:26	Running dup339561 (14)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:10:25	Running msw339561 (15)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:11:30	Running msdw339561 (16)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:12:34	Running pdsw339561 (17)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:13:32	Running lcsw45478/83 (18)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:14:36	Running mbw45478/83 (19)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:15:35	Running 338440 (20)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 10:16:40	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:17:37	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:18:37	Running msw338440 (21)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:19:50	Running msdw338440 (22)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:21:04	Running pdsw338440 (23)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:22:08	Running 338441 (24)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:23:04	Running 338442 (25)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:24:08	Running 338516 (26)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:25:08	Running lcsw45482 (27)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:26:12	Running mbw45482 (28)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:27:11	Running 339932 (29)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:28:07	Running l339932 (30)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:29:04	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:30:01	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:31:00	Running dup339932 (31)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:31:56	Running msw339932 (32)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:33:00	Running msdw339932 (33)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:34:05	Running pdsw339932 (34)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:35:01	Running lcsw45483 (35)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:36:06	Running mbw45483 (36)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:37:05	Running 338540 (37)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:38:01	Running l338540 (38)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:38:58	Running dup338540 (39)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:39:53	Running msw338540 (40)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:40:58	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:41:55	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:42:55	Running msdw338540 (41)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:43:59	Running pdsw338540 (42)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:44:55	Running lcss45471 (43)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:45:53	Running mbs45471 (44)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:46:52	Running 338447 (45)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:47:47	Running mss338447 (46)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:48:42	Running msds338447 (47)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:49:38	Running pdss338447 (48)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:50:34	Running lcsw45496 (49)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:51:38	Running mbw45496 (50)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:52:37	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:53:34	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:54:34	Running 339379 (51)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:55:38	Running msw339379 (52)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:56:51	Running msdw339379 (53)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:58:03	Running pdsw339379 (54)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 10:59:08	Running lcss44510 (55)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:00:11	Running mbs44510 (56)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:01:10	Running 337811 (57)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:02:13	Running 337812 (58)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:03:15	Running 337813 (59)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:04:18	Running 337815 (60)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:05:21	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:06:18	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:07:17	Running l337815 (61)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 11:08:21	Running dup337815 (62)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:09:23	Running mss337815 (63)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:10:26	Running msds337815 (64)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:11:29	Running pdss337815 (65)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:12:32	Running 337818 (66)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:13:34	Running 337820 (67)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:14:37	Running 337822 (68)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:15:40	Running 337824 (69)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:16:43	Running 337826 (70)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:17:45	Running ccv (18)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:18:42	Running ccb (19)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:19:41	Running 337828 (71)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:20:44	Running 337830 (72)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:21:47	Running 337832 (73)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:22:50	Running 337835 (74)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:23:53	Running lcss45512 (75)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:24:56	Running mbs45512 (76)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:25:56	Running 338369 (77)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:26:58	Running l338369 (78)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:28:01	Running dup338369 (79)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:29:04	Running mss338369 (80)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:30:05	Running ccv (18)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:31:03	Running ccb (19)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:32:03	Running msds338369 (81)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:33:06	Running pdss338369 (82)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:34:09	Running 338375 (83)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:35:11	Running lod chk2 (84)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:36:09	Running 338440 (20)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:37:05	Running msw338440 (21)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:38:01	Running msdw338440 (22)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:38:57	Running pdsw338440 (23)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:39:53	Running 338441 (24)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:40:49	Running 339379 (51)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:41:45	Running ccv (18)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:42:43	Running ccb (19)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:43:42	Running msw339379 (52)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:44:38	Running msdw339379 (53)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:45:33	Running pdsw339379 (54)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:46:29	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:47:27	Running ccv (18)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:48:24	Running ccb (19)	NAH	Analyst	S_Sodium and Pota
	08/20/2013 11:49:22	Plasma extinguished successfully	NAH	Analyst	
	08/20/2013 11:49:22	Plasma off	NAH	iTEVA Control Center	
	08/20/2013 11:49:24	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota
	08/23/2013 07:17:59	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 07:18:05	Plasma ignition successful	NAH	Analyst	
	08/23/2013 07:18:51	D33534 - Debug:Wavelength check : x = -1.154, y =2.415	NAH	Analyst	
	08/23/2013 07:27:26	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/23/2013 07:28:22	Plasma ignition successful	NAH	Analyst	
	08/23/2013 07:29:05	D33534 - Debug:Wavelength check : x = -1.254, y =2.401	NAH	Analyst	
	08/23/2013 07:46:02	Plasma ignition successful	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/23/2013 07:46:48	D33534 - Debug:Wavelength check : x = -1.280, y =2.180	NAH	Analyst	
	08/23/2013 07:49:06	Autosampler Run Started	NAH	Analyst	
	08/23/2013 07:49:06	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:49:29	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:49:53	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 07:51:34	Running CalibStd-1 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:51:50	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:52:30	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:52:30	Autosampler Run Started	NAH	Analyst	
	08/23/2013 07:52:53	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:54:55	Running CalibStd-1 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:57:00	Running CalibStd=5 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 07:59:05	Running CalibStd=10 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:01:10	Running CalibStd=20 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:03:15	Running CalibStd=50 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:05:00	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:07:33	Autosampler Run Started	NAH	Analyst	
	08/23/2013 08:07:33	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:07:57	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:10:01	Running CalibStd-1 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:12:05	Running CalibStd=5 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:14:10	Running CalibStd=10 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:16:16	Running CalibStd=50 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:18:21	Running CalibStd=100 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:20:27	Running CalibStd=1000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:22:31	Running CalibStd=10000 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:24:33	Running CalibStd-100k (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:26:35	Running CalibStd=500000 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:28:37	Running CalibStd-1000k (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:30:56	Running ICV1 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:33:00	Running ICV2 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:35:06	Running icvLL (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:37:10	Running icb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:39:15	Running MRL (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:41:21	Running icsa (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:43:25	Running icsab (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:45:27	Running idc1 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:47:29	Running idc2 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:49:32	Running idc3 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:51:34	Running idc4 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:53:36	Running MRL (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:55:41	Running CCV1 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:57:45	Running CCV2 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 08:58:22	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:08:27	D33534 - Debug:Wavelength check : x = -1.120, y =1.972	NAH	Analyst	
	08/23/2013 09:11:19	Auto Peak	NAH	Analyst	
	08/23/2013 09:12:36	Auto Peak	NAH	Analyst	
	08/23/2013 09:13:38	Auto Peak	NAH	Analyst	
	08/23/2013 09:14:37	Autosampler Run Started	NAH	Analyst	
	08/23/2013 09:14:37	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:15:00	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/23/2013 09:15:16	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:15:24	Plasma extinguished successfully	NAH	Analyst	
	08/23/2013 09:15:24	Plasma off	NAH	iTEVA Control Center	
	08/23/2013 09:21:56	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 09:22:01	Plasma ignition successful	NAH	Analyst	
	08/23/2013 09:22:04	E9006 - : Plasma went out unexpectedly; RF reported over current failu	NAH	iTEVA Control Center	
	08/23/2013 09:22:15	E1133 - : Plasma went out during the exposure; please refer to error m	NAH	Analyst	
	08/23/2013 09:22:50	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 09:22:55	Plasma ignition successful	NAH	Analyst	
	08/23/2013 09:23:39	D33534 - Debug:Wavelength check : x = -0.762, y =1.871	NAH	Analyst	
	08/23/2013 09:30:03	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:30:03	Autosampler Run Started	NAH	Analyst	
	08/23/2013 09:30:26	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:32:30	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:34:35	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:36:40	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:38:45	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:40:51	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:42:57	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:44:59	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:47:01	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:49:12	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:51:31	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:53:35	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:55:41	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:57:45	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 09:59:50	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:01:55	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:04:07	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:06:17	Running idc1 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:08:19	Running idc2 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:10:22	Running idc3 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:12:24	Running idc4 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:14:26	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:16:31	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:18:35	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:20:40	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:22:41	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 10:34:31	Plasma off	NAH	iTEVA Control Center	
	08/23/2013 10:34:31	Plasma extinguished successfully	NAH	Analyst	
	08/23/2013 10:41:42	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 10:41:47	Plasma ignition successful	NAH	Analyst	
	08/23/2013 10:42:34	D33534 - Debug:Wavelength check : x = -0.567, y =1.759	NAH	Analyst	
	08/23/2013 10:46:10	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/23/2013 10:47:05	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 10:47:11	Plasma ignition successful	NAH	Analyst	
	08/23/2013 10:47:55	D33534 - Debug:Wavelength check : x = -0.533, y =1.856	NAH	Analyst	
	08/23/2013 11:00:02	E1133 - : Plasma went out during the exposure; please refer to error m	NAH	Analyst	
	08/23/2013 11:00:02	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/23/2013 11:03:54	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 11:04:00	Plasma ignition successful	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/23/2013 11:04:47	D33534 - Debug:Wavelength check : x = -0.484, y =1.879	NAH	Analyst	
	08/23/2013 11:19:13	Torch alignment successfully completed.	NAH	Analyst	
	08/23/2013 11:20:05	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/23/2013 11:20:45	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 11:20:51	Plasma ignition successful	NAH	Analyst	
	08/23/2013 11:21:37	D33534 - Debug:Wavelength check : x = -0.500, y =1.818	NAH	Analyst	
	08/23/2013 11:22:52	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:22:52	Autosampler Run Started	NAH	Analyst	
	08/23/2013 11:23:16	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:25:20	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:27:25	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:28:06	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:28:31	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:28:31	Autosampler Run Started	NAH	Analyst	
	08/23/2013 11:28:54	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:30:56	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:33:01	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:35:06	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:37:12	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:39:17	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:41:23	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:43:22	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:45:24	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:47:40	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:49:07	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:49:25	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/23/2013 11:50:06	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 11:50:13	Plasma ignition successful	NAH	Analyst	
	08/23/2013 11:50:56	D33534 - Debug:Wavelength check : x = -0.493, y =1.772	NAH	Analyst	
	08/23/2013 11:54:37	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:54:37	Autosampler Run Started	NAH	Analyst	
	08/23/2013 11:55:00	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:57:04	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 11:59:09	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:01:14	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:03:19	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:05:24	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:06:39	Closing will close the method and all associated samples.	NAH	Analyst	
	08/23/2013 12:06:49	Closing will close the method and all associated samples.	NAH	Analyst	
	08/23/2013 12:07:31	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:09:33	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:11:34	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:13:44	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:16:03	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:18:07	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:20:12	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:22:17	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:24:22	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:26:27	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:28:39	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:30:49	Running idc mds1 (1)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/23/2013 12:32:52	Running idc mds2 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:34:54	Running idc mds3 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:36:56	Running idc mds4 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:38:59	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:41:04	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:43:08	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:45:13	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/23/2013 12:47:17	Plasma extinguished successfully	NAH	Analyst	
	08/23/2013 12:47:18	Plasma off	NAH	iTEVA Control Center	
	08/23/2013 12:47:19	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 09:20:12	Plasma On	NAH	iTEVA Control Center	
	08/24/2013 09:20:17	Plasma ignition successful	NAH	Analyst	
	08/24/2013 09:21:04	D33534 - Debug:Wavelength check : x = -1.199, y =2.420	NAH	Analyst	
	08/24/2013 10:56:44	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 10:56:44	Autosampler Run Started	NAH	Analyst	
	08/24/2013 10:57:08	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 10:59:12	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:01:16	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:03:22	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:05:27	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:07:33	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:09:39	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:11:41	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:13:43	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:15:54	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:18:12	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:20:16	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:22:21	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:24:26	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:26:31	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:28:37	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:30:47	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:32:57	Running 342494lcss 45587 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:35:01	Running 342493mbs 45587 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:37:06	Running 341806 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:39:05	Running l341806 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:41:07	Running dup341806 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:43:07	Running mss341806 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:45:05	Running msds341806 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:47:04	Running pdss341806 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:49:01	Running 341807 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:51:00	Running 341808 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:53:08	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:55:11	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:57:17	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 11:59:22	Running 341809 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:01:21	Running 341810 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:03:20	Running 341811 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:05:28	Running 341812 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:07:28	Running 341813 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:09:26	Running 341814 (16)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/24/2013 12:11:26	Running 341815 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:13:26	Running 341816 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:15:25	Running 341817 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:17:24	Running 341818 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:19:23	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:21:27	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:23:32	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:25:37	Running 341819 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:27:38	Running 341820 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:29:38	Running 341821 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:31:39	Running 341822 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:33:38	Running 341823 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:35:37	Running 341824 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:37:35	Running 341825 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:39:35	Running 342445lcss 45579 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:41:39	Running 342444mbs 45579 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:43:44	Running 341614 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:45:42	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:47:46	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:49:51	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:51:56	Running 341619 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:53:56	Running 341620 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:56:05	Running 341621 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 12:58:05	Running 341622 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:00:05	Running 341623 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:02:05	Running 341624 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:04:06	Running 341625 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:06:12	Running 341626 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:08:17	Running 341627 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:10:23	Running l341627 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:12:28	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:14:34	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:16:39	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:18:44	Running dup341627 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:20:49	Running mss341627 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:22:54	Running msds341627 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:25:00	Running pdss341627 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:27:05	Running 341628 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:29:11	Running 341629 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:29:29	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/24/2013 13:38:58	Plasma extinguished successfully	NAH	Analyst	
	08/24/2013 13:38:59	Plasma off	NAH	iTEVA Control Center	
	08/25/2013 07:37:14	Plasma On	NAH	iTEVA Control Center	
	08/25/2013 07:37:20	Plasma ignition successful	NAH	Analyst	
	08/25/2013 07:38:07	D33534 - Debug:Wavelength check : x = -1.232, y =2.442	NAH	Analyst	
	08/25/2013 07:52:37	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 07:52:37	Autosampler Run Started	NAH	Analyst	
	08/25/2013 07:53:00	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 07:53:50	Closing will close the method and all associated samples.	NAH	Analyst	
	08/25/2013 07:54:18	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 07:55:12	Autosampler Run Started	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 07:55:12	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 07:55:34	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 07:55:41	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 07:57:14	E9006 - : Plasma went out unexpectedly; RF reported over current failu	NAH	iTEVA Control Center	
	08/25/2013 07:58:05	Plasma On	NAH	iTEVA Control Center	
	08/25/2013 07:58:11	Plasma ignition successful	NAH	Analyst	
	08/25/2013 07:58:58	D33534 - Debug:Wavelength check : x = -1.290, y =2.402	NAH	Analyst	
	08/25/2013 07:59:24	Autosampler Run Started	NAH	Analyst	
	08/25/2013 07:59:24	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 07:59:47	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:01:44	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:03:42	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:05:40	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:07:38	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:07:52	Closing will close the method and all associated samples.	NAH	Analyst	
	08/25/2013 08:08:00	Closing will close the method and all associated samples.	NAH	Analyst	
	08/25/2013 08:09:37	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:11:35	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:13:30	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:15:25	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:17:28	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:19:40	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:21:36	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:23:34	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:25:32	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:27:30	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:29:28	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:31:32	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:33:36	Running 341619 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:35:29	Running 341620 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:37:31	Running 341621 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:39:25	Running 341622 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:41:17	Running 341623 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:43:11	Running 341624 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:45:13	Running 341625 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:47:05	Running 341626 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:48:59	Running 341627 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:50:54	Running l341627 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:52:49	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:54:46	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:56:44	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 08:58:43	Running dup341627 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:00:38	Running mss341627 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:02:30	Running msds341627 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:04:20	Running pdss341627 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:06:11	Running 341628 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:08:04	Running 341629 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:09:56	Running 341630 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:11:50	Running 341631 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:13:44	Running 341632 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:15:37	Running 341633 (50)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 09:17:30	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:19:26	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:21:25	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:23:23	Running 341634 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:23:33	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:25:17	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:25:17	Autosampler Run Started	NAH	Analyst	
	08/25/2013 09:25:40	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:27:35	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:29:33	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:31:31	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:33:29	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:35:28	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:37:27	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:39:23	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:41:18	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:43:21	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:45:32	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:47:29	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:49:27	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:51:25	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:53:23	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:55:21	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:55:34	Closing will close the method and all associated samples.	NAH	Analyst	
	08/25/2013 09:57:25	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 09:59:29	Running 341634 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:01:23	Running 341635 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:03:18	Running 341636 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:05:10	Running 341637 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:07:06	Running l341637 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:09:01	Running dup341637 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:11:05	Running mss341637 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:12:56	Running msds341637 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:14:47	Running pdss341637 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:16:38	Running 342453lcss 45580 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:18:34	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:20:31	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:22:29	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:24:27	Running 342452mbs 45580 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:26:26	Running 341638 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:28:19	Running 341639 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:30:14	Running 341640 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:32:08	Running 341641 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:34:00	Running 341642 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:35:54	Running 341643 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:37:49	Running 341644 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:39:44	Running 341645 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:41:37	Running 341646 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:43:31	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:45:28	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:47:26	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 10:49:25	Running 341647 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:51:27	Running 341648 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:53:20	Running 341649 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:55:13	Running 341650 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:57:08	Running 341651 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 10:59:02	Running 341652 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:00:54	Running 341653 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:02:47	Running 341654 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:04:40	Running 341655 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:06:34	Running 341656 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:08:28	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:10:25	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:12:23	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:14:21	Running 341657 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:16:15	Running l341657 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:18:12	Running dup341657 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:20:07	Running mss341657 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:21:58	Running msds341657 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:23:49	Running pdss341657 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:25:39	Running 342458lcss 45581 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:27:36	Running 342457mbs 45581 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:29:35	Running 341658 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:31:28	Running l341658 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:33:23	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:35:20	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:37:18	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:39:17	Running dup341658 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:41:09	Running mss341658 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:43:01	Running msds341658 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:44:53	Running pdss341658 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:46:43	Running 341659 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:48:36	Running 341660 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:50:30	Running 341661 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:52:32	Running 341662 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:54:26	Running 341663 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:56:30	Running 341664 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 11:58:24	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:00:19	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:02:17	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:04:16	Running 341665 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:06:11	Running 341666 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:08:03	Running 341667 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:09:56	Running 341668 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:11:51	Running 341669 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:13:54	Running 341670 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:15:58	Running 341671 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:17:58	Running 341672 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:19:54	Running 341673 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:21:58	Running 341674 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:23:51	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:25:47	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 12:27:45	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:29:45	Running 341675 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:31:40	Running 341676 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:33:35	Running 341677 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:35:29	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:37:26	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:39:22	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:41:21	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/25/2013 12:43:19	Plasma off	NAH	iTEVA Control Center	
	08/25/2013 12:43:19	Plasma extinguished successfully	NAH	Analyst	
	08/25/2013 12:43:21	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/26/2013 06:39:30	Plasma On	NAH	iTEVA Control Center	
	08/26/2013 06:39:36	Plasma ignition successful	NAH	Analyst	
	08/26/2013 06:40:22	D33534 - Debug:Wavelength check : x = -1.283, y =2.520	NAH	Analyst	
	08/26/2013 09:33:03	Sequence Started	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:33:03	Autosampler Run Started	NAH	Analyst	
	08/26/2013 09:33:26	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:34:26	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:35:25	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:36:23	Running CalibStd-5 (4)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:37:20	Running CalibStd-10 (5)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:38:18	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:39:16	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:40:14	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:41:11	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:42:14	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:43:11	Running icvLL (17)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:44:08	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:45:07	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:46:05	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:47:08	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:48:11	Running 340803lcsw 45555 (1)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:49:14	Running 340802mbw 45555 (2)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:50:12	Running 340167 (3)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:51:08	Running l340167 (4)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:52:04	Running dup340167 (5)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:53:00	Running msw340167 (6)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:54:05	Running msdw340167 (7)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:55:09	Running pdsw340167 (8)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:56:05	Running 340965 (9)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:57:02	Running 340983 (10)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:57:59	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:58:56	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 09:59:55	Running 340989 (11)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 10:00:53	Running 340995 (12)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 10:01:49	Running 340997 (13)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 10:02:48	Running 340999 (14)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 10:03:43	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 10:04:42	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 10:05:38	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	08/26/2013 10:06:33	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	08/26/2013 11:39:34	Plasma off	NAH	iTEVA Control Center	
	08/26/2013 11:39:34	Plasma extinguished successfully	NAH	Analyst	
	08/27/2013 08:48:02	E2209 - : Plasma ignition failed; low ignition current. If the condition per	NAH	Analyst	
	08/27/2013 08:48:51	Plasma On	NAH	iTEVA Control Center	
	08/27/2013 08:48:57	Plasma ignition successful	NAH	Analyst	
	08/27/2013 08:49:44	D33534 - Debug:Wavelength check : x = -1.052, y =2.272	NAH	Analyst	
	08/27/2013 13:53:21	Autosampler Run Started	NAH	Analyst	
	08/27/2013 13:53:21	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 13:53:44	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 13:55:36	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 13:57:28	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 13:59:21	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:01:13	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:03:05	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:04:57	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:06:47	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:08:33	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:10:30	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:12:36	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:14:27	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:16:19	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:18:11	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:20:03	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:21:55	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:23:51	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:25:48	Running 342519lcss 45592 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:27:39	Running 342518mbs 45592 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:29:31	Running 341927 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:31:18	Running 341928 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:33:12	Running 341929 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:34:58	Running 341986 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:36:46	Running 341988 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:38:32	Running 341989 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:40:19	Running 341990 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:42:14	Running 341991 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:44:02	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:45:51	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:47:44	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:49:36	Running 341992 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:51:22	Running 341993 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:53:10	Running 341994 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:54:59	Running l341994 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:56:47	Running dup341994 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 14:58:36	Running mss341994 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:00:20	Running msds341994 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:02:05	Running pdss341994 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:03:49	Running 341995 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:05:37	Running 341996 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:07:25	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:09:15	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:11:07	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 15:13:00	Running 341997 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:14:46	Running 341998 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:16:34	Running 341999 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:18:21	Running 342000 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:20:07	Running 342001 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:21:54	Running 342002 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:23:42	Running 342003 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:25:30	Running 342524lcss 45593 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:27:21	Running 342523mbs 45593 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:29:13	Running 342004 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:31:00	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:32:51	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:34:42	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:36:35	Running l342004 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:38:25	Running dup342004 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:40:20	Running mss342004 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:42:04	Running msds342004 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:43:48	Running pdss342004 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:45:32	Running 342005 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:47:25	Running 342006 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:49:19	Running 342007 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:51:15	Running 342008 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:53:10	Running 342009 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:54:56	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:56:47	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 15:58:39	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:00:31	Running 342010 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:02:16	Running 342011 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:04:03	Running 342012 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:05:49	Running 342013 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:07:35	Running 342014 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:09:21	Running 342015 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:11:07	Running 342016 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:12:53	Running 342017 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:14:39	Running 342018 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:16:25	Running 342019 (50)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:18:12	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:20:02	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:21:54	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:23:46	Running 342020 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:25:41	Running 342021 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:27:26	Running 342022 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:29:12	Running 342023 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:31:09	Running 342529lcss 45594 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:32:59	Running 342528mbs 45594 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:34:51	Running 342024 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:36:48	Running 342025 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:38:44	Running 342026 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:40:41	Running 342027 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:42:38	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:44:28	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 16:46:20	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:48:12	Running 342028 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:50:08	Running 342029 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:51:56	Running l342029 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:53:47	Running dup342029 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:55:34	Running mss342029 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:57:19	Running msds342029 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 16:59:04	Running pdss342029 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:00:48	Running 342030 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:02:36	Running 342031 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:04:23	Running 342032 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:06:11	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:08:01	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:09:53	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:11:45	Running 342033 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:13:32	Running 342034 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:15:19	Running 342035 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:17:04	Running 342036 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:18:49	Running 342037 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:20:34	Running 342038 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:22:20	Running 342039 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:24:14	Running 342040 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:26:00	Running 342041 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:27:54	Running 342042 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:29:42	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:31:32	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:33:24	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:35:16	Running 342043 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:37:01	Running 343095lcss 45599 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:38:52	Running 343094mbs 45599 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:40:44	Running 342044 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:42:30	Running 342045 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:44:26	Running 342046 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:46:11	Running 342047 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:47:59	Running 342048 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:49:45	Running 342049 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:51:30	Running 342050 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:53:17	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:55:07	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:56:59	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 17:58:51	Running 342051 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:00:39	Running 342052 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:02:26	Running l342052 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:04:17	Running dup342052 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:06:04	Running mss342052 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:07:49	Running msds342052 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:09:33	Running pdss342052 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:11:18	Running 342563 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:13:04	Running 342564 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:14:49	Running 342565 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:16:36	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 18:18:27	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:20:18	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:22:11	Running 342566 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:23:56	Running 342567 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:25:42	Running 342568 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:27:28	Running 342569 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:29:13	Running 342570 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:31:00	Running 342571 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:32:48	Running 342572 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:34:36	Running 342573 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:36:21	Running 343100lcss 45600 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:38:12	Running 343099mbs 45600 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:40:04	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:41:54	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:43:46	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:45:38	Running 342574 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:47:23	Running 342575 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:49:10	Running 342576 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:50:55	Running 342577 (114)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:52:40	Running 342578 (115)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:54:25	Running 342579 (116)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:56:19	Running 342580 (117)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:58:10	Running 342581 (118)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 18:59:56	Running 342582 (119)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:01:42	Running l342582 (120)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:03:33	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:05:23	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:07:15	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:09:07	Running dup342582 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:10:54	Running mss342582 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:12:39	Running msds342582 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:14:23	Running pdss342582 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:16:08	Running 342583 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:17:55	Running 342584 (126)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:19:40	Running 342585 (127)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:21:27	Running 342586 (128)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:23:14	Running 342587 (129)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:25:01	Running 342588 (130)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:26:48	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:28:38	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:30:30	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:32:22	Running l342588 (131)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:34:13	Running dup342588 (132)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:36:00	Running mss342588 (133)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:37:44	Running msds342588 (134)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:39:29	Running pdss342588 (135)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:41:13	Running 342589 (136)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:42:59	Running 342590 (137)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:44:46	Running 342591 (138)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:46:31	Running 342592 (139)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:48:17	Running 342593 (140)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 19:50:02	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:51:52	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:53:44	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:55:36	Running 343109lcss 45601 (141)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:57:27	Running 343108mbs 45601 (142)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 19:59:19	Running 342594 (143)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:01:04	Running 342595 (144)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:02:51	Running 342596 (145)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:04:38	Running 342597 (146)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:06:24	Running 342598 (147)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:08:11	Running 342599 (148)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:09:57	Running 342600 (149)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:11:43	Running 342601 (150)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:13:28	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:15:17	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:17:09	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:19:01	Running 342602 (151)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:20:47	Running 342603 (152)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:22:33	Running 342604 (153)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:24:27	Running 342605 (154)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:26:18	Running 342606 (155)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:28:03	Running 342607 (156)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:29:50	Running 342608 (157)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:31:35	Running 342609 (158)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:33:21	Running l342609 (159)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:35:08	Running dup342609 (160)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:36:53	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:38:42	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:40:35	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:42:27	Running mss342609 (161)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:44:11	Running msds342609 (162)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:45:55	Running pdss342609 (163)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:47:40	Running 342610 (164)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:49:26	Running 342611 (165)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:51:20	Running 342612 (166)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:53:06	Running 342613 (167)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:54:54	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:56:47	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 20:58:37	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 21:00:29	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/27/2013 21:02:21	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:30:00	Autosampler Run Started	NAH	Analyst	
	08/28/2013 09:30:00	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:30:18	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:32:10	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:34:02	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:35:54	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:37:46	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:39:38	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:41:30	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:43:18	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 09:45:06	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:47:03	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:49:08	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:51:00	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:52:50	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:54:41	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:56:33	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 09:58:25	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:00:22	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:02:19	Running 342602 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:04:05	Running 342603 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:05:52	Running 342604 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:07:47	Running 342605 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:09:42	Running 342606 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:11:28	Running 342607 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:13:15	Running 342608 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:15:00	Running 342609 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:16:47	Running l342609 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:18:34	Running dup342609 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:20:26	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:22:16	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:24:08	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:26:00	Running mss342609 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:27:44	Running msds342609 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:29:28	Running pdss342609 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:31:12	Running 342610 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:32:58	Running 342611 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:34:52	Running 342612 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:36:38	Running 342613 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:38:26	Running 343175lcss 45608 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:40:16	Running 343174mbs 45608 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:42:08	Running 342734 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:43:55	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:45:45	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:47:37	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:49:29	Running 342735 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:51:16	Running 342736 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:53:04	Running 342737 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:54:52	Running l342737 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:56:41	Running dup342737 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 10:58:27	Running mss342737 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:00:11	Running msds342737 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:01:55	Running pdss342737 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:03:39	Running 342738 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:05:26	Running l342738 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:07:16	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:09:06	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:10:58	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:12:51	Running dup342738 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:14:37	Running mss342738 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:16:21	Running msds342738 (33)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 11:18:05	Running pdss342738 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:19:49	Running 342739 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:21:36	Running 342740 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:23:21	Running 342741 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:25:09	Running 342742 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:26:56	Running 342743 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:28:42	Running 342744 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:30:37	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:32:27	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:34:20	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:36:12	Running 342745 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:38:07	Running 342746 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:39:53	Running 342747 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:41:41	Running 342748 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:43:36	Running 342749 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:45:24	Running 342750 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:47:12	Running 342751 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:48:59	Running 342752 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:50:46	Running 342753 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:52:42	Running 343183lcss 45609 (50)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:54:33	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:56:23	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 11:58:15	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:00:07	Running 343182mbs 45609 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:01:59	Running 342754 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:03:46	Running l342754 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:05:36	Running dup342754 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:07:24	Running mss342754 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:09:08	Running msds342754 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:10:52	Running pdss342754 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:12:36	Running 342755 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:14:23	Running 342756 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:16:10	Running 342757 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:17:56	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:19:47	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:21:38	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:23:30	Running 342758 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:23:45	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:50:42	Autosampler Run Started	NAH	Analyst	
	08/28/2013 12:50:42	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:51:00	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:52:50	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:54:42	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:56:34	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 12:58:26	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:00:19	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:02:10	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:03:58	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:05:45	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:07:42	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:09:48	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 13:11:39	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:13:29	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:15:21	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:17:14	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:19:06	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:21:03	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:23:00	Running 342758 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:24:48	Running 342759 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:26:35	Running 342788 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:28:23	Running 342789 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:30:09	Running 342790 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:31:56	Running 342791 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:33:51	Running 342792 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:35:46	Running 342793 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:37:40	Running 342794 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:39:27	Running 342795 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:41:14	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:43:04	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:44:56	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:46:48	Running 342796 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:48:35	Running 342797 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:50:30	Running 342798 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:52:16	Running 342799 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:54:04	Running 342800 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:56:00	Running 342801 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:57:46	Running 343188lcss 45610 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 13:59:37	Running 343187mbs 45610 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:01:29	Running 342802 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:03:16	Running 342803 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:05:01	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:06:51	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:08:44	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:10:36	Running 342804 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:12:31	Running 342805 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:14:17	Running 342806 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:16:04	Running 342807 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:17:51	Running 342808 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:19:37	Running 342809 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:21:23	Running l342809 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:23:12	Running dup342809 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:24:59	Running mss342809 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:26:43	Running msds342809 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:28:27	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:30:17	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:32:09	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:34:01	Running pdss342809 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:35:45	Running 342810 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:37:30	Running 342811 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:39:15	Running 342812 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:41:01	Running 342813 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:42:46	Running 342814 (96)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 14:44:33	Running 342815 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:46:19	Running 342816 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:48:05	Running 342817 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:49:51	Running 342818 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:51:37	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:53:28	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:55:20	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:57:12	Running 342819 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 14:58:58	Running 342820 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:00:46	Running 342821 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:02:41	Running 343193lcss 45611 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:04:32	Running 343192mbs 45611 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:06:24	Running 342822 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:08:19	Running 342823 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:10:08	Running l342823 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:11:57	Running dup342823 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:13:49	Running mss342823 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:15:33	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:17:23	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:19:15	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:21:07	Running msds342823 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:22:57	Running pdss342823 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:24:41	Running 342824 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:26:36	Running 342825 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:28:31	Running 342826 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:30:26	Running 342827 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:32:12	Running 342828 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:33:59	Running 342829 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:35:47	Running 342830 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:37:34	Running 342831 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:39:20	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:41:10	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:43:02	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:44:54	Running 342832 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:46:39	Running 342833 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:48:25	Running 342834 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:50:13	Running 342835 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:51:58	Running 342836 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:53:43	Running 342837 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:55:36	Running 342838 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:57:21	Running 342839 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 15:59:08	Running 342840 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:01:03	Running 342841 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:02:48	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:04:38	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:06:31	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:08:23	Running 343691lcss 45614 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:10:13	Running 343690mbs 45614 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:12:06	Running 342842 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:13:51	Running 342843 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:15:37	Running 342844 (32)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 16:17:22	Running 342845 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:19:07	Running 342846 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:20:52	Running 342847 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:22:37	Running 342848 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:24:22	Running 342849 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:26:07	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:27:57	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:29:49	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:31:41	Running 342850 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:33:28	Running 342851 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:35:13	Running 342852 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:37:08	Running 342853 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:39:00	Running l342853 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:40:48	Running dup342853 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:42:34	Running mss342853 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:44:26	Running msds342853 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:46:10	Running pdss342853 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:47:54	Running 343288 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:49:42	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:51:32	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:53:24	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:55:17	Running 343289 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:57:02	Running 343290 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 16:58:47	Running 343291 (50)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:00:32	Running 343292 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:02:17	Running 343293 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:04:02	Running 343294 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:05:56	Running 343295 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:07:51	Running 343701lcss 45615 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:09:42	Running 343700mbs 45615 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:11:34	Running 343296 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:13:29	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:15:19	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:17:11	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:19:03	Running 343297 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:20:50	Running 343298 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:22:45	Running 343299 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:24:39	Running 343300 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:26:27	Running 343301 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:28:13	Running 343302 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:29:59	Running 343303 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:31:46	Running 343304 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:33:32	Running 343305 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:35:18	Running 343306 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:37:05	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:38:55	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:40:47	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:42:39	Running 343307 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:44:26	Running 343308 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:46:12	Running l343308 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:48:03	Running dup343308 (114)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 17:49:50	Running mss343308 (115)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:51:34	Running msds343308 (116)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:53:17	Running pdss343308 (117)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:55:01	Running 343309 (118)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:56:48	Running 343310 (119)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 17:58:34	Running 343311 (120)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:00:22	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:02:12	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:04:05	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:05:57	Running 343312 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:07:42	Running 343313 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:09:29	Running 343314 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:11:17	Running 343315 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:13:04	Running lcss45616 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:14:55	Running mbs45616 (126)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:16:47	Running 343316 (127)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:18:35	Running 343317 (128)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:20:23	Running 343318 (129)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:22:08	Running 343319 (130)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:23:56	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:25:46	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:27:38	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:29:31	Running 343320 (131)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:31:17	Running 343321 (132)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:33:05	Running 343322 (133)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:34:52	Running 343323 (134)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:36:40	Running 343324 (135)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:38:28	Running 343325 (136)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:40:13	Running 343326 (137)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:41:58	Running 343327 (138)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:43:45	Running 343328 (139)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:45:30	Running 343329 (140)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:47:16	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:49:06	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:50:59	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:52:51	Running 343330 (141)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:54:37	Running l343330 (142)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:56:26	Running dup343330 (143)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:58:12	Running mss343330 (144)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 18:59:56	Running msds343330 (145)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:01:40	Running pdss343330 (146)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:03:24	Running 343331 (147)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:05:11	Unable to Set Check Table, 1	NAH	Analyst	
	08/28/2013 19:05:11	Running 343332 (148)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:07:08	Running 343333 (149)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:09:04	Running 343334 (150)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:10:50	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:12:40	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:14:32	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:16:24	Running 343335 (151)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:18:09	Running lcss45617 (152)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 19:20:00	Running mbs45617 (153)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:21:52	Running 343336 (154)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:23:40	Running 343337 (155)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:25:25	Running 343338 (156)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:27:19	Running 343339 (157)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:29:11	Running 343340 (158)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:30:59	Running 343341 (159)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:32:54	Running 343342 (160)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:34:49	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:36:39	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:38:32	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:40:24	Running 343343 (161)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:42:18	Running 343344 (162)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:44:12	Running 343345 (163)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:46:07	Running 343346 (164)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:47:54	Running 343347 (165)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:49:39	Running 343348 (166)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:51:25	Running 343349 (167)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:53:12	Running 343350 (168)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:54:57	Running 343351 (169)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:56:42	Running 343352 (170)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 19:58:29	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:00:19	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:02:11	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:04:03	Running l343352 (171)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:05:52	Running dup343352 (172)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:07:38	Running mss343352 (173)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:09:22	Running msds343352 (174)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:11:06	Running pdss343352 (175)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:12:50	Running 343353 (176)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:14:38	Running 343356 (177)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:16:24	Running 343357 (178)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:18:09	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:20:01	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:21:51	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:23:43	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/28/2013 20:25:35	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:32:07	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:32:07	Autosampler Run Started	NAH	Analyst	
	08/29/2013 11:32:30	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:34:27	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:36:25	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:38:24	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:40:22	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:42:20	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:44:20	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:46:12	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:48:03	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:50:06	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:52:17	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:54:14	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/29/2013 11:56:10	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 11:58:09	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:00:07	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:02:05	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:04:10	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:06:12	Running 343716lcss 45618 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:08:09	Running 343715mbs 45618 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:10:07	Running 343358 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:12:08	Running 343359 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:14:00	Running 343360 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:15:51	Running 343361 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:17:44	Running l343361 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:19:38	Running dup343361 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:21:31	Running mss343361 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:23:21	Running msds343361 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:25:11	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:27:07	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:29:05	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:31:04	Running pdss343361 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:32:55	Running 343362 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:34:48	Running 343363 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:36:39	Running 343364 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:38:31	Running 343365 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:40:24	Running 343366 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:42:15	Running 343367 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:44:07	Running 343368 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:45:57	Running 343369 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:47:50	Running 343370 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:49:41	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:51:38	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:53:36	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:55:35	Running 343371 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:57:28	Running 343372 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 12:59:20	Running 343373 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:01:13	Running 343374 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:03:05	Running l343374 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:05:02	Running dup343374 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:06:55	Running mss343374 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:08:45	Running msds343374 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:10:35	Running pdss343374 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:12:25	Running 343375 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:14:17	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:16:14	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:18:12	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:20:11	Running 343376 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:22:04	Running 343377 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:23:57	Running 343724lcss 45619 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:25:55	Running 343723mbs 45619 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:27:54	Running 343378 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:29:54	Running 343379 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:31:45	Running 343380 (37)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/29/2013 13:33:38	Running 343381 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:35:29	Running 343382 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:37:22	Running 343383 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:39:14	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:41:11	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:43:09	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:45:07	Running l343383 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:47:02	Running dup343383 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:48:55	Running mss343383 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:50:45	Running msds343383 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:52:35	Running pdss343383 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:54:25	Running 343384 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:56:17	Running 343385 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 13:58:10	Running 343386 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:00:03	Running 343387 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:01:56	Running 343388 (50)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:03:57	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:05:53	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:07:52	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:09:50	Running 343389 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:11:50	Running 343390 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:13:51	Running 343391 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:15:43	Running 343392 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:17:34	Running 343393 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:19:27	Running 343394 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:21:19	Running 343395 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:23:11	Running 343396 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:25:04	Running 343397 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:27:06	Running 343729lcss 45620 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:29:02	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:30:58	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:32:57	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:34:56	Running 343728mbs 45620 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:36:55	Running 343398 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:38:47	Running 343399 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:40:39	Running 343400 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:42:32	Running l343400 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:44:30	Running dup343400 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:46:23	Running mss343400 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:48:14	Running msds343400 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:50:04	Running pdss343400 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:51:55	Running 343401 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:53:46	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:55:41	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:57:40	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 14:59:39	Running 343402 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:01:31	Running 343403 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:03:25	Running 343404 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:05:19	Running 343405 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:07:11	Running 343406 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:09:03	Running 343407 (76)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/29/2013 15:10:56	Running 343408 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:12:47	Running 343409 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:14:40	Running 343410 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:16:34	Running 343411 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:18:25	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:20:21	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:22:20	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:24:19	Running 343412 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:26:20	Running 343413 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:28:13	Running 343414 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:30:07	Running 343415 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:32:01	Running 343416 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:33:56	Running 343417 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:35:51	Running 343734lcss 45621 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:37:49	Running 343733mbs 45621 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:39:49	Running 343418 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:41:44	Running l343418 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:43:40	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:45:35	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:47:34	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:49:34	Running dup343418 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:51:29	Running mss343418 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:53:20	Running msds343418 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:55:10	Running pdss343418 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:57:01	Running 343419 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 15:58:56	Running 343420 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:00:58	Running 343421 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:02:50	Running 343422 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:04:42	Running 343423 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:06:34	Running 343424 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:08:34	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:10:29	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:12:28	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:14:27	Running 343425 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:16:20	Running 343426 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:18:22	Running 343427 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:20:15	Running 343428 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:22:09	Running 343429 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:24:04	Running 343430 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:25:59	Running 343431 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:27:52	Running 343432 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:29:44	Running 343433 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:31:36	Running 343434 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:33:36	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:35:32	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:37:31	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:39:30	Running 343435 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:41:23	Running 343436 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:43:15	Running 343437 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:45:10	Running 343747lcss 45623 (114)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:47:07	Running 343746mbs 45623 (115)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/29/2013 16:49:07	Running 343458 (116)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:51:09	Running 343459 (117)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:53:11	Running 343460 (118)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:55:12	Running 343461 (119)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:57:04	Running 343462 (120)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 16:59:04	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:01:01	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:02:59	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:04:59	Running 343463 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:07:01	Running 343464 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:08:54	Running 343465 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:10:46	Running 343466 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:12:39	Running 343467 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:14:34	Running 343468 (126)	NAH	Analyst	S_As & Pb onlyasx(v
	08/29/2013 17:14:35	Failed to run the sample.	NAH	Analyst	
	08/29/2013 17:14:39	Plasma extinguished successfully	NAH	Analyst	
	08/29/2013 17:14:40	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 06:51:09	iTEVA loaded	NAH	iTEVA Control Center	
	08/30/2013 06:51:27	Connected to instrument 20070314	NAH	iTEVA Control Center	
	08/30/2013 06:55:58	Plasma On	NAH	iTEVA Control Center	
	08/30/2013 06:56:05	Plasma ignition successful	NAH	Analyst	
	08/30/2013 06:56:51	D33534 - Debug:Wavelength check : x = -1.311, y =2.560	NAH	Analyst	
	08/30/2013 07:15:26	Autosampler Run Started	NAH	Analyst	
	08/30/2013 07:15:26	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:15:49	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:16:13	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:17:24	Autosampler Run Started	NAH	Analyst	
	08/30/2013 07:17:24	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:17:47	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:19:11	Closing will close the method and all associated samples.	NAH	Analyst	
	08/30/2013 07:19:50	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:21:52	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:23:50	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:25:49	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:27:48	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:29:46	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:31:01	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:01	Unable to Set Check Table, mrl	NAH	Analyst	
	08/30/2013 07:31:01	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:01	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:01	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:02	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:02	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:02	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:02	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:02	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:02	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:03	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:03	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:03	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:03	Unable to Set Check Table, ccv1	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 07:31:03	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:03	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:03	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:03	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:04	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:04	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:04	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:04	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:04	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:04	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:11	Unable to Set Check Table, mrl	NAH	Analyst	
	08/30/2013 07:31:11	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:11	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:11	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:11	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:12	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:12	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:12	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:12	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:12	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:12	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:13	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:13	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:13	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:13	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:13	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:13	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:14	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:14	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:14	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:14	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:14	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:14	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:15	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/30/2013 07:31:15	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/30/2013 07:31:38	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:33:30	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:35:33	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:37:47	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:39:43	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:41:40	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:43:38	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:45:36	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:47:35	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:49:44	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:51:49	Running 343463 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:53:50	Running 343464 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:55:42	Running 343465 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:57:35	Running 343466 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 07:59:36	Running 343467 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:01:29	Running 343468 (126)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 08:03:22	Running l343468 (127)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:05:17	Running dup343468 (128)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:07:10	Running mss343468 (129)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:09:01	Running msds343468 (130)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:10:50	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:12:45	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:14:44	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:16:43	Running pdss343468 (131)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:18:34	Running 343469 (132)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:20:26	Running 343470 (133)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:22:20	Running 343471 (134)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:24:13	Running 343472 (135)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:26:06	Running 343473 (136)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:28:00	Running 343474 (137)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:29:53	Running 343475 (138)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:31:47	Running 343476 (139)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:33:40	Running 343477 (140)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:35:33	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:37:29	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:39:28	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:41:28	Running 343739lcss 45622 (141)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:43:26	Running 343738mbs 45622 (142)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:45:26	Running 343438 (143)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:47:21	Running 343439 (144)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:49:24	Running 343440 (145)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:51:17	Running 343441 (146)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:53:10	Running l343441 (147)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:55:06	Running dup343441 (148)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:56:59	Running mss343441 (149)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 08:58:50	Running msds343441 (150)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:00:39	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:02:36	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:04:34	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:06:34	Running pdss343441 (151)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:08:26	Running 343442 (152)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:10:20	Running 343443 (153)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:12:13	Running 343444 (154)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:14:05	Running 343445 (155)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:15:57	Running 343446 (156)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:18:00	Running 343447 (157)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:19:55	Running l343447 (158)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:21:51	Running dup343447 (159)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:23:44	Running mss343447 (160)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:25:33	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:27:30	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:29:28	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:31:28	Running msds343447 (161)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:33:20	Running pdss343447 (162)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:35:12	Running 343448 (163)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:37:06	Running 343449 (164)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:39:01	Running 343450 (165)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 09:40:55	Running 343451 (166)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:42:49	Running 343452 (167)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:44:42	Running 343453 (168)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:46:36	Running 343454 (169)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:48:29	Running 343455 (170)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:50:21	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:52:18	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:54:17	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:56:17	Running 343456 (171)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 09:58:12	Running 343457 (172)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 10:00:03	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 10:02:00	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 10:03:56	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 10:05:55	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 10:07:49	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:10:59	Autosampler Run Started	NAH	Analyst	
	08/30/2013 11:10:59	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:11:23	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:13:21	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:15:19	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:17:18	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:19:17	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:21:16	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:23:15	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:25:08	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:27:01	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:29:04	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:31:15	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:33:13	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:35:10	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:37:09	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:39:08	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:41:07	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:43:11	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:45:11	Running 343809lcss 45628 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:47:09	Running 343808mbs 45628 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:49:08	Running 343559 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:51:10	Running 343560 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:53:12	Running 343561 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:55:06	Running 343562 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:57:00	Running 343563 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 11:59:00	Running 343564 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:01:01	Running 343565 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:02:55	Running l343565 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:04:52	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:06:49	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:08:48	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:10:47	Running dup343565 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:12:42	Running mss343565 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:14:31	Running msds343565 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:16:21	Running pdss343565 (14)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 12:18:11	Running 343566 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:20:13	Running 343567 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:22:14	Running 343568 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:24:15	Running 343569 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:26:17	Running 343570 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:28:10	Running 343571 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:30:02	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:31:59	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:33:58	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:35:57	Running l343571 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:37:53	Running dup343571 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:39:46	Running mss343571 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:41:37	Running msds343571 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:43:27	Running pdss343571 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:45:17	Running 343572 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:47:11	Running 343573 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:49:05	Running l343573 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:51:02	Running dup343573 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:52:56	Running mss343573 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:54:46	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:56:44	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 12:58:44	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:00:42	Running msds343573 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:02:32	Running pdss343573 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:04:22	Running 343574 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:06:15	Running 343575 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:08:10	Running ccv1 (151)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:10:08	Running ccv2 (152)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:12:09	Running ccb1 (153)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:14:08	Running 343576 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:16:03	Running 343577 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:17:57	Running 343578 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:19:51	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:21:48	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:23:47	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:25:46	Running 343799lcss 45626 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:27:44	Running 343798mbs 45626 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:29:44	Running 343518 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:31:36	Running l343518 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:33:34	Running dup343518 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:35:27	Running mss343518 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:37:17	Running msds343518 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:39:07	Running pdss343518 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:40:57	Running 343519 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:42:49	Running 343520 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:44:40	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:46:36	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:48:35	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:50:34	Running 343521 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:52:27	Running 343522 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:54:19	Running 343523 (50)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 13:56:10	Running 343524 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:58:02	Running 343525 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 13:59:53	Running 343526 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:01:47	Running 343527 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:03:41	Running 343528 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:05:33	Running 343529 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:07:24	Running 343530 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:09:15	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:11:11	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:13:11	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:15:10	Running 343531 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:17:05	Running 343532 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:18:57	Running 343533 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:20:48	Running 343534 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:22:41	Running 343535 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:24:33	Running 343536 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:26:25	Running 343537 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:28:18	Running 343804lcss 45627 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:30:16	Running 343803mbs 45627 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:32:16	Running 343538 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:34:07	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:36:02	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:38:01	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:40:01	Running 343539 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:40:08	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:42:12	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:42:12	Autosampler Run Started	NAH	Analyst	
	08/30/2013 14:42:35	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:44:56	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:46:55	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:48:54	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:50:53	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:51:40	Closing will close the method and all associated samples.	NAH	Analyst	
	08/30/2013 14:52:52	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:54:51	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:56:44	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 14:58:37	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:00:40	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:02:51	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:04:49	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:06:46	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:08:45	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:10:43	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:12:42	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:14:46	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:16:50	Running 343539 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:18:42	Running 343540 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:20:35	Running 343541 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:22:27	Running 343542 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:24:20	Running 343543 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:26:13	Running 343544 (73)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 15:28:05	Running 343545 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:30:05	Running 343546 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:31:57	Running 343547 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:33:50	Running 343548 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:35:50	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:37:46	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:39:45	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:41:44	Running 343549 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:43:37	Running 343550 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:45:38	Running l343550 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:47:32	Running dup343550 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:49:33	Running mss343550 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:51:30	Running msds343550 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:53:21	Running pdss343550 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:55:21	Running 343552 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:57:14	Running 343553 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 15:59:08	Running 343554 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:01:08	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:03:04	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:05:04	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:07:03	Running 343555 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:09:06	Running 343556 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:11:00	Running 343557 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:12:53	Running 343558 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:14:48	Running 343752lcss 45624 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:16:46	Running 343751mbs 45624 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:18:46	Running 343478 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:20:47	Running l343478 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:22:41	Running dup343478 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:24:42	Running mss343478 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:26:41	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:28:37	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:30:37	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:32:36	Running msds343478 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:34:37	Running pdss343478 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:36:35	E9013 - : Plasma went out due to the water flow from chiller falling sinc	NAH	iTEVA Control Center	
	08/30/2013 16:36:37	Failed to run the sample.	NAH	Analyst	
	08/30/2013 16:36:37	Running 343479 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 16:36:41	Plasma extinguished successfully	NAH	Analyst	
	08/30/2013 16:36:42	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 18:33:38	Plasma On	NAH	iTEVA Control Center	
	08/30/2013 18:33:44	Plasma ignition successful	NAH	Analyst	
	08/30/2013 18:34:30	D33534 - Debug:Wavelength check : x = -0.893, y =2.477	NAH	Analyst	
	08/30/2013 18:51:15	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 18:51:15	Autosampler Run Started	NAH	Analyst	
	08/30/2013 18:51:38	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 18:51:46	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 18:55:54	Autosampler Run Started	NAH	Analyst	
	08/30/2013 18:55:54	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 18:56:17	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 18:58:13	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 19:00:10	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:02:08	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:04:07	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:06:05	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:08:04	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:09:57	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:11:48	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:13:51	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:16:03	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:18:00	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:19:56	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:21:55	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:23:53	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:25:51	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:27:55	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:30:00	Running msds343478 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:31:55	Running pdss343478 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:33:58	Running 343479 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:35:54	Running 343480 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:37:56	Running 343481 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:39:57	Running 343482 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:41:50	Running 343483 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:43:43	Running 343484 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:45:37	Running 343485 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:47:40	Running 343486 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:49:31	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:51:27	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:53:25	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:55:24	Running 343487 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:57:18	Running 343488 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 19:59:11	Running 343489 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:01:05	Running 343490 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:02:58	Running 343491 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:04:59	Running 343492 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:07:00	Running 343493 (114)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:08:53	Running 343494 (115)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:10:45	Running 343495 (116)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:12:38	Running 343496 (117)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:14:29	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:16:25	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:18:23	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:20:23	Running 343497 (118)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:22:18	Running 343791lcss 45625 (119)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:24:16	Running 343790mbs 45625 (120)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:26:16	Running 343498 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:28:17	Running 343499 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:30:19	Running 343500 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:32:12	Running 343501 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:34:05	Running 343502 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:35:57	Running 343503 (126)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:37:50	Running 343504 (127)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 20:39:41	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:41:38	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:43:36	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:45:36	Running 343505 (128)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:47:28	Running 343506 (129)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:49:20	Running l343506 (130)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:51:16	Running dup343506 (131)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:53:09	Running mss343506 (132)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:55:01	Running msds343506 (133)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:56:52	Running pdss343506 (134)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 20:58:43	Running 343507 (135)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:00:36	Running 343508 (136)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:02:28	Running 343509 (137)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:04:20	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:06:16	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:08:15	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:10:15	Running 343510 (138)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:12:09	Running 343511 (139)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:14:02	Running 343512 (140)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:15:54	Running l343512 (141)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:17:49	Running dup343512 (142)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:19:42	Running mss343512 (143)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:21:34	Running msds343512 (144)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:23:27	Running pdss343512 (145)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:25:18	Running 343513 (146)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:27:10	Running 343514 (147)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:29:03	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:30:59	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:32:58	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:34:57	Running 343515 (148)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:36:50	Running 343516 (149)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:38:43	Running 343517 (150)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:40:43	Running 343571 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:42:39	Running l343571 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:44:36	Running dup343571 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:46:32	Running mss343571 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:48:27	Running msds343571 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:50:21	Running pdss343571 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:52:15	Running 343572 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:54:09	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:56:05	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 21:58:04	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:00:02	Running 343573 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:01:58	Running l343573 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:03:55	Running dup343573 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:05:50	Running mss343573 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:07:44	Running msds343573 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:09:38	Running pdss343573 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:11:32	Running 343574 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:13:28	Running 343575 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:15:24	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 22:17:21	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:19:16	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:21:15	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/30/2013 22:23:12	Plasma extinguished successfully	NAH	Analyst	
	08/30/2013 22:23:13	Plasma off	NAH	iTEVA Control Center	
	08/30/2013 22:23:15	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 11:18:55	Plasma On	NAH	iTEVA Control Center	
	08/31/2013 11:19:00	Plasma ignition successful	NAH	Analyst	
	08/31/2013 11:19:47	D33534 - Debug:Wavelength check : x = -1.202, y =2.372	NAH	Analyst	
	08/31/2013 13:25:52	Autosampler Run Started	NAH	Analyst	
	08/31/2013 13:25:52	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:26:15	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:28:13	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:30:11	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:32:09	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:34:08	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:36:06	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:38:06	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:39:59	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:41:51	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:43:54	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:46:05	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:48:01	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:49:59	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:51:57	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:53:55	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:55:54	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 13:57:58	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:00:01	Running 344869lcss 45643 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:01:58	Running 344868mbs 45643 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:03:56	Running 343686 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:05:48	Running 343687 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:07:40	Running 344102 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:09:34	Running 344103 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:11:28	Running 344104 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:13:20	Running 344105 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:15:11	Running l344105 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:17:06	Running dup344105 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:18:58	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:20:54	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:22:52	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:24:51	Running mss344105 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:26:42	Running msds344105 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:28:31	Running pdss344105 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:30:21	Running 344106 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:32:15	Running 344107 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:34:06	Running 344108 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:35:58	Running 344109 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:37:51	Running 344110 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:39:45	Running 344111 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:41:37	Running 344112 (20)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/31/2013 14:43:28	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:45:24	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:47:22	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:49:21	Running 344113 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:51:13	Running 344114 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:53:05	Running 344115 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:54:56	Running 344116 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:56:48	Running 344117 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 14:58:40	Running 344118 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:00:32	Running 344119 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:02:23	Running 343840lcss 45633 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:04:20	Running 343839mbs 45633 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:06:19	Running 343666 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:08:19	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:10:15	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:12:14	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:14:12	Running 343667 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:16:15	Running 343668 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:18:09	Running 343669 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:20:12	Running 343670 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:22:16	Running 343671 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:24:09	Running 343672 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:26:10	Running 343673 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:28:04	Running 343674 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:29:58	Running 343675 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:31:51	Running 343676 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:33:52	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:35:49	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:37:47	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:39:46	Running 343677 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:41:47	Running 343678 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:43:40	Running 343679 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:45:31	Running 343680 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:47:23	Running 343681 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:49:15	Running 343682 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:51:08	Running 343683 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:53:00	Running 343684 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:54:51	Running 343685 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:56:42	Running l343685 (50)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 15:58:38	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:00:35	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:02:33	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:04:32	Running dup343685 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:06:24	Running mss343685 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:08:14	Running msds343685 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:10:04	Running pdss343685 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:11:54	Running 343835lcss 45632 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:13:51	Running 343834mbs 45632 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:15:50	Running 343646 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:17:42	Running 343647 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:19:35	Running 343648 (59)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/31/2013 16:21:27	Running 343649 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:23:17	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:25:12	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:27:11	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:29:10	Running 343650 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:31:03	Running 343651 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:33:05	Running 343652 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:34:58	Running 343653 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:36:52	Running 343654 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:38:46	Running 343655 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:40:41	Running 343656 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:42:34	Running 343657 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:44:26	Running 343658 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:46:19	Running 343659 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:48:10	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:50:05	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:52:04	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:54:03	Running 343660 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:55:57	Running 343661 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:57:51	Running 343662 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 16:59:44	Running 343663 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:01:38	Running l343663 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:03:35	Running dup343663 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:05:28	Running mss343663 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:07:19	Running msds343663 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:09:10	Running pdss343663 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:11:00	Running 343664 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:12:52	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:14:48	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:16:47	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:18:46	Running 343665 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:20:40	Running 343830lcss 45631 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:22:38	Running 343829mbs 45631 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:24:37	Running 343626 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:26:30	Running 343627 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:28:23	Running 343628 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:30:18	Running 343629 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:32:10	Running 343630 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:34:12	Running 343631 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:36:05	Running 343632 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:38:05	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:40:01	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:42:00	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:43:59	Running 343633 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:45:52	Running 343634 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:47:54	Running 343635 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:49:48	Running 343636 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:51:48	Running 343637 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:53:49	Running 343638 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:55:44	Running 343639 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 17:57:44	Running 343640 (98)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/31/2013 17:59:46	Running 343641 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:01:48	Running 343642 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:03:39	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:05:35	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:07:33	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:09:32	Running l343642 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:11:29	Running dup343642 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:13:23	Running mss343642 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:15:14	Running msds343642 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:17:05	Running pdss343642 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:18:55	Running 343643 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:20:48	Running 343644 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:22:42	Running 343645 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:24:36	Running 343825lcss 45630 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:26:34	Running 343824mbs 45630 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:28:33	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:30:29	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:32:28	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:34:27	Running 343599 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:36:21	Running l343599 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:38:19	Running dup343599 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:40:13	Running mss343599 (114)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:42:04	Running msds343599 (115)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:43:55	Running pdss343599 (116)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:45:46	Running 343600 (117)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:47:39	Running 343601 (118)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:49:40	Running 343602 (119)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:51:33	Running 343603 (120)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:53:33	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:55:30	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:57:28	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 18:59:27	Running 343604 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:01:20	Running 343605 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:03:14	Running 343606 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:05:09	Running 343607 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:07:03	Running 343608 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:08:56	Running 343609 (126)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:10:50	Running 343610 (127)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:12:45	Running 343611 (128)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:14:41	Running 343612 (129)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:16:36	Running 343613 (130)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:18:29	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:20:26	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:22:24	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:24:24	Running 343614 (131)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:26:19	Running 343615 (132)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:28:14	Running 343623 (133)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:30:06	Running 343624 (134)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:32:00	Running 343625 (135)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:33:55	Running 343820lcss 45629 (136)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:35:54	Running 343819mbs 45629 (137)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	08/31/2013 19:37:54	Running 343579 (138)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:39:47	Running l343579 (139)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:41:45	Running dup343579 (140)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:43:41	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:45:37	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:47:36	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:49:36	Running mss343579 (141)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:51:36	Running msds343579 (142)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:53:35	Running pdss343579 (143)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:55:26	Running 343580 (144)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:57:22	Running 343581 (145)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 19:59:17	Running 343582 (146)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:01:11	Running 343583 (147)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:03:15	Running 343584 (148)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:05:11	Running 343585 (149)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:07:13	Running 343586 (150)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:09:14	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:11:10	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:13:08	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:15:08	Running 343587 (151)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:17:05	Running 343588 (152)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:19:00	Running 343589 (153)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:20:55	Running 343590 (154)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:22:51	Running 343591 (155)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:24:45	Running 343592 (156)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:26:41	Running 343593 (157)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:28:37	Running 343594 (158)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:30:32	Running 343595 (159)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:32:27	Running 343596 (160)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:34:23	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:36:20	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:38:19	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:40:19	Running 343597 (161)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:42:15	Running 343598 (162)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:44:08	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:46:08	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:48:05	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:50:04	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	08/31/2013 20:52:02	Plasma off	NAH	iTEVA Control Center	
	08/31/2013 20:52:03	Plasma extinguished successfully	NAH	Analyst	
	08/31/2013 20:52:05	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 07:11:59	Plasma On	NAH	iTEVA Control Center	
	09/01/2013 07:12:04	Plasma ignition successful	NAH	Analyst	
	09/01/2013 07:12:51	D33534 - Debug:Wavelength check : x = -1.273, y =2.518	NAH	Analyst	
	09/01/2013 09:24:48	Autosampler Run Started	NAH	Analyst	
	09/01/2013 09:24:48	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:25:11	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:27:09	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:29:07	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:31:06	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:33:05	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/01/2013 09:35:04	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:37:03	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:38:56	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:40:48	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:42:50	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:45:02	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:46:58	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:48:56	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:50:53	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:52:52	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:54:51	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:56:55	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 09:58:57	Running lcss45644 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:00:55	Running mbs45644 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:02:54	Running 344120 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:04:48	Running l344120 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:06:44	Running dup344120 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:08:38	Running mss344120 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:10:29	Running msds344120 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:12:18	Running pdss344120 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:14:09	Running 344121 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:16:01	Running 344122 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:17:52	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:19:48	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:21:47	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:23:47	Running 344123 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:25:40	Running 344124 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:27:32	Running 344125 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:29:23	Running 344126 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:31:16	Running 344127 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:33:07	Running 344128 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:35:07	Running 344129 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:37:07	Running 344130 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:38:58	Running 344131 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:40:49	Running 344132 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:42:40	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:44:36	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:46:35	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:48:34	Running 344133 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:50:27	Running 344134 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:52:20	Running 344135 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:54:15	Running 344136 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:56:09	Running 344137 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 10:58:09	Running 344138 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:00:02	Running 344139 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:01:56	Running lcss45645 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:03:54	Running mbs45645 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:05:53	Running 344140 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:07:46	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:09:42	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:11:41	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/01/2013 11:13:40	Running 344141 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:15:33	Running 344142 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:17:26	Running 344143 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:19:26	Running 344144 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:21:18	Running l344144 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:23:15	Running dup344140 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:25:08	Running mss344140 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:26:59	Running msds344140 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:28:48	Running pdss344140 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:30:39	Running 344145 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:32:30	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:34:26	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:36:25	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:38:23	Running 344146 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:40:16	Running 344147 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:42:16	Running 344148 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:44:10	Running 344149 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:46:04	Running 344150 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:48:07	Running 344151 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:50:10	Running 344152 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:52:14	Running 344153 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:54:17	Running 344154 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:56:08	Running 344155 (50)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:58:00	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 11:59:57	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:01:55	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:03:54	Running 344156 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:05:47	Running 344157 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:07:50	Running 344158 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:09:52	Running 344159 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:11:46	Running lcss45646 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:13:44	Running mbs45646 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:15:42	Running 344160 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:17:35	Running 344161 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:19:27	Running 344162 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:21:19	Running 344163 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:23:17	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:25:13	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:27:12	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:29:11	Running 344164 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:31:12	Running 344165 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:33:05	Running 344166 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:34:58	Running l344166 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:36:53	Running dup344166 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:38:54	Running mss344166 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:40:53	Running msds344166 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:42:52	Running pdss344166 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:44:51	Running 344167 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:46:53	Running 344168 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:48:45	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:50:41	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/01/2013 12:52:40	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:54:39	Running 344169 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:56:33	Running 344170 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 12:58:34	Running 344171 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:00:36	Running 344172 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:02:30	Running 344173 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:04:22	Running 344174 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:06:24	Running 344175 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:08:16	Running 344176 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:10:07	Running 344177 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:11:59	Running 344178 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:13:51	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:15:47	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:17:47	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:19:46	Running 344179 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:21:39	Running lcss45647 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:23:38	Running mbs45647 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:25:37	Running 344180 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:27:31	Running 344181 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:29:25	Running 344182 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:31:26	Running 344183 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:33:27	Running 344184 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:35:20	Running 344185 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:37:12	Running 344186 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:39:03	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:40:58	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:42:58	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:44:57	Running l344186 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:46:55	Running dup344186 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:48:48	Running mss344186 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:50:39	Running msds344186 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:52:29	Running pdss344186 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:54:20	Running 344187 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:56:13	Running 344188 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 13:58:07	Running 344189 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:00:02	Running 344190 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:01:54	Running 344191 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:03:46	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:05:42	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:07:41	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:09:40	Running 344192 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:11:34	Running 344193 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:13:27	Running 344194 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:15:19	Running 344195 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:17:13	Running 344196 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:19:06	Running 344197 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:20:59	Running 344198 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:22:55	Running 344199 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:24:48	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:26:47	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:28:43	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/01/2013 14:30:42	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/01/2013 14:32:40	Plasma extinguished successfully	NAH	Analyst	
	09/01/2013 14:32:40	Plasma off	NAH	iTEVA Control Center	
	09/01/2013 14:32:42	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 06:40:29	Plasma On	NAH	iTEVA Control Center	
	09/03/2013 06:40:35	Plasma ignition successful	NAH	Analyst	
	09/03/2013 06:41:22	D33534 - Debug:Wavelength check : x = -1.220, y =2.472	NAH	Analyst	
	09/03/2013 07:29:33	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	09/03/2013 07:35:27	Plasma ignition successful	NAH	Analyst	
	09/03/2013 07:36:10	Plasma On	NAH	iTEVA Control Center	
	09/03/2013 07:36:13	D33534 - Debug:Wavelength check : x = -1.290, y =2.034	NAH	Analyst	
	09/03/2013 08:06:28	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	09/03/2013 08:07:31	Plasma On	NAH	iTEVA Control Center	
	09/03/2013 08:07:37	Plasma ignition successful	NAH	Analyst	
	09/03/2013 08:08:23	D33534 - Debug:Wavelength check : x = -1.260, y =1.960	NAH	Analyst	
	09/03/2013 12:22:38	iTEVA loaded	NAH	iTEVA Control Center	
	09/03/2013 12:22:56	Connected to instrument 20070314	NAH	iTEVA Control Center	
	09/03/2013 12:23:33	Plasma On	NAH	iTEVA Control Center	
	09/03/2013 13:21:47	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:21:47	Autosampler Run Started	NAH	Analyst	
	09/03/2013 13:22:10	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:24:08	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:26:06	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:28:04	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:30:03	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:32:02	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:34:01	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:35:55	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:37:46	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:39:49	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:42:01	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:43:57	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:45:55	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:47:53	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:49:52	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:51:51	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:53:55	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:55:58	Running 344141 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:57:51	Running 344142 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 13:59:46	Running 344143 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:01:39	Running 344144 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:03:36	Running l344144 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:05:33	Running dup344140 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:07:29	Running mss344140 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:09:24	Running msds344140 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:11:18	Running pdss344140 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:13:13	Running 344145 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:15:08	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:17:05	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:19:03	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:21:02	Running 344146 (41)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/03/2013 14:22:56	Running 344147 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:24:50	Running 344148 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:26:45	Running 344149 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:28:39	Running 344150 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:30:35	Running 344151 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:32:31	Running 344152 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:34:26	Running 344153 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:36:21	Running 344154 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:38:15	Running 344155 (50)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:40:09	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:42:05	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:44:03	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:46:02	Running 344156 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:47:57	Running 344157 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:50:00	Running 344158 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:52:04	Running 344159 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:54:00	Running lcss45646 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:55:57	Running mbs45646 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:57:57	Running 344160 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 14:59:50	Running 344161 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:01:44	Running 344162 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:03:38	Running 344163 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:05:40	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:07:37	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:09:35	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:11:33	Running 344904lcss 45650 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:13:31	Running 344903mbs 45650 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:15:30	Running 344266 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:17:31	Running 344267 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:19:31	Running 344268 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:21:31	Running 344269 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:23:31	Running 344270 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:25:33	Running 344271 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:27:24	Running 344272 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:29:17	Running 344273 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:31:08	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:33:04	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:35:03	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:37:02	Running 344274 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:38:55	Running 344275 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:40:47	Running 344276 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:42:38	Running 344277 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:44:30	Running 344278 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:46:22	Running 344279 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:48:14	Running 344280 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:50:07	Running l344280 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:52:02	Running dup344280 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:53:55	Running mss344280 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:55:45	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:57:42	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 15:59:40	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/03/2013 16:01:40	Running msds344280 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:03:31	Running pdss344280 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:05:21	Running 344281 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:07:13	Running 344282 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:09:05	Running 344283 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:10:58	Running 344284 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:12:51	Running 344285 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:14:44	Running 344909lcss 45651 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:16:42	Running 344908mbs 45651 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:18:41	Running 344286 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:20:32	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:22:28	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:24:27	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:26:27	Running 344287 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:28:18	Running 344288 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:30:10	Running 344289 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:32:12	Running 344290 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:34:14	Running 344291 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:36:17	Running 344292 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:38:20	Running 344293 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:40:15	Running 344294 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:42:08	Running 344295 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:44:02	Running 344296 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:45:56	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:47:51	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:49:50	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:51:50	Running 344297 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:53:41	Running 344298 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:55:34	Running 344299 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:57:28	Running 344300 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 16:59:20	Running 344301 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:01:20	Running 344302 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:03:21	Running l344302 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:05:16	Running dup344302 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:07:11	Running mss344302 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:09:02	Running msds344302 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:11:00	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:12:55	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:14:54	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:16:53	Running pdss344302 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:18:44	Running 344303 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:20:46	Running 344304 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:22:38	Running 344305 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:24:31	Running 344899lcss 45649 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:26:30	Running 344898mbs 45649 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:28:29	Running 344220 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:30:22	Running 344221 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:32:16	Running 344222 (89)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:34:16	Running 344223 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:36:15	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:38:10	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/03/2013 17:40:09	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:42:08	Running 344224 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:44:11	Running 344225 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:46:10	Running 344226 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:48:04	Running 344227 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:49:59	Running 344228 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:51:52	Running 344229 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:53:47	Running 344230 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:55:43	Running 344231 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:57:44	Running 344232 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 17:59:40	Running l344232 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:01:39	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:03:35	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:05:34	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:07:33	Running dup344232 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:09:33	Running mss344232 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:11:32	Running msds344232 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:13:32	Running pdss344232 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:15:34	Running 344257 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:17:36	Running 344260 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:19:39	Running 344261 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:21:41	Running 344262 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:23:34	Running 344263 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:25:38	Running 344264 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:27:32	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:29:29	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:31:27	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:33:27	Running 344265 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:35:30	Running 344894lcss 45648 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:37:28	Running 344893mbs 45648 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:39:28	Running 344200 (114)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:41:19	Running 344201 (115)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:43:11	Running 344202 (116)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:45:05	Running 344203 (117)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:46:58	Running 344204 (118)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:48:52	Running 344205 (119)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:50:44	Running 344206 (120)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:52:37	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:54:33	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:56:32	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 18:58:32	Running 344207 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:00:28	Running 344208 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:02:22	Running l344208 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:04:20	Running dup344208 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:06:14	Running mss344208 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:08:06	Running msds344208 (126)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:09:57	Running pdss344208 (127)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:11:48	Running 344209 (128)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:13:43	Running 344210 (129)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:15:36	Running 344211 (130)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:17:30	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/03/2013 19:19:27	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:21:25	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:23:26	Running 344212 (131)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:25:28	Running 344213 (132)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:27:22	Running 344214 (133)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:29:25	Running 344215 (134)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:31:27	Running 344216 (135)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:33:30	Running 344217 (136)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:35:26	Running 344218 (137)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:37:19	Running 344219 (138)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:39:12	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:41:10	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:43:07	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:45:05	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/03/2013 19:47:04	Plasma off	NAH	iTEVA Control Center	
	09/03/2013 19:47:04	Plasma extinguished successfully	NAH	Analyst	
	09/03/2013 19:47:06	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 06:39:58	Plasma On	NAH	iTEVA Control Center	
	09/04/2013 06:40:03	Plasma ignition successful	NAH	Analyst	
	09/04/2013 06:40:49	D33534 - Debug:Wavelength check : x = -1.286, y =2.441	NAH	Analyst	
	09/04/2013 11:31:52	Autosampler Run Started	NAH	Analyst	
	09/04/2013 11:31:52	Sequence Started	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:32:15	Running Blank (1)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:34:12	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:36:11	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:38:09	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:40:08	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:42:07	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:44:06	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:45:59	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:47:52	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:49:54	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:52:06	Running ICV1 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:54:03	Running ICV2 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:56:01	Running icvLL (20)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:57:59	Running icb (11)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 11:59:58	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:01:56	Running icsa (13)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:04:00	Running icsab (14)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:06:03	Running 344914lcss 45652 (1)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:08:00	Running 344913mbs 45652 (2)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:09:59	Running 344306 (3)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:11:52	Running 344307 (4)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:13:42	Running 344308 (5)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:15:34	Running 344309 (6)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:17:28	Running 344310 (7)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:19:20	Running 344311 (8)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:21:11	Running 344312 (9)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:23:04	Running 344313 (10)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:24:56	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:26:52	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 12:28:51	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:30:50	Running 344314 (11)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:32:43	Running 344315 (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:34:34	Running 344316 (13)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:36:25	Running 344317 (14)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:38:17	Running 344318 (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:40:10	Running 344319 (16)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:42:03	Running 344320 (17)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:43:55	Running 344321 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:45:46	Running 344322 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:47:45	Running 344323 (20)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:49:45	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:51:41	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:53:39	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:55:38	Running 344324 (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:57:39	Running 344325 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 12:59:39	Running l344325 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:01:34	Running dup344325 (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:03:34	Running mss344325 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:05:33	Running msds344325 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:07:31	Running pdss344325 (27)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:09:30	Running 344919lcss 45653 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:11:27	Running 344918mbs 45653 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:13:26	Running 344326 (30)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:15:27	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:17:23	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:19:21	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:21:21	Running l344326 (31)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:23:18	Running dup344326 (32)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:25:11	Running mss344326 (33)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:27:02	Running msds344326 (34)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:28:52	Running pdss344326 (35)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:30:52	Running 344336 (36)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:32:44	Running 344337 (37)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:34:37	Running 344338 (38)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:36:28	Running 344339 (39)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:38:10	Unable to Set Check Table, mrl	NAH	Analyst	
	09/04/2013 13:38:20	Running 344340 (40)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:40:11	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:42:08	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:44:06	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:46:05	Running 344341 (41)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:47:56	Running 344342 (42)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:49:48	Running 344343 (43)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:51:42	Running 344344 (44)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:53:41	Running 344345 (45)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:55:42	Running 344346 (46)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:57:43	Running 344347 (47)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 13:59:45	Running 344348 (48)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:01:45	Running 344349 (49)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:03:46	Running 344350 (50)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 14:05:37	Running CCV1 (18)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:07:33	Running CCV2 (19)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:09:31	Running ccb (12)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:11:30	Running 344351 (51)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:13:22	Running 344352 (52)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:15:14	Running 344353 (53)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:17:14	Running 344354 (54)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:19:15	Running 344924lcss 45654 (55)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:21:13	Running 344923mbs 45654 (56)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:23:12	Running 344355 (57)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:25:06	Running 344356 (58)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:26:59	Running l344356 (59)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:28:57	Running dup344356 (60)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:30:49	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:32:45	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:34:43	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:36:42	Running mss344356 (61)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:38:33	Running msds344356 (62)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:40:24	Running pdss344356 (63)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:42:14	Running 344357 (64)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:44:07	Running 344358 (65)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:45:59	Running 344359 (66)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:47:51	Running 344360 (67)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:49:44	Running 344361 (68)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:51:36	Running 344362 (69)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:53:28	Running 344363 (70)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:55:18	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:57:13	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 14:59:12	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:01:11	Running 344364 (71)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:03:05	Running 344365 (72)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:04:58	Running 344366 (73)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:06:52	Running 344367 (74)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:08:44	Running 344368 (75)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:10:37	Running 344369 (76)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:12:31	Running 344370 (77)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:14:22	Running 344371 (78)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:16:15	Running 344372 (79)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:18:09	Running 344373 (80)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:20:02	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:21:58	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:23:56	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:25:56	Running 344374 (81)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:27:49	Running 344929lcss 45655 (82)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:29:47	Running 344928mbs 45655 (83)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:31:46	Running 344375 (84)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:33:44	Running 344376 (85)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:35:36	Running 344377 (86)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:37:28	Running 344378 (87)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:39:19	Running l344378 (88)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:41:13	Running dup344378 (89)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 15:43:05	Running mss344378 (90)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:44:54	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:46:49	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:48:48	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:50:47	Running msds344378 (91)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:52:38	Running pdss344378 (92)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:54:29	Running 344379 (93)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:56:20	Running 344380 (94)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 15:58:12	Running 344381 (95)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:00:04	Running 344382 (96)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:01:57	Running 344383 (97)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:03:51	Running 344384 (98)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:05:45	Running 344385 (99)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:07:37	Running 344386 (100)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:09:29	Running CCV1 (22)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:11:25	Running CCV2 (23)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:13:24	Running ccb (21)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:15:23	Running 344387 (101)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:17:17	Running 344388 (102)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:19:11	Running 344389 (103)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:21:05	Running 344390 (104)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:22:57	Running 344391 (105)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:24:49	Running 344392 (106)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:26:41	Running 344393 (107)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:28:34	Running 344394 (108)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:30:27	Running 344934lcss 45656 (109)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:32:26	Running 344933mbs 45656 (110)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:34:24	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:36:21	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:38:19	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:40:19	Running 344395 (111)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:42:12	Running 344396 (112)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:44:04	Running l344396 (113)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:46:00	Running dup344396 (114)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:47:53	Running mss344396 (115)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:49:44	Running msds344396 (116)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:51:35	Running pdss344396 (117)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:53:26	Running 344397 (118)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:55:20	Running 344398 (119)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:57:14	Running 344399 (120)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 16:59:06	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:01:03	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:03:02	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:05:01	Running 344400 (121)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:06:54	Running 344401 (122)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:08:48	Running 344403 (123)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:10:41	Running 344404 (124)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:12:42	Running 344405 (125)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:14:43	Running 344406 (126)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:16:44	Running 344407 (127)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:18:38	Running 344408 (128)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 17:20:31	Running 344409 (129)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:22:32	Running 344410 (130)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:24:25	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:26:22	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:28:20	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:30:20	Running 344411 (131)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:32:12	Running 344412 (132)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:34:06	Running 344413 (133)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:36:01	Running 344414 (134)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:37:55	Running 344415 (135)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:39:51	Running 344939lcss 45657 (136)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:41:49	Running 344938mbs 45657 (137)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:43:49	Running 344416 (138)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:45:45	Running 344417 (139)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:47:40	Running 344418 (140)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:49:34	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:51:31	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:53:28	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:55:28	Running 344419 (141)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:57:21	Running 344420 (142)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 17:59:16	Running l344420 (143)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:01:14	Running dup344420 (144)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:03:10	Running mss344420 (145)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:05:02	Running msds344420 (146)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:06:53	Running pdss344420 (147)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:08:45	Running 344421 (148)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:10:39	Running 344422 (149)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:12:41	Running 344423 (150)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:14:33	Running CCV1 (25)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:16:30	Running CCV2 (26)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:18:28	Running ccb (24)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:20:28	Running 344424 (151)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:22:23	Running 344425 (152)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:24:16	Running 344426 (153)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:26:10	Running 344427 (154)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:28:05	Running l344427 (155)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:30:04	Running dup344427 (156)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:31:59	Running mss344427 (157)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:33:50	Running msds344427 (158)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:35:42	Running pdss344427 (159)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:37:34	Running 344428 (160)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:39:26	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:41:23	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:43:22	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:45:22	Running 344429 (161)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:47:25	Running 344430 (162)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:49:18	Running 344431 (163)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:51:13	Running 344432 (164)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:53:07	Running 344433 (165)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:55:00	Running 344434 (166)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 18:56:56	Running 344435 (167)	NAH	Analyst	S_As & Pb onlyasx(v

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 18:58:47	Running MRL (15)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 19:00:46	Running CCV1 (28)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 19:02:43	Running CCV2 (29)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 19:04:42	Running ccb (27)	NAH	Analyst	S_As & Pb onlyasx(v
	09/04/2013 19:06:39	Plasma off	NAH	iTEVA Control Center	
	09/04/2013 19:06:39	Plasma extinguished successfully	NAH	Analyst	
	09/04/2013 19:06:41	Autosampler Run Completed	NAH	Analyst	S_As & Pb onlyasx(v
	09/05/2013 07:17:40	Plasma On	NAH	iTEVA Control Center	
	09/05/2013 07:17:47	Plasma ignition successful	NAH	Analyst	
	09/05/2013 07:18:42	D33534 - Debug:Wavelength check : x = -1.413, y =2.451	NAH	Analyst	

CT Laboratories Instrument Run Log

Instrument ID: ICP 6500

Date	Time (Start/End)	Analyst	Analytes	LIMS run or Samples Analyzed	Sequence ID	Cal Std ID	Neb Pressure	Comments
8-20-13	~~1104~~ 1446 / ~~2229~~ 1446	JA	DOD Cal	96874, 96872, 96878	D082013	m11605	120	V1394, V1395, V1397
8-20-13	1502 / 2243	JA	DOD Cal	96878 96874	D082013	m11605	120	V1393
8-21-13	1215 / 1604	JA	DOD Cal	96853, 96897	D082013	m11605	120	V1396, V1398
8-22-13	0700 / 1000	JA	DOD Cal	96851, 96874	D082013	m11605	120	V1399
8-23-13	0851 / 1850	JA	DOD Cal	97049, 97082, 97066, 97041, 97053, 97064	D082313	m11605	120	~~V1403~~ V1401
8-25-13	0907 / 1424	JA	DOD Cal	97111, 97109, 97107	D082513	m11605	120	V56, V58
8-26-13	0948 / 1820	JA	DOD Cal As/Pb	97108, 97110, 97112, 97113, 97164, 97165, 97184, 9786, 97196, 97199	AsPb082613	m11605	120	V62, Change Data Base V1404, V1405
8-27-13	1130 / 1639	JA	DOD Cal	97184, 97186, 97300, 97165, 97186, 97199	AsPb082713	m11605	120	V1410, V1411
8-28-13	1736 / 1914	JA	DOD Cal	97300, 97364, 97365, 67, 97356, 97326, 97301, 97358, 97357, 97360, 97362, 97305, 97306, 97476	Asbb082813	m11605	120	V1406
8-29-13	1431 / 0459	JA	DOD Cal	97378, 97329	B082913	m11605	120	V1409, V1412, V1413
8-30-13	0830 / 1229	JA	DOD Cal	97579, 80, 82, 83, 84, 85	D083013	m11605	120	V1416 V1415
9-4-13	1715 / 0047	JA	As+Pb		D090413	m11605	120	V64
9-5-13	/	JA	DOD Cal		D090513	m11605	120	

* 8-28-13

Type	Date/Time	Message	User name	Application	Sequence Name
	08/09/2013 20:32:56	Running lcsw45416/17 (99)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 20:36:47	Running mbw45416/17 (100)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 20:40:36	Running ccv1 (27)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 20:43:55	Running ccv2 (25)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 20:47:18	Running ccb (26)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 20:51:10	Running 335314 (101)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 20:55:12	Running 335476 (102)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 20:59:13	Running 335477 (103)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:03:10	Running 335478 (104)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:07:08	Running 335479 (105)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:11:05	Running 335718 (106)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:15:09	Running msw335718 (107)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:19:03	Running msdw335718 (108)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:22:59	Running pdsw335718 (109)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:26:33	Running 335303 (110)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:30:27	Running ccv1 (27)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:33:46	Running ccv2 (25)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:37:10	Running ccb (26)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:41:01	Running 335764 (111)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:45:09	Running lcsw45415 (112)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:48:50	Running mbw45415 (113)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:52:39	Running 335760 (114)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 21:56:42	Running l335760 (115)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:00:46	Running dup335760 (116)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:04:50	Running msw335760 (117)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:08:30	Running msdw335760 (118)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:12:09	Running pdsw335760 (119)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:15:50	Running lcsw45393 (120)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:19:29	Running ccv1 (27)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:22:49	Running ccv2 (25)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:26:12	Running ccb (26)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:30:03	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:33:52	Running ccv1 (30)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:37:15	Running ccv2 (28)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:40:39	Running ccb (29)	NAH	Analyst	S_DOD Calibration 1
	08/09/2013 22:44:28	Plasma off	NAH	iTEVA Control Center	
	08/09/2013 22:44:28	Plasma extinguished successfully	NAH	Analyst	
	08/09/2013 22:44:30	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/12/2013 06:54:25	Plasma On	NAH	iTEVA Control Center	
	08/12/2013 06:54:29	Plasma ignition successful	NAH	Analyst	
	08/12/2013 06:55:08	D33534 - Debug:Wavelength check : x = 1.709, y =-0.357	NAH	Analyst	
	08/12/2013 13:16:27	Plasma off	NAH	iTEVA Control Center	
	08/12/2013 13:16:28	Plasma extinguished successfully	NAH	Analyst	
	08/13/2013 08:20:30	Plasma On	NAH	iTEVA Control Center	
	08/13/2013 08:20:37	Plasma ignition successful	NAH	Analyst	
	08/13/2013 08:21:16	D33534 - Debug:Wavelength check : x = 1.561, y =-0.420	NAH	Analyst	
	08/13/2013 08:21:32	Plasma extinguished successfully	NAH	Analyst	
	08/13/2013 08:21:33	Plasma off	NAH	iTEVA Control Center	
	08/13/2013 08:22:11	Plasma On	NAH	iTEVA Control Center	
	08/13/2013 08:22:16	Plasma ignition successful	NAH	Analyst	
	08/13/2013 08:22:54	D33534 - Debug:Wavelength check : x = 1.588, y =-0.363	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/13/2013 12:03:24	Autosampler Run Started	NAH	Analyst	
	08/13/2013 12:03:24	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:03:48	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:06:03	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:17:48	Autosampler Run Started	NAH	Analyst	
	08/13/2013 12:17:48	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:18:12	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:21:59	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:25:50	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:29:41	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:33:30	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:37:21	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:41:11	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:44:58	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:48:41	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:52:14	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:55:31	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:59:34	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 12:59:57	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:00:50	Autosampler Run Started	NAH	Analyst	
	08/13/2013 13:00:50	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:01:14	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:04:58	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:07:04	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:12:02	Autosampler Run Started	NAH	Analyst	
	08/13/2013 13:12:02	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:12:26	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:12:51	Closing will close the method and all associated samples.	NAH	Analyst	
	08/13/2013 13:16:08	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:19:59	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:23:50	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:27:40	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:31:30	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:35:21	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:39:08	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:42:50	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:46:23	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:49:37	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:53:35	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 13:57:42	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:01:31	E33539 - : Error Updating Method with standard: Standard saturated.	NAH	Analyst	
	08/13/2013 14:01:38	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:05:35	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:09:47	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:13:38	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:17:09	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:20:58	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:24:49	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:28:37	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:32:34	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:36:10	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/13/2013 14:39:58	Running mbw45398 (1)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:43:47	Running 335427 (2)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:47:36	Running lcsw45423 (3)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:51:18	Running mbw45423 (4)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:55:09	Running 336364 (5)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 14:59:07	Running l336364 (6)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:03:17	Running dup336364 (7)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:07:15	Running msw336364 (8)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:11:05	Running msdw336364 (9)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:14:54	Running pdsw336364 (10)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:18:32	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:21:59	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:25:23	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:29:15	Running 336365 (11)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:33:15	Running 336366 (12)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:37:13	Running 336367 (13)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:41:15	Running lcsw45422/24 (14)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:45:07	Running mbw45422/24 (15)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:48:56	Running 336362 (16)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:52:57	Running 336373 (17)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 15:56:56	Running 336376 (18)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:00:55	Running l336376 (19)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:04:58	Running dup336376 (20)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:08:55	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:12:24	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:15:47	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:19:40	Running msw336376 (21)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:23:38	Running msdw336376 (22)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:27:37	Running pdsw336376 (23)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:31:18	Running 336378 (24)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:35:20	Running 336380 (25)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:39:22	Running 336382 (26)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:43:24	Running 336384 (27)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:47:26	Running 336386 (28)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:51:28	Running 336388 (29)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:55:30	Running 336390 (30)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 16:59:31	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:03:01	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:06:23	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:10:16	Running 336392 (31)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:14:19	Running 336394 (32)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:18:46	Running 336396 (33)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:22:36	Running 336398 (34)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:26:39	Running 336400 (35)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:30:42	Running 336402 (36)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:34:39	Running 336404 (37)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:38:37	Running lcss45430 (38)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:42:13	Running mbs45430 (39)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:46:02	Running 335708 (40)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:49:48	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 17:53:16	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/13/2013 17:56:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:00:30	Running l335708 (41)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:03:56	Running dup335708 (42)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:07:22	Running mss335708 (43)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:10:58	Running msds335708 (44)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:14:39	Running pdss335708 (45)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:18:31	Running 335709 (46)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:22:23	Running 335710 (47)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:26:14	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:30:02	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:33:30	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:36:53	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/13/2013 18:40:46	Plasma extinguished successfully	NAH	Analyst	
	08/13/2013 18:40:46	Plasma off	NAH	iTEVA Control Center	
	08/13/2013 18:40:48	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 07:44:32	Plasma On	NAH	iTEVA Control Center	
	08/14/2013 07:44:36	Plasma ignition successful	NAH	Analyst	
	08/14/2013 07:45:16	D33534 - Debug:Wavelength check : x = 1.600, y =-0.376	NAH	Analyst	
	08/14/2013 11:54:03	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 11:54:03	Autosampler Run Started	NAH	Analyst	
	08/14/2013 11:54:26	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 11:58:12	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:02:03	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:05:55	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:09:45	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:13:36	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:17:28	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:21:15	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:24:58	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:28:32	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:31:46	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:35:49	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:39:56	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:43:46	E33539 - : Error Updating Method with standard: Standard saturated.	NAH	Analyst	
	08/14/2013 12:43:53	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:47:51	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:51:59	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:55:51	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 12:59:22	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:03:12	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:07:01	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:10:50	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:14:48	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:18:24	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:22:12	Running mbw453922 (1)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:26:03	Running 336396 (2)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:29:54	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:33:41	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:37:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:40:42	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/14/2013 13:44:35	Plasma off	NAH	iTEVA Control Center	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/14/2013 13:44:35	Plasma extinguished successfully	NAH	Analyst	
	08/14/2013 13:44:37	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 09:02:54	iTEVA loaded	NAH	iTEVA Control Center	
	08/19/2013 09:03:12	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/19/2013 09:11:27	Plasma On	NAH	iTEVA Control Center	
	08/19/2013 09:11:33	Plasma ignition successful	NAH	iTEVA Control Center	
	08/19/2013 09:12:12	D33534 - Debug:Wavelength check : x = 1.532, y =-0.402	NAH	iTEVA Control Center	
	08/19/2013 10:22:26	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:22:26	Autosampler Run Started	NAH	Analyst	
	08/19/2013 10:22:50	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:26:32	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:26:49	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:27:17	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:27:17	Autosampler Run Started	NAH	Analyst	
	08/19/2013 10:27:40	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:30:28	Closing will close the method and all associated samples.	NAH	Analyst	
	08/19/2013 10:31:27	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:31:43	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:35:55	Autosampler Run Started	NAH	Analyst	
	08/19/2013 10:35:55	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:36:19	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:40:01	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:40:34	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:45:52	Autosampler Run Started	NAH	Analyst	
	08/19/2013 10:45:52	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:46:16	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:49:15	Closing will close the method and all associated samples.	NAH	Analyst	
	08/19/2013 10:49:17	Closing will close the method and all associated samples.	NAH	Analyst	
	08/19/2013 10:49:58	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:50:12	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:51:39	Autosampler Run Started	NAH	Analyst	
	08/19/2013 10:51:39	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:52:03	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:54:45	Closing will close the method and all associated samples.	NAH	Analyst	
	08/19/2013 10:55:45	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 10:56:05	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:04:03	Autosampler Run Started	NAH	Analyst	
	08/19/2013 11:04:03	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:04:27	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:08:08	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:11:58	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:12:22	Closing will close the method and all associated samples.	NAH	Analyst	
	08/19/2013 11:15:50	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:19:39	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:23:30	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:27:21	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:31:10	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:34:53	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:38:31	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:41:46	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:45:53	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/19/2013 11:50:05	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:54:03	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 11:58:02	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:02:15	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:06:07	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:09:39	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:13:23	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:17:15	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:21:07	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:24:57	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:28:56	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:32:32	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:36:20	Running lcsw45496/95 (1)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:40:12	Running mbw45496/95 (2)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:44:01	Running 339554 (3)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:47:47	Running msw339554 (4)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:51:37	Running msdw339554 (5)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:55:28	Running pdsw339554 (6)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 12:59:10	Running 339365 (7)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:03:16	Running msw339365 (8)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:07:09	Running msdw339365 (9)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:11:04	Running pdsw339365 (10)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:14:47	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:18:19	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:21:43	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:25:38	Running 339445 (11)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:29:42	Running msw339445 (12)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:33:41	Running msdw339445 (13)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:37:36	Running pdsw339445 (14)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:41:18	Running 339447 (15)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:45:21	Running 339448 (16)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:49:23	Running 339449 (17)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:53:26	Running 339458 (18)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 13:57:32	Running lcsw45498 (19)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:01:24	Running mbw45498 (20)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:05:14	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:08:44	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:12:08	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:16:00	Running 339570 (21)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:20:07	Running l339570 (22)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:24:05	Running dup339570 (23)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:28:11	Running msw339570 (24)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:32:01	Running msdw339570 (25)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:35:53	Running pdsw339570 (26)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:39:40	Running lcsw45497 (27)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:43:32	Running mbw45497 (28)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:47:23	Running 339561 (29)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:51:13	Running l339561 (30)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:55:05	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 14:58:35	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:01:59	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/19/2013 15:05:51	Running dup339561 (31)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:09:43	Running msw339561 (32)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:13:34	Running msdw339561 (33)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:17:27	Running pdsw339561 (34)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:21:11	Running lcswtclp (35)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:24:55	Running mbwtclp (36)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:28:45	Running 336989 (37)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:32:50	Running msw336989 (38)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:36:45	Running 339382 (39)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:41:07	Running msw339382 (40)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:45:06	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:48:36	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:52:00	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:55:52	Running msdw339382 (41)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 15:59:49	Running 339536 (42)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:03:36	Running 339537 (43)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:07:24	Running 339538 (44)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:11:15	Running 339539 (45)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:15:04	Running msw339539 (46)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:18:47	Running msdw339539 (47)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:22:30	Running 338910 (48)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:26:33	Running 338911 (49)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:30:26	Running 338912 (50)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:34:29	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:37:57	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:41:22	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:45:14	Running 338913 (51)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:49:15	Running msw338913 (52)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:52:57	Running msdw338913 (53)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 16:56:38	Running lcsw45479 (54)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:00:16	Running mbw45479 (55)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:04:07	Running 336370 (56)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:08:08	Running l336370 (57)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:12:11	Running dup336370 (58)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:16:12	Running msw336370 (59)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:20:01	Running msdw336370 (60)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:23:50	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:27:20	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:30:44	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:34:37	Running pdsw336370 (61)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:38:18	Running lcsw45478/77 (62)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:42:11	Running mbw45478/77 (63)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:46:02	Running 338280 (64)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:50:05	Running 338281 (65)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:54:10	Running 338283 (66)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 17:58:20	Running 338771 (67)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:02:29	Running msw338771 (68)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:06:27	Running msdw338771 (69)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:10:26	Running pdsw338771 (70)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:14:08	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:17:38	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/19/2013 18:21:02	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:24:54	Running 337837 (71)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:28:57	Running 338440 (72)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:32:54	Running msw338440 (73)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:36:52	Running msdw338440 (74)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:40:49	Running pdsw338440 (75)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:44:27	Running 338483 (76)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:48:31	Running lcsw45480/83 (77)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:52:25	Running mbw45480/83 (78)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 18:56:16	Running 338540 (79)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:00:25	Running l338540 (80)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:04:29	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:07:53	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:11:19	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:15:12	Running dup338540 (81)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:19:22	Running msw338540 (82)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:23:12	Running msdw338540 (83)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:27:02	Running pdsw338540 (84)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:30:44	Running lcsw45481/82 (85)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:34:37	Running mbw45481/82 (86)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:38:29	Running 339932 (87)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:42:38	Running l339932 (88)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:46:42	Running dup339932 (89)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:50:52	Running msw339932 (90)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:54:42	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 19:58:05	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:01:30	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:05:23	Running msdw339932 (91)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:09:13	Running pdsw339932 (92)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:12:56	Running lcsw45492 (93)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:16:36	Running mbw45492 (94)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:20:29	Running 338795 (95)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:24:33	Running l338795 (96)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:28:38	Running dup338795 (97)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:32:42	Running msw338795 (98)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:36:33	Running msdw338795 (99)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:40:25	Running pdsw338795 (100)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:44:08	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:47:31	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:50:58	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:54:51	Running 338797 (101)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 20:58:56	Running 338799 (102)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:02:58	Running 338801 (103)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:06:58	Running lcsw45491 (104)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:10:40	Running mbw45491 (105)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:14:32	Running 338796 (106)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:18:37	Running l338796 (107)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:22:43	Running dup338796 (108)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:26:47	Running msw338796 (109)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:30:39	Running msdw338796 (110)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:34:31	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/19/2013 21:37:55	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:41:21	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:45:14	Running pdsw338796 (111)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:48:58	Running 338798 (112)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:53:02	Running 338800 (113)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 21:57:07	Running 338802 (114)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:01:11	Running lcss45471 (115)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:04:30	Running mbs45471 (116)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:08:24	Running 338447 (117)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:12:22	Running mss338447 (118)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:15:53	Running msds338447 (119)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:19:24	Running pdss338447 (120)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:23:07	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:26:28	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:29:55	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:33:47	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:37:38	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:41:02	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:44:30	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:48:21	Plasma off	NAH	iTEVA Control Center	
	08/19/2013 22:48:22	Plasma extinguished successfully	NAH	Analyst	
	08/19/2013 22:48:24	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/19/2013 22:48:26		NAH	iTEVA Control Center	
	08/19/2013 22:51:42	D33100 - Debug:IIO Internal software error.	NAH	iTEVA Control Center	
	08/20/2013 06:58:36	iTEVA loaded	NAH	iTEVA Control Center	
	08/20/2013 06:59:22	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/20/2013 07:20:26	Plasma On	NAH	iTEVA Control Center	
	08/20/2013 07:20:31	Plasma ignition successful	NAH	iTEVA Control Center	
	08/20/2013 07:20:45	E1251 - : Firmware not ready to process command - operation aborted.	NAH	iTEVA Control Center	
	08/20/2013 07:25:25	iTEVA loaded	NAH	iTEVA Control Center	
	08/20/2013 07:25:43	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/20/2013 07:26:25	Plasma On	NAH	iTEVA Control Center	
	08/20/2013 07:27:40	Plasma extinguished successfully	NAH	Analyst	
	08/20/2013 07:27:40	Plasma off	NAH	iTEVA Control Center	
	08/20/2013 07:28:49	iTEVA loaded	NAH	iTEVA Control Center	
	08/20/2013 07:30:13	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/20/2013 07:31:29	Plasma On	NAH	iTEVA Control Center	
	08/20/2013 07:31:34	Plasma ignition successful	NAH	iTEVA Control Center	
	08/20/2013 07:32:21	D33534 - Debug:Wavelength check : x = 1.138, y =-0.496	NAH	iTEVA Control Center	
	08/20/2013 07:48:26	Autosampler Run Started	NAH	Analyst	
	08/20/2013 07:48:26	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 07:48:49	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 07:52:35	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 07:56:27	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:00:20	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:04:13	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:08:06	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:11:58	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:13:40	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:16:59	Autosampler Run Started	NAH	Analyst	
	08/20/2013 08:16:59	Sequence Started	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 08:17:23	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:17:45	Closing will close the method and all associated samples.	NAH	Analyst	
	08/20/2013 08:21:07	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:22:42	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:23:57	Autosampler Run Started	NAH	Analyst	
	08/20/2013 08:23:57	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:24:21	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:26:31	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:28:16	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:28:16	Autosampler Run Started	NAH	Analyst	
	08/20/2013 08:28:41	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:28:57	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:29:45	Autosampler Run Started	NAH	Analyst	
	08/20/2013 08:29:45	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:30:08	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:32:26	Closing will close the method and all associated samples.	NAH	Analyst	
	08/20/2013 08:32:28	Closing will close the method and all associated samples.	NAH	Analyst	
	08/20/2013 08:33:51	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:34:16	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:36:14	D33534 - Debug:Wavelength check : x = 1.710, y =0.757	NAH	Analyst	
	08/20/2013 08:38:09	Auto Peak	NAH	Analyst	
	08/20/2013 08:40:28	Auto Peak	NAH	Analyst	
	08/20/2013 08:44:21	Auto Peak	NAH	Analyst	
	08/20/2013 08:45:57	Auto Peak	NAH	Analyst	
	08/20/2013 08:48:16	Auto Peak	NAH	Analyst	
	08/20/2013 08:51:29	Auto Peak	NAH	Analyst	
	08/20/2013 08:56:20	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 08:56:20	Autosampler Run Started	NAH	Analyst	
	08/20/2013 08:56:44	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:00:25	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:04:18	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:08:11	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:12:02	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:15:54	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:19:46	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:23:35	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:27:20	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:30:57	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:34:13	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:38:09	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:42:16	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:46:38	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:50:39	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:54:50	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 09:58:44	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:02:24	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:06:09	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:10:06	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:13:59	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:17:56	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:21:59	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 10:25:43	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:29:32	Running lod check1 (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:33:38	Running lcss44510 (2)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:37:27	Running mbs44510 (3)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:41:17	Running 337811 (4)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:45:11	Running 337812 (5)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:49:05	Running 337813 (6)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:53:03	Running 337815 (7)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 10:57:00	Running l337815 (8)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:00:50	Running dup337815 (9)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:04:41	Running mss337815 (10)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:08:31	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:11:55	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:12:21	Cannot update method with modified line positions following an Auto Pe	NAH	Analyst	
	08/20/2013 11:15:24	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:19:17	Running msds337815 (11)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:23:12	Running pdss337815 (12)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:27:03	Running 337818 (13)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:30:53	Running 337820 (14)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:34:44	Running 337822 (15)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:38:37	Running 337824 (16)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:42:28	Running 337826 (17)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:46:22	Running 337828 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:50:23	Running 337830 (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:54:21	Running 337832 (20)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:58:09	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 11:59:36	Cannot update method with modified line positions following an Auto Pe	NAH	Analyst	
	08/20/2013 12:01:31	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:05:00	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:08:53	Running 337835 (21)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:12:44	Running lcss45512 (22)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:16:28	Running mbs45512 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:20:21	Running 338286 (24)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:24:12	Running 338351 (25)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:27:54	Running 338353 (26)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:31:45	Running l338353 (27)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:35:29	Running dup338353 (28)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:39:21	Running mss338353 (29)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:43:07	Running msds338353 (30)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:46:54	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:50:16	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:53:44	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 12:57:38	Running pdss338353 (31)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:01:42	Running 338357 (32)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:05:26	Running 338359 (33)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:09:25	Running 338361 (34)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:13:08	Running 338363 (35)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:16:50	Running 338367 (36)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:20:32	Running 338369 (37)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:24:14	Running l338369 (38)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:28:05	Running dup338369 (39)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 13:31:48	Running mss338369 (40)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:35:31	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:38:54	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:42:24	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:46:18	Running msds338369 (41)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:49:55	Running pdss338369 (42)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:53:42	Running pdss338369 (43)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 13:57:24	Running 338373 (44)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:01:08	Running 338375 (45)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:04:59	Running 338377 (46)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:08:41	Running 338379 (47)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:12:23	Running 338381 (48)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:16:14	Running 338383 (49)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:19:47	Running 338387 (50)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:23:23	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:26:40	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:30:11	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:34:06	Running 338487 (51)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:35:08	iTEVA loaded	NAH	iTEVA Control Center	
	08/20/2013 14:35:27	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/20/2013 14:36:08	Plasma On	NAH	iTEVA Control Center	
	08/20/2013 14:56:47	Autosampler Run Started	NAH	Analyst	
	08/20/2013 14:56:47	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:57:11	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 14:59:20	Closing will close the method and all associated samples.	NAH	Analyst	
	08/20/2013 15:00:57	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:01:27	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:01:48	Autosampler Run Started	NAH	Analyst	
	08/20/2013 15:01:48	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:02:12	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:05:55	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:09:49	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:13:43	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:17:36	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:21:30	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:25:23	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:29:14	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:33:01	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:36:38	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:39:56	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:43:51	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:47:45	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:51:44	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:55:40	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 15:59:48	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:03:43	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:07:20	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:11:13	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:15:07	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:19:01	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:22:53	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 16:26:50	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:30:21	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:34:12	Running lod check1 (1)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:38:06	Running 338387 (50)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:41:50	Running 338407 (51)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:45:40	Running lcss45511 (54)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:49:07	Running mbs45511 (55)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:53:00	Running 339622 (56)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 16:56:48	Running mss339622 (57)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:00:29	Running msds339622 (58)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:04:09	Running pdss339622 (59)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:07:46	Running 339623 (60)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:11:43	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:15:12	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:18:41	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:22:37	Running 339624 (61)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:26:28	Running 339625 (62)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:30:19	Running 339626 (63)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:34:17	Running 339627 (64)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:38:09	Running 339628 (63)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:42:01	Running 339881 (64)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:45:55	Running 339882 (65)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:50:00	Running 339892 (66)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:53:57	Running 339893 (67)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 17:58:18	Running 339894 (68)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:02:38	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:06:03	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:09:33	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:13:28	Running 339895 (69)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:17:50	Running 339896 (70)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:22:12	Running 339897 (71)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:26:33	Running msw339897 (72)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:30:36	Running msdw339897 (73)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:34:38	Running 337811 (4)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:38:23	Running 337812 (5)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:42:08	Running 337813 (6)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:45:49	Running 337815 (7)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:49:34	Running l337815 (8)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:53:30	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 18:56:55	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:00:25	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:04:20	Running dup337815 (9)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:08:05	Running mss337815 (10)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:11:49	Running msds337815 (11)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:15:33	Running pdss337815 (12)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:19:16	Running 337818 (13)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:23:02	Running 337820 (14)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:26:47	Running 337822 (15)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:30:32	Running 337824 (16)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:34:17	Running 337826 (17)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:38:02	Running 337828 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 19:41:48	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:45:12	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:48:41	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:52:35	Running 337830 (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 19:56:21	Running 337832 (20)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:00:07	Running 337835 (21)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:03:53	Running 338286 (24)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:07:39	Running 338351 (25)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:11:23	Running 338353 (26)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:15:07	Running l338353 (27)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:19:00	Running dup338353 (28)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:22:44	Running mss338353 (29)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:26:25	Running msds338353 (30)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:30:07	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:33:32	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:37:02	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:40:58	Running pdss338353 (31)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:44:39	Running 338355 (32)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:48:25	Running 338357 (33)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:52:10	Running 338359 (34)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:55:57	Running 338361 (35)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 20:59:43	Running 338363 (36)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:03:28	Running 338367 (37)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:07:11	Running 338369 (38)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:10:55	Running l338369 (39)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:14:50	Running dup338369 (40)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:18:36	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:22:00	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:25:31	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:29:24	Running mss338369 (41)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:33:07	Running msds338369 (42)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:36:50	Running pdss338369 (43)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:40:32	Running 338371 (44)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:44:16	Running 338373 (45)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:48:00	Running 338375 (46)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:51:47	Running 338377 (47)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:55:34	Running 338379 (48)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 21:59:19	Running 338381 (49)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:03:04	Running 338383 (50)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:06:58	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:10:23	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:13:54	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:17:49	Running 338387 (77)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:21:34	Running 338407 (78)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:25:18	Running lod chk2 (52)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:29:01	Running 338911 (74)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:33:06	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:36:59	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:40:24	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:43:55	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/20/2013 22:47:49	Plasma off	NAH	iTEVA Control Center	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/20/2013 22:47:49	Plasma extinguished successfully	NAH	Analyst	
	08/20/2013 22:47:51	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 06:44:57	Plasma On	NAH	iTEVA Control Center	
	08/21/2013 06:45:03	Plasma ignition successful	NAH	Analyst	
	08/21/2013 06:45:42	D33534 - Debug:Wavelength check : x = 2.106, y =0.711	NAH	Analyst	
	08/21/2013 12:03:54	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:03:54	Autosampler Run Started	NAH	Analyst	
	08/21/2013 12:04:18	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:08:04	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:12:01	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:14:11	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:14:52	Autosampler Run Started	NAH	Analyst	
	08/21/2013 12:14:52	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:15:16	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:19:02	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:22:57	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:26:51	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:30:46	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:34:40	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:38:35	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:42:27	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:46:15	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:49:54	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:53:16	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 12:57:13	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:01:08	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:05:07	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:08:58	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:13:06	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:17:05	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:20:43	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:24:29	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:28:24	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:28:44	Closing will close the method and all associated samples.	NAH	Analyst	
	08/21/2013 13:32:20	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:36:16	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:40:13	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:43:41	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:47:33	Running blk1 (1)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:51:28	Running mbw45497 (2)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:55:24	Running 339561 (3)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 13:59:20	Running l339561 (4)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:03:14	Running dup339561 (5)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:07:15	Running 339881 (6)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:11:11	Running 339882 (7)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:15:04	Running 339892 (8)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:19:36	Running 339893 (9)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:23:59	Running 339894 (10)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:28:21	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:31:55	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:35:26	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/21/2013 14:39:21	Running 339895 (11)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:43:43	Running 339896 (12)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:48:04	Running 339897 (13)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:52:25	Running msw339897 (14)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 14:56:21	Running msdw339897 (15)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:00:14	Running 338387 (16)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:04:04	Running 338407 (17)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:07:48	Running 338387 (18)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:11:32	Running 338407 (19)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:15:19	Running 338375 (20)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:19:03	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:22:31	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:26:03	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:29:59	Running 338369 (21)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:33:50	Running L338369 (22)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:37:36	Running DUP338369 (23)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:41:27	Running MSS338369 (24)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:45:25	Running MSDS338369 (25)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:49:19	Running PDSS338369 (26)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:53:21	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 15:57:13	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 16:00:39	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 16:04:10	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/21/2013 16:08:06	Plasma extinguished successfully	NAH	Analyst	
	08/21/2013 16:08:06	Plasma off	NAH	iTEVA Control Center	
	08/21/2013 16:08:09	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 09:07:50	Plasma On	NAH	iTEVA Control Center	
	08/22/2013 09:07:56	Plasma ignition successful	NAH	Analyst	
	08/22/2013 09:08:34	D33534 - Debug:Wavelength check : x = 1.994, y =0.743	NAH	Analyst	
	08/22/2013 12:55:52	Autosampler Run Started	NAH	Analyst	
	08/22/2013 12:55:52	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 12:56:15	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 12:59:59	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:03:55	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:07:51	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:11:47	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:15:42	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:19:38	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:23:40	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:27:30	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:31:10	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:34:32	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:38:31	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:42:28	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:46:29	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:50:19	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:54:33	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 13:58:29	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:02:08	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:05:55	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:09:51	Running icb (17)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/22/2013 14:13:49	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:17:46	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:21:34	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:25:05	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:28:58	Running 338383 (1)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:32:42	Running 338911 (2)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:36:49	Running lcss45512 (3)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:40:32	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:44:24	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:47:47	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:47:57	Closing will close the method and all associated samples.	NAH	Analyst	
	08/22/2013 14:51:20	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/22/2013 14:55:15	Plasma off	NAH	iTEVA Control Center	
	08/22/2013 14:55:15	Plasma extinguished successfully	NAH	Analyst	
	08/22/2013 14:55:17	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 09:45:04	iTEVA loaded	NAH	iTEVA Control Center	
	08/23/2013 09:45:22	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/23/2013 09:54:37	iTEVA loaded	NAH	iTEVA Control Center	
	08/23/2013 09:54:55	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/23/2013 09:55:58	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 09:56:02	Plasma ignition successful	NAH	iTEVA Control Center	
	08/23/2013 09:56:41	D33534 - Debug:Wavelength check : x = 1.950, y =0.758	NAH	iTEVA Control Center	
	08/23/2013 10:45:27	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/23/2013 10:46:34	Plasma ignition successful	NAH	iTEVA Control Center	
	08/23/2013 10:47:11	D33534 - Debug:Wavelength check : x = 1.710, y =0.716	NAH	iTEVA Control Center	
	08/23/2013 11:07:47	Plasma On	NAH	iTEVA Control Center	
	08/23/2013 12:35:19	Autosampler Run Started	NAH	Analyst	
	08/23/2013 12:35:19	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:35:43	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:39:23	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:42:55	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:46:18	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:49:41	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:50:02	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:50:39	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:50:39	Autosampler Run Started	NAH	Analyst	
	08/23/2013 12:51:02	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:53:35	Closing will close the method and all associated samples.	NAH	Analyst	
	08/23/2013 12:54:22	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 12:57:45	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:01:07	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:04:30	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:07:51	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:11:12	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:14:32	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:17:48	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:20:54	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:23:40	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:27:04	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:30:27	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:33:58	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/23/2013 13:37:15	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:40:50	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:44:09	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:47:16	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:50:30	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:53:52	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 13:57:14	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:00:33	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:03:49	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:06:46	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:10:06	Running lcsw tclp (1)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:13:11	Running mbw tclp (2)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:16:32	Running 340104 (3)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:20:06	Running 340948 (4)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:24:04	Running 340949 (5)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:27:33	Running 341863 (6)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:31:03	Running 341968 (7)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:34:52	Running 341972 (8)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:38:39	Running 341974 (9)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:42:10	Running 342400 (10)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:45:34	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:48:19	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:51:16	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:54:39	Running msw342400 (11)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 14:57:43	Running 341308 (12)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:01:26	Running msw341308 (13)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:04:31	Running msdw341308 (14)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:07:37	Running 342073 (15)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:11:20	Running 342074 (16)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:15:02	Running 342075 (17)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:18:44	Running 342076 (18)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:22:22	Running 342077 (19)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:26:04	Running 342078 (20)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:29:45	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:32:30	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:35:28	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:38:52	Running 342079 (21)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:42:13	Running msw342079 (22)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:45:20	Running msdw342079 (23)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:48:28	Running lcsw45555/56 (24)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:51:52	Running mbw45555/56 (25)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:55:13	Running 340167 (26)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 15:58:49	Running l340167 (27)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:02:23	Running dup340167 (28)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:05:59	Running msw340167 (29)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:09:22	Running msdw340167 (30)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:12:44	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:15:30	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:18:28	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:21:52	Running pdsw340167 (31)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:24:58	Running 340965 (32)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/23/2013 16:28:32	Running 340983 (33)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:32:07	Running 340989 (34)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:35:41	Running 340995 (35)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:39:13	Running 340997 (36)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:42:33	Running 340999 (37)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:46:05	Running 940953 (38)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:49:39	Running 940955 (39)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:53:12	Running 940957 (40)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:56:43	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 16:59:28	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:02:27	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:05:50	Running 940959 (41)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:09:24	Running 940961 (42)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:12:58	Running 940963 (43)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:16:33	Running 940967 (44)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:20:07	Running 940973 (45)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:23:41	Running 940975 (46)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:27:15	Running 940977 (47)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:30:50	Running 940979 (48)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:34:25	Running 940981 (49)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:38:00	Running 940985 (50)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:41:33	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:44:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:47:17	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:50:41	Running 940987 (51)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:54:15	Running 940991 (52)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 17:57:49	Running 940993 (53)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:01:21	Running lcsw45554 (54)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:04:32	Running mbw45554 (55)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:07:57	Running 339578 (56)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:11:27	Running 339580 (57)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:15:01	Running l339580 (58)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:18:33	Running dup339580 (59)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:22:08	Running msw339580 (60)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:25:35	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:28:20	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:31:19	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:34:43	Running msdw339580 (61)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:38:10	Running pdsw339580 (62)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:41:21	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:44:42	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:47:28	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:50:26	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/23/2013 18:53:47	Plasma off	NAH	iTEVA Control Center	
	08/23/2013 18:53:48	Plasma extinguished successfully	NAH	Analyst	
	08/23/2013 18:53:50	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/25/2013 08:16:27	Plasma On	NAH	iTEVA Control Center	
	08/25/2013 08:16:33	Plasma ignition successful	NAH	Analyst	
	08/25/2013 08:17:12	D33534 - Debug:Wavelength check : x = 1.989, y =0.743	NAH	Analyst	
	08/25/2013 09:07:05	Autosampler Run Started	NAH	Analyst	
	08/25/2013 09:07:05	Sequence Started	NAH	Analyst	S_As & Pb only(v54)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 09:07:28	Running Blank (1)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:09:29	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:11:30	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:13:32	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:15:34	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:17:36	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:19:34	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:21:27	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:23:24	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:25:19	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:27:39	Running ICV1 (16)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:29:35	Running ICV2 (17)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:31:31	Running icvLL (20)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:33:31	Running icb (11)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:35:33	Running MRL (15)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:37:36	Running icsa (13)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:39:31	Running icsab (14)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:41:24	Running lcss45582 (1)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:43:22	Running mbs45582 (2)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:45:23	Running 341678 (3)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:47:21	Running 341679 (4)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:49:18	Running 341780 (5)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:51:13	Running l341680 (6)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:53:11	Running dup341680 (7)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:55:08	Running mss341680 (8)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:57:10	Running msds341680 (9)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 09:59:03	Running pdss341680 (10)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:00:55	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:02:50	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:04:50	Running ccb (12)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:06:53	Running 341696 (11)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:08:49	Running 341700 (12)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:10:53	Running 341701 (13)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:12:47	Running 341702 (14)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:14:42	Running 341703 (15)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:16:36	Running 341704 (16)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:18:32	Running 341705 (17)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:20:27	Running 341706 (18)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:28:08	iTEVA loaded	NAH	iTEVA Control Center	
	08/25/2013 10:28:26	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/25/2013 10:29:08	Plasma On	NAH	iTEVA Control Center	
	08/25/2013 10:33:48	Autosampler Run Started	NAH	Analyst	
	08/25/2013 10:33:48	Sequence Started	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:34:11	Running Blank (1)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:34:19	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/25/2013 10:34:19	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/25/2013 10:34:19	Unable to Set Check Table, ICVLL	NAH	Analyst	
	08/25/2013 10:36:33	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:37:13	Autosampler Run Completed	NAH	Analyst	S_As & Pb only(v54)
	08/25/2013 10:39:22	Autosampler Run Started	NAH	Analyst	
	08/25/2013 10:39:22	Sequence Started	NAH	Analyst	S_As & Pb only(v55)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 10:39:45	Running Blank (1)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:41:42	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:43:54	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:45:54	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:47:54	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:49:54	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:51:51	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:53:42	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:55:37	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:57:29	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 10:59:51	Running ICV1 (16)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:01:46	Running ICV2 (17)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:03:41	Running icvLL (20)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:05:39	Running icb (11)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:07:39	Running MRL (15)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:09:39	Running icsa (13)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:11:33	Running icsab (14)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:13:25	Running 341696 (11)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:15:20	Running 341700 (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:17:21	Running 341701 (13)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:19:14	Running 341702 (14)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:21:07	Running 341703 (15)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:22:59	Running 341704 (16)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:24:51	Running 341705 (17)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:26:43	Running 341706 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:28:44	Running 341707 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:30:45	Running 341708 (20)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:32:38	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:34:31	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:36:30	Running ccb (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:38:30	Running 341709 (21)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:40:23	Running 341710 (22)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:42:16	Running 341711 (23)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:44:10	Running 341712 (24)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:46:03	Running 341713 (25)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:47:55	Running 341714 (26)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:49:47	Running 341715 (27)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:51:40	Running lcss45583 (28)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:53:36	Running mbs45583 (29)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:55:35	Running 341716 (30)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:57:26	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 11:59:19	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:01:17	Running ccb (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:03:18	Running 341717 (31)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:05:11	Running 341718 (32)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:07:03	Running 341719 (33)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:08:56	Running l341719 (34)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:10:50	Running dup341719 (35)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:12:43	Running mss341919 (36)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:14:35	Running msds341719 (37)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:16:25	Running pdss341719 (38)	NAH	Analyst	S_As & Pb only(v55)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 12:18:16	Running 341720 (39)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:20:08	Running 341721 (40)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:22:00	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:23:54	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:25:52	Running ccb (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:27:53	Running 341722 (41)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:29:58	Running 341723 (42)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:32:01	Running 341724 (43)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:33:54	Running 341725 (44)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:35:48	Running 341726 (45)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:37:50	Running 341727 (46)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:39:53	Running 341728 (47)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:41:46	Running 341729 (48)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:43:48	Running 341730 (49)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:45:50	Running 341731 (50)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:47:42	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:49:35	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:51:34	Running ccb (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:53:35	Running 341732 (51)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:55:27	Running 341733 (52)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:57:21	Running 341734 (53)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 12:59:15	Running 341735 (54)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:01:09	Running lcss45586 (55)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:03:05	Running mbs45586 (56)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:05:05	Running 341786 (57)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:06:58	Running 341787 (58)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:08:51	Running 341788 (59)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:10:44	Running 341789 (60)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:12:36	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:14:29	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:16:28	Running ccb (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:18:28	Running 341790 (61)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:20:20	Running 341791 (62)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:22:12	Running 341792 (63)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:24:07	Running 341793 (64)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:26:00	Running 341794 (65)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:27:52	Running 341795 (66)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:29:44	Running l341795 (67)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:31:39	Running dup341795 (68)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:33:31	Running mss341795 (69)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:35:22	Running msd341795 (70)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:37:12	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:39:04	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:41:03	Running ccb (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:43:04	Running pdss341795 (71)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:44:54	Running 341796 (72)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:46:46	Running 341797 (73)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:48:39	Running 341798 (74)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:50:32	Running l341798 (75)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:52:25	Running dup341798 (76)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:54:18	Running mss341798 (77)	NAH	Analyst	S_As & Pb only(v55)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/25/2013 13:56:08	Running msds341798 (78)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:58:04	Running pdss341798 (79)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 13:59:54	Running 341799 (80)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:01:46	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:03:38	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:05:37	Running ccb (12)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:07:38	Running 341800 (81)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:09:31	Running 341801 (82)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:11:23	Running 341802 (83)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:13:16	Running 341803 (84)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:15:10	Running 341804 (85)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:17:03	Running 341805 (86)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:18:54	Running MRL (15)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:20:53	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:22:45	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:24:44	Running ccb (21)	NAH	Analyst	S_As & Pb only(v55)
	08/25/2013 14:26:45	Plasma extinguished successfully	NAH	Analyst	
	08/25/2013 14:26:45	Plasma off	NAH	iTEVA Control Center	
	08/25/2013 14:26:47	Autosampler Run Completed	NAH	Analyst	S_As & Pb only(v55)
	08/26/2013 06:38:12	Plasma On	NAH	iTEVA Control Center	
	08/26/2013 06:38:17	Plasma ignition successful	NAH	Analyst	
	08/26/2013 06:38:56	D33534 - Debug:Wavelength check : x = 2.024, y =0.738	NAH	Analyst	
	08/26/2013 09:47:48	Autosampler Run Started	NAH	Analyst	
	08/26/2013 09:47:48	Sequence Started	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 09:48:11	Running Blank (1)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 09:50:10	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 09:52:09	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 09:54:09	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 09:56:09	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 09:58:10	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:00:06	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:01:56	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:03:49	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:05:41	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:07:59	Running ICV1 (16)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:09:55	Running ICV2 (17)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:11:49	Running icvLL (20)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:13:47	Running icb (11)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:15:47	Running MRL (15)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:17:47	Running icsa (13)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:19:40	Running icsab (14)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:21:32	Running lcss45584 (1)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:23:27	Running mbs45584 (2)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:25:27	Running 341736 (3)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:27:20	Running 341737 (4)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:29:13	Running 341738 (5)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:31:07	Running 341739 (6)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:32:59	Running 341740 (7)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:34:52	Running 341741 (8)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:36:44	Running 341742 (9)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:38:37	Running l341742 (10)	NAH	Analyst	S_As & Pb only(v59)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/26/2013 10:40:33	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:42:26	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:42:45	Autosampler Run Completed	NAH	Analyst	S_As & Pb only(v59)
	08/26/2013 10:48:25	Autosampler Run Started	NAH	Analyst	
	08/26/2013 10:48:25	Sequence Started	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 10:48:48	Running Blank (1)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 10:50:45	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 10:52:44	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 10:54:44	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 10:56:44	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 10:58:45	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:00:42	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:02:33	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:04:26	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:06:19	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:08:37	Running ICV1 (16)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:10:32	Running ICV2 (17)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:12:27	Running icvLL (20)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:14:25	Running icb (11)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:16:24	Running MRL (15)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:18:24	Running icsa (13)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:20:18	Running icsab (14)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:22:10	Running lcss45584 (1)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:24:05	Running mbs45584 (2)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:26:05	Running 341736 (3)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:27:57	Running 341737 (4)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:29:50	Running 341738 (5)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:31:42	Running 341739 (6)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:33:35	Running 341740 (7)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:35:27	Running 341741 (8)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:37:20	Running 341742 (9)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:39:12	Running l341742 (10)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:41:08	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:43:01	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:45:00	Running ccb (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:47:00	Running dup341742 (11)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:48:52	Running mss341742 (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:50:43	Running msds341742 (13)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:52:33	Running pdss341742 (14)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:54:23	Running 341743 (15)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:56:15	Running 341744 (16)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:58:07	Running 341745 (17)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 11:59:59	Running 341746 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:01:51	Running 341747 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:03:43	Running 341748 (20)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:05:35	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:07:28	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:09:26	Running ccb (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:11:26	Running 341749 (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:13:19	Running 341750 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:15:11	Running 341751 (23)	NAH	Analyst	S_As & Pb only(v61)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/26/2013 12:17:04	Running 341752 (24)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:18:56	Running 341753 (25)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:20:49	Running 341754 (26)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:22:41	Running l341754 (27)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:24:35	Running dup341754 (28)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:26:27	Running mss341754 (29)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:28:17	Running msds341754 (30)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:30:07	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:31:59	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:33:44	Closing will close the method and all associated samples.	NAH	Analyst	
	08/26/2013 12:33:58	Running ccb (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:35:58	Running pdss341754 (31)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:37:49	Running 341755 (32)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:39:42	Running lcss45585 (33)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:41:38	Running mbs45585 (34)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:43:38	Running 341756 (35)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:45:31	Running l341756 (36)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:47:26	Running dup341756 (37)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:49:19	Running mss341756 (38)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:51:10	Running msds341756 (39)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:51:52	Closing will close the method and all associated samples.	NAH	Analyst	
	08/26/2013 12:53:01	Running pdss341756 (40)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:54:51	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:56:54	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 12:58:52	Running ccb (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:00:52	Running 341757 (41)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:02:45	Running 341758 (42)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:04:37	Running 341759 (43)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:06:30	Running 341760 (44)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:08:23	Running 341761 (45)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:10:16	Running 341762 (46)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:12:09	Running 341763 (47)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:14:03	Running 341764 (48)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:15:56	Running 341765 (49)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:17:48	Running 341775 (50)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:19:41	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:21:34	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:23:33	Running ccb (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:25:33	Running 341777 (51)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:27:25	Running 341778 (52)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:29:18	Running 341779 (53)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:31:12	Running 341780 (54)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:33:05	Running 341781 (55)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:34:58	Running 341782 (56)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:36:50	Running 341783 (57)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:38:43	Running 341784 (58)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:40:36	Running 341785 (59)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:42:29	Running lcss45588 (60)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:44:25	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:45:11	Closing will close the method and all associated samples.	NAH	Analyst	
	08/26/2013 13:46:07	Unable to Set Check Table, ICVLL	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/26/2013 13:46:08	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:08	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:09	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:09	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:09	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:09	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:10	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:10	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:11	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:11	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:12	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:12	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:12	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:13	Unable to Set Check Table, ccv1	NAH	Analyst	
	08/26/2013 13:46:13	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:13	Unable to Set Check Table, ccv2	NAH	Analyst	
	08/26/2013 13:46:20	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:48:19	Running ccb (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:50:20	Running mbs45588 (61)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:52:20	Running 341826 (62)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:54:14	Running 341827 (63)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:56:06	Running 341828 (64)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:58:01	Running 341829 (65)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 13:59:53	Running 341830 (66)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:01:45	Running 341831 (67)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:03:37	Running 341832 (68)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:05:30	Running 341833 (69)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:07:22	Running 341834 (70)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:09:15	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:11:08	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:13:06	Running ccb (12)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:15:05	Running 341835 (71)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:17:00	Running 341836 (72)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:19:01	Running 341837 (73)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:19:31	Closing will close the method and all associated samples.	NAH	Analyst	
	08/26/2013 14:20:55	Running 341838 (74)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:22:49	Running 341839 (75)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:24:42	Running 341840 (76)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:26:36	Running 341841 (77)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:28:30	Running 341842 (78)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:30:23	Running 341843 (79)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:32:17	Running 341862 (80)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:34:10	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:36:02	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:38:00	Running ccb (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:40:00	Running l341862 (81)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:41:55	Running dup341862 (82)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:43:49	Running mss341862 (83)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:45:41	Running msds341862 (84)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:47:33	Running pdsw341862 (85)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:49:24	Running 341866 (86)	NAH	Analyst	S_As & Pb only(v61)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/26/2013 14:51:18	Running lcss45589 (87)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:53:15	Running mbs45589 (88)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:55:15	Running 341867 (89)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:57:18	Running l341867 (90)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 14:59:20	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:01:13	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:03:13	Running ccb (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:05:14	Running dup341867 (91)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:07:17	Running mss341867 (92)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:09:08	Running msds341867 (93)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:11:00	Running pdss341867 (94)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:13:00	Running 341868 (95)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:15:03	Running 341869 (96)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:16:58	Running 341870 (97)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:18:51	Running 341871 (98)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:20:46	Running 341872 (99)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:22:39	Running 341873 (100)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:24:30	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:26:22	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:28:21	Running ccb (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:30:22	Running 341874 (101)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:32:16	Running 341875 (102)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:34:09	Running 341876 (103)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:36:02	Running 341877 (104)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:37:55	Running 341878 (105)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:39:48	Running 341879 (106)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:41:41	Running 341880 (107)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:43:34	Running 341881 (108)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:45:27	Running 341882 (109)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:47:22	Running 341883 (110)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:49:13	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:51:06	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:53:05	Running ccb (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:55:07	Running 341884 (111)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:57:00	Running 341885 (112)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 15:58:54	Running 341886 (113)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:00:47	Running msds341798 (114)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:02:38	Running lcss45590 (115)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:04:34	Running mbs45590 (116)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:06:35	Running 341887 (117)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:08:28	Running 341888 (118)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:10:21	Running 341889 (119)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:12:15	Running 341890 (120)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:14:06	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:15:58	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:17:57	Running ccb (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:19:58	Running 341891 (121)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:21:52	Running l341891 (122)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:23:49	Running dup341891 (123)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:25:43	Running mss341891 (124)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:27:35	Running msds341891 (125)	NAH	Analyst	S_As & Pb only(v61)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/26/2013 16:29:28	Running pdss341891 (126)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:31:19	Running 341892 (127)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:33:13	Running 341893 (128)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:35:07	Running 341894 (129)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:37:06	Running 341895 (130)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:38:57	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:40:50	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:42:49	Running ccb (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:44:50	Running 341896 (131)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:46:44	Running 341897 (132)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:48:38	Running 341898 (133)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:50:32	Running 341899 (134)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:52:26	Running 341900 (135)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:54:20	Running 341901 (136)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:56:14	Running 341902 (137)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 16:58:08	Running 341903 (138)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:00:02	Running 341904 (139)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:01:56	Running 341905 (140)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:03:48	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:05:40	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:07:39	Running ccb (21)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:09:41	Running 341906 (141)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:11:45	Running lcss45591 (142)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:13:42	Running mbs45591 (143)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:15:43	Running 341907 (144)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:17:38	Running 341908 (145)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:19:32	Running 341909 (146)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:21:28	Running 341910 (147)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:23:21	Running 341911 (148)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:25:16	Running 341912 (149)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:27:10	Running 341913 (150)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:29:04	Running CCV1 (25)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:30:57	Running CCV2 (26)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:32:56	Running ccb (24)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:34:57	Running l341913 (151)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:36:52	Running dup341913 (152)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:38:46	Running mss341913 (153)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:40:39	Running msds341913 (154)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:42:31	Running pdss341913 (155)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:44:23	Running 341914 (156)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:46:18	Running 341915 (157)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:48:14	Running 341916 (158)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:50:08	Running 341917 (159)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:52:02	Running 341918 (160)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:53:54	Running CCV1 (25)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:55:47	Running CCV2 (26)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:57:45	Running ccb (24)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 17:59:46	Running 341919 (161)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:01:40	Running 341920 (162)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:03:33	Running 341921 (163)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:05:27	Running 341922 (164)	NAH	Analyst	S_As & Pb only(v61)

Type	Date/Time	Message	User name	Application	Sequence Name
	08/26/2013 18:07:20	Running 341923 (165)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:09:14	Running 341924 (166)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:11:08	Running 341925 (167)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:13:01	Running 341926 (168)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:14:54	Running MRL (15)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:16:54	Running CCV1 (25)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:18:47	Running CCV2 (26)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:20:46	Running ccb (24)	NAH	Analyst	S_As & Pb only(v61)
	08/26/2013 18:22:45	Plasma off	NAH	iTEVA Control Center	
	08/26/2013 18:22:46	Plasma extinguished successfully	NAH	Analyst	
	08/26/2013 18:22:48	Autosampler Run Completed	NAH	Analyst	S_As & Pb only(v61)
	08/27/2013 06:58:14	Plasma On	NAH	iTEVA Control Center	
	08/27/2013 06:58:20	Plasma ignition successful	NAH	Analyst	
	08/27/2013 06:58:59	D33534 - Debug:Wavelength check : x = 2.068, y =0.739	NAH	Analyst	
	08/27/2013 08:03:26	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/27/2013 08:04:16	Plasma ignition successful	NAH	Analyst	
	08/27/2013 08:05:00	D33534 - Debug:Wavelength check : x = 1.750, y =0.723	NAH	Analyst	
	08/27/2013 09:24:17	Plasma On	NAH	iTEVA Control Center	
	08/27/2013 09:27:54	Database Copying	NAH	Analyst	
	08/27/2013 09:28:01	Database Copying	NAH	Analyst	
	08/27/2013 09:28:07	Database Copying	NAH	Analyst	
	08/27/2013 09:28:12	Database Copying	NAH	Analyst	
	08/27/2013 09:28:17	Database Copying	NAH	Analyst	
	08/27/2013 09:28:24	Database Copying	NAH	Analyst	
	08/27/2013 09:28:29	Database Copying	NAH	Analyst	
	08/27/2013 09:28:34	Database Copying	NAH	Analyst	
	08/27/2013 09:28:38	Database Copying	NAH	Analyst	
	08/27/2013 09:28:43	Database Copying	NAH	Analyst	
	08/27/2013 11:21:19	iTEVA loaded	NAH	iTEVA Control Center	
	08/27/2013 11:21:38	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/27/2013 11:22:19	Plasma On	NAH	iTEVA Control Center	
	08/27/2013 12:16:09	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:16:09	Autosampler Run Started	NAH	Analyst	
	08/27/2013 12:16:33	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:19:50	E33539 - : Error Updating Method with standard: Standard saturated.	NAH	Analyst	
	08/27/2013 12:19:55	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:23:18	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:26:42	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:30:06	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:32:17	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:34:31	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:34:31	Autosampler Run Started	NAH	Analyst	
	08/27/2013 12:34:55	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:35:30	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:36:19	Autosampler Run Started	NAH	Analyst	
	08/27/2013 12:36:19	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:36:43	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:37:11	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:37:46	Autosampler Run Started	NAH	Analyst	
	08/27/2013 12:37:46	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:38:09	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 12:41:32	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:44:56	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:48:20	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:51:43	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:55:08	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 12:58:32	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:01:53	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:05:11	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:08:20	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:11:10	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:14:38	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:18:01	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:21:39	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:24:58	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:28:14	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:31:36	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:34:44	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:38:01	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:41:25	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:44:50	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:48:12	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:51:31	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:54:29	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 13:57:51	Running icv1 (1)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:01:08	Running lcsw tclp (2)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:04:06	Running mbw tclp (3)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:07:30	Running 342959 (4)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:10:38	Running 342961 (5)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:13:42	Running 342963 (6)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:16:46	Running 343215 (7)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:20:08	Running 343218 (8)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:23:29	Running 343220 (9)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:27:01	Running msw343220 (10)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:30:19	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:32:58	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:35:58	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:39:22	Running lcss45602 (11)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:42:42	Running mbs45602 (12)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:46:05	Running 342614 (13)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:49:20	Running l342614 (14)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:52:35	Running dup342614 (15)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:55:50	Running mss342614 (16)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 14:58:52	Running msds342614 (17)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:02:04	Running pdss342614 (18)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:05:18	Running 342615 (19)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:08:34	Running 342616 (20)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:11:51	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:14:30	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:17:31	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:20:55	Running 342617 (21)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:24:13	Running 342618 (22)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 15:27:31	Running 342619 (23)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:30:48	Running 342620 (24)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:34:00	Running 342621 (25)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:37:16	Running 342622 (26)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:40:23	Running 342623 (27)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:43:28	Running 342624 (28)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:46:33	Running 342625 (29)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:49:44	Running 342626 (30)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:52:50	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:55:30	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 15:58:29	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:01:54	Running 342627 (31)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:05:07	Running 342628 (32)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:08:19	Running 342629 (33)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:11:31	Running 342630 (34)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:14:42	Running 342631 (35)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:17:55	Running 342632 (36)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:21:06	Running 342633 (37)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:24:13	Running lcss45603 (38)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:27:30	Running mbs45603 (39)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:30:53	Running 342634 (40)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:33:58	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:36:39	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:39:42	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:43:07	Running 342635 (41)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:46:12	Running 342636 (42)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:49:18	Running 342637 (43)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:52:24	Running 342638 (44)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:55:30	Running 342639 (45)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 16:58:35	Running 342640 (46)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:01:44	Running 342641 (47)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:04:56	Running 342642 (48)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:08:08	Running 342643 (49)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:11:22	Running 342644 (50)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:14:38	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:17:51	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:21:10	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:24:35	Running 342645 (51)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:27:54	Running 342646 (52)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:31:12	Running 342647 (53)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:34:31	Running 342648 (54)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:37:51	Running 342649 (55)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:41:10	Running l342649 (56)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:44:32	Running dup342649 (57)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:47:51	Running mss342649 (58)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:51:09	Running msds342649 (59)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:54:28	Running pdss342649 (60)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 17:57:44	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:00:59	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:04:19	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:07:44	Running 342650 (61)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 18:11:03	Running 342651 (62)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:14:22	Running 342652 (63)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:17:39	Running 342653 (64)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:20:59	Running lcss45604 (65)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:24:21	Running mbs45604 (66)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:27:45	Running 342654 (67)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:31:04	Running 342655 (68)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:34:23	Running 342656 (69)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:37:42	Running 342657 (70)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:41:00	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:44:15	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:47:35	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:50:59	Running 342658 (71)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:54:23	Running 342659 (72)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 18:57:47	Running 342660 (73)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:01:11	Running 342661 (74)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:04:37	Running 342662 (75)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:08:01	Running 342663 (76)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:11:25	Running 342664 (77)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:14:49	Running 342665 (78)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:18:14	Running 342666 (79)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:21:39	Running 342667 (80)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:25:03	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:28:26	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:31:51	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:35:15	Running 342668 (81)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:38:39	Running 342669 (82)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:42:03	Running 342670 (83)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:45:28	Running 342671 (84)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:48:19	Running l342671 (85)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:51:44	Running dup342671 (86)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:55:09	Running mss342671 (87)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 19:58:34	Running msds342671 (88)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:01:58	Running pdss342671 (89)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:05:22	Running 342672 (90)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:08:47	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:12:11	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:15:35	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:19:00	Running 342673 (91)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:22:25	Running lcss45605 (92)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:25:50	Running mbs45605 (93)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:29:15	Running 342674 (94)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:32:39	Running 342675 (95)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:36:07	Running 342676 (96)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:39:31	Running 342677 (97)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:42:56	Running 342678 (98)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:46:20	Running 342679 (99)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:49:45	Running 342680 (100)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:53:10	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:56:34	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 20:59:59	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 21:03:24	Running 342681 (101)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:06:48	Running 342682 (102)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:10:13	Running 342683 (103)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:13:38	Running 342684 (104)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:17:03	Running 342685 (105)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:20:27	Running 342686 (106)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:23:52	Running 342687 (107)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:27:16	Running 342688 (108)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:30:40	Running 342689 (109)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:34:04	Running 342690 (110)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:37:30	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:40:54	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:44:19	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:47:43	Running 342691 (111)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:51:08	Running l342691 (112)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:54:32	Running dup342691 (113)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 21:57:58	Running mss342691 (114)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:01:23	Running msds342691 (115)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:04:48	Running pdss342691 (116)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:08:13	Running 342692 (117)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:11:38	Running 342693 (118)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:15:03	Running lcss45606 (119)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:18:28	Running mbs45606 (120)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:21:53	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:25:18	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:28:42	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:32:08	Running 342694 (121)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:35:33	Running 342695 (122)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:38:58	Running 342696 (123)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:42:23	Running 342697 (124)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:45:47	Running 342698 (125)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:49:13	Running 342699 (126)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:52:38	Running 342700 (127)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:56:04	Running 342701 (128)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 22:59:29	Running 342702 (129)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:02:54	Running 342703 (130)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:06:20	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:09:44	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:13:10	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:16:35	Running l342703 (131)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:20:00	Running dup342703 (132)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:23:26	Running mss342703 (133)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:26:51	Running msds342703 (134)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:30:16	Running pdss342703 (135)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:33:42	Running 342704 (136)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:37:07	Running 342705 (137)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:40:32	Running 342706 (138)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:43:57	Running 342707 (139)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:47:22	Running 342708 (140)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:50:47	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/27/2013 23:54:12	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/27/2013 23:57:38	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:01:03	Running 342709 (141)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:04:28	Running 342710 (142)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:07:53	Running 342711 (143)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:11:19	Running 342712 (144)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:14:45	Running 342713 (145)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:18:10	Running lcss45607 (146)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:21:35	Running mbs45607 (147)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:25:00	Running 342714 (148)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:28:26	Running l342714 (149)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:31:52	Running dup342714 (150)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:35:17	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:38:42	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:42:07	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:45:32	Running mss342714 (151)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:48:58	Running msds342714 (152)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:52:23	Running pdss342714 (153)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:55:48	Running 342715 (154)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 00:59:13	Running 342716 (155)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:02:38	Running 342717 (156)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:06:02	Running 342718 (157)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:09:28	Running 342719 (158)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:12:53	Running 342720 (159)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:16:18	Running 342721 (160)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:19:44	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:23:09	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:26:35	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:30:01	Running 342722 (161)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:33:27	Running 342723 (162)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:36:53	Running 342724 (163)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:40:19	Running 342725 (164)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:43:44	Running 342726 (165)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:47:08	Running 342727 (166)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:50:33	Running 342728 (167)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:54:00	Running 342729 (168)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 01:57:26	Running 342730 (169)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:00:52	Running 342731 (170)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:04:17	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:07:43	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:11:09	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:14:35	Running 342732 (171)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:18:01	Running 342733 (172)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:21:24	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:24:50	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:28:15	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:31:40	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 02:35:03	Plasma extinguished successfully	NAH	Analyst	
	08/28/2013 02:35:03	Plasma off	NAH	iTEVA Control Center	
	08/28/2013 02:35:05	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 07:04:06	Plasma On	NAH	iTEVA Control Center	
	08/28/2013 07:04:11	Plasma ignition successful	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 07:04:50	D33534 - Debug:Wavelength check : x = 1.938, y =0.746	NAH	Analyst	
	08/28/2013 07:16:33	E9000 - : Plasma went out unexpectedly; please refer to error message	NAH	iTEVA Control Center	
	08/28/2013 07:17:15	Plasma ignition successful	NAH	Analyst	
	08/28/2013 07:17:59	D33534 - Debug:Wavelength check : x = 1.776, y =0.790	NAH	Analyst	
	08/28/2013 08:01:27	Plasma On	NAH	iTEVA Control Center	
	08/28/2013 08:08:39	E9006 - : Plasma went out unexpectedly; RF reported over current failu	NAH	iTEVA Control Center	
	08/28/2013 08:11:22	Plasma On	NAH	iTEVA Control Center	
	08/28/2013 08:11:27	Plasma ignition successful	NAH	Analyst	
	08/28/2013 08:12:13	D33534 - Debug:Wavelength check : x = 1.710, y =0.708	NAH	Analyst	
	08/28/2013 08:55:10	Autosampler Run Started	NAH	Analyst	
	08/28/2013 08:55:10	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 08:55:34	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 08:56:01	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:05:26	Autosampler Run Started	NAH	Analyst	
	08/28/2013 09:05:26	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:05:49	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:06:18	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:07:37	Autosampler Run Started	NAH	Analyst	
	08/28/2013 09:07:37	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:08:00	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:08:15	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:13:29	Autosampler Run Started	NAH	Analyst	
	08/28/2013 09:13:29	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:13:52	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:17:15	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:20:39	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:24:04	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:27:29	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:30:54	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:32:21	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:36:44	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:36:44	Autosampler Run Started	NAH	Analyst	
	08/28/2013 09:37:08	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:40:32	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:43:57	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:47:21	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:50:46	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:54:12	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 09:57:38	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:01:08	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:04:25	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:07:35	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:10:26	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:13:47	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:17:12	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:20:50	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:24:09	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:27:34	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:30:57	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:34:06	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:37:28	Running icb (17)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 10:40:53	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:44:18	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:47:40	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:51:00	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:53:58	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 10:57:21	Running icv2 (24)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:00:41	Running 342635 (41)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:03:56	Running 342636 (42)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:07:01	Running 342637 (43)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:10:14	Running 342638 (44)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:13:35	Running 342639 (45)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:16:56	Running 342640 (46)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:20:10	Running 342641 (47)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:23:24	Running 342642 (48)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:26:37	Running 342643 (49)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:29:49	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:32:53	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:36:06	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:39:29	Running 342644 (50)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:40:19	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:44:21	Autosampler Run Started	NAH	Analyst	
	08/28/2013 11:44:21	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:44:45	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:48:07	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:49:33	Closing will close the method and all associated samples.	NAH	Analyst	
	08/28/2013 11:51:31	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:54:56	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 11:58:21	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:01:46	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:05:10	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:08:33	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:11:51	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:15:01	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:17:53	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:21:03	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:24:27	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:28:06	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:31:24	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:34:50	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:38:12	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:41:22	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:44:40	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:48:06	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:51:30	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:54:52	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 12:58:12	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:01:40	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:05:03	Running icv2 (24)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:08:24	Running 342635 (41)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:11:47	Running 342636 (42)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:15:12	Running 342637 (43)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 13:18:35	Running 342638 (44)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:22:02	Running 342639 (45)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:25:27	Running 342640 (46)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:28:44	Running 342641 (47)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:32:09	Running 342642 (48)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:35:34	Running 342643 (49)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:38:52	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:41:33	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:44:34	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:47:59	Running 342644 (50)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:51:14	Running 342645 (51)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:54:25	Running 342646 (52)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:57:45	Running 342647 (53)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 13:59:07	Autosampler rack position 3839 does not exist.	NAH	Analyst	
	08/28/2013 14:00:58	Running 342648 (54)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:04:11	Running 342649 (55)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:07:24	Running l342649 (56)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:10:52	Running dup342649 (57)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:14:05	Running mss342649 (58)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:17:14	Running msds342649 (59)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:20:23	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:22:28	Closing will close the method and all associated samples.	NAH	Analyst	
	08/28/2013 14:22:36	Closing will close the method and all associated samples.	NAH	Analyst	
	08/28/2013 14:23:12	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:26:12	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:29:38	Running pdss342649 (60)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:32:47	Running 342650 (61)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:36:01	Running 342651 (62)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:39:09	Running 342652 (63)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:42:22	Running 342653 (64)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:45:36	Running lcss45604 (65)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:48:54	Running mbs45604 (66)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:52:19	Running 342654 (67)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:55:30	Running 342655 (68)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 14:58:43	Running 342656 (69)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:01:59	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:04:40	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:07:40	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:11:06	Running 342657 (70)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:14:10	Running 342658 (71)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:17:12	Running 342659 (72)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:20:23	Running 342660 (73)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:23:32	Running 342661 (74)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:26:44	Running 342662 (75)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:29:58	Running 342663 (76)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:33:10	Running 342664 (77)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:36:21	Running 342665 (78)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:39:32	Running 342666 (79)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:42:41	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:45:22	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:48:21	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 15:51:47	Running 342667 (80)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:55:02	Running 342668 (81)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 15:58:21	Running 342669 (82)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:01:31	Running 342670 (83)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:04:49	Running 342671 (84)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:08:10	Running l342671 (85)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:11:39	Running dup342671 (86)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:14:51	Running mss342671 (87)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:18:06	Running msds342671 (88)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:21:16	Running pdss342671 (89)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:24:33	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:27:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:30:15	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:33:41	Running 342672 (90)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:36:55	Running 342673 (91)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:40:07	Running lcss45605 (92)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:43:27	Running mbs45605 (93)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:46:52	Running 342674 (94)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:50:03	Running 342675 (95)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:53:07	Running 342676 (96)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:56:19	Running 342677 (97)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 16:59:29	Running 342678 (98)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:02:36	Running 342679 (99)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:05:45	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:08:25	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:11:26	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:14:52	Running 342680 (100)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:18:03	Running 342681 (101)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:21:14	Running 342682 (102)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:24:25	Running 342683 (103)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:27:36	Running 342684 (104)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:30:49	Running 342685 (105)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:34:00	Running 342686 (106)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:37:02	Running 342687 (107)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:40:09	Running 342688 (108)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:43:12	Running 342689 (109)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:46:22	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:49:04	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:52:05	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:55:31	Running 342690 (110)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 17:58:40	Running 342691 (111)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:01:53	Running l342691 (112)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:05:03	Running dup342691 (113)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:08:14	Running mss342691 (114)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:11:21	Running msds342691 (115)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:14:28	Running pdss342691 (116)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:17:35	Running 342692 (117)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:20:43	Running 342693 (118)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:23:52	Running lcss45606 (119)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:27:12	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:29:59	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 18:33:02	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:36:29	Running mbs45606 (120)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:39:55	Running 342694 (121)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:43:05	Running 342695 (122)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:46:14	Running 342696 (123)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:49:23	Running 342697 (124)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:52:32	Running 342698 (125)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:55:42	Running 342699 (126)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 18:58:53	Running 342700 (127)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:02:05	Running 342701 (128)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:05:18	Running 342702 (129)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:08:32	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:11:18	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:14:21	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:17:48	Running 342703 (130)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:20:59	Running l342703 (131)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:24:21	Running dup342703 (132)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:27:33	Running mss342703 (133)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:30:41	Running msds342703 (134)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:33:48	Running pdss342703 (135)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:36:56	Running 342704 (136)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:40:05	Running 342705 (137)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:43:13	Running 342706 (138)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:46:21	Running 342707 (139)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:49:29	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:52:23	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:55:30	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 19:58:56	Running 342708 (140)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:02:06	Running 342709 (141)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:05:15	Running 342710 (142)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:08:24	Running 342711 (143)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:11:32	Running 342712 (144)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:14:41	Running 342713 (145)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:17:52	Running lcss45607 (146)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:21:13	Running mbs45607 (147)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:24:40	Running 342714 (148)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:27:46	Running l342714 (149)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:31:02	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:33:56	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:37:02	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:40:29	Running dup342714 (150)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:43:36	Running mss342714 (151)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:46:42	Running msds342714 (152)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:49:48	Running pdss342714 (153)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:52:52	Running 342715 (154)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:56:00	Running 342716 (155)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 20:59:11	Running 342717 (156)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:02:20	Running 342718 (157)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:05:31	Running 342719 (158)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:08:40	Running 342720 (159)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:11:51	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 21:14:45	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:17:52	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:21:19	Running 342721 (160)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:24:30	Running 342722 (161)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:27:40	Running 342723 (162)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:30:51	Running 342724 (163)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:34:01	Running 342725 (164)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:37:09	Running 342726 (165)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:40:19	Running 342727 (166)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:43:28	Running 342728 (167)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:46:36	Running 342729 (168)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:49:45	Running 342730 (169)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:52:55	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:55:48	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 21:58:54	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:02:21	Running 342731 (170)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:05:30	Running 342732 (171)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:08:40	Running 342733 (172)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:11:49	Running lcsw45668,67 (1)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:15:04	Running mbw45668,67 (2)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:18:29	Running 339815 (3)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:21:44	Running msw339815 (4)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:24:57	Running msdw339815 (5)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:28:10	Running pdsw339815 (6)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:31:07	Running 339816 (7)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:34:31	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:37:20	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:40:26	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:43:51	Running 342072 (8)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:47:15	Running msw342072 (9)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:50:30	Running msdw342072 (10)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:53:45	Running pdsw342072 (11)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 22:56:46	Running 340892 (12)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:00:07	Running 340893 (13)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:03:28	Running 341967 (14)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:06:48	Running lcsw45675 (15)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:10:13	Running mbw45675 (16)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:13:38	Running 340714 (17)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:17:05	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:20:00	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:23:07	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:26:32	Running l340714 (18)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:29:57	Running dup340714 (19)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:33:22	Running msw340714 (20)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:36:47	Running pdsw340714 (21)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:40:13	Running old pt 267856 (22)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:43:38	Running ab 572 hcl1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:47:03	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:50:30	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:53:24	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/28/2013 23:56:32	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/28/2013 23:59:57	Plasma extinguished successfully	NAH	Analyst	
	08/28/2013 23:59:57	Plasma off	NAH	iTEVA Control Center	
	08/28/2013 23:59:59	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 07:02:40	Plasma On	NAH	iTEVA Control Center	
	08/29/2013 07:02:45	Plasma ignition successful	NAH	Analyst	
	08/29/2013 07:03:25	D33534 - Debug:Wavelength check : x = 1.977, y =0.754	NAH	Analyst	
	08/29/2013 14:00:53	Autosampler rack position 240 does not exist.	NAH	Analyst	
	08/29/2013 14:20:07	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:20:07	Autosampler Run Started	NAH	Analyst	
	08/29/2013 14:20:30	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:23:54	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:26:38	Closing will close the method and all associated samples.	NAH	Analyst	
	08/29/2013 14:27:01	Closing will close the method and all associated samples.	NAH	Analyst	
	08/29/2013 14:28:09	iTEVA loaded	NAH	iTEVA Control Center	
	08/29/2013 14:28:27	Connected to instrument 20082101	NAH	iTEVA Control Center	
	08/29/2013 14:29:09	Plasma On	NAH	iTEVA Control Center	
	08/29/2013 14:31:20	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:31:20	Autosampler Run Started	NAH	Analyst	
	08/29/2013 14:31:44	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:35:09	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:38:35	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:42:01	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:45:27	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:48:54	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:52:20	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:55:44	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 14:59:06	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:02:16	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:05:10	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:08:00	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:11:26	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:15:05	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:18:27	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:21:39	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:25:01	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:28:06	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:31:27	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:34:53	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:38:19	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:41:42	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:45:05	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:48:04	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:51:27	Running icv1 (24)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:54:48	Running lcsw45668,67 (1)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 15:58:25	Running mbw45668,67 (2)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:01:48	Running 339815 (3)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:05:13	Running msw339815 (4)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:08:35	Running msdw339815 (5)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:11:59	Running pdsw339815 (6)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:15:30	Running 339816 (7)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:19:04	Running 342072 (8)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/29/2013 16:22:42	Running msw342072 (9)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:26:06	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:28:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:31:53	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:35:20	Running msdw342072 (10)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:38:46	Running pdsw342072 (11)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:42:20	Running 340892 (12)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:45:55	Running 340893 (13)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:49:31	Running 341967 (14)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:53:04	Running lcsw45675 (15)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:56:28	Running mbw45675 (16)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 16:59:54	Running 340714 (17)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:03:20	Running l340714 (18)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:06:46	Running dup340714 (19)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:10:11	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:12:55	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:15:58	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:19:25	Running msw340714 (20)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:22:50	Running pdsw340714 (21)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:26:16	Running old pt 267856 (22)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:29:40	Running ab 572 hcl1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:33:06	Running lcsw45740 (25)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:36:24	Running mbw45740 (26)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:39:50	Running 340182 (27)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:43:28	Running msw340182 (28)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:46:56	Running msdw340182 (29)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:50:25	Running pdsw340182 (30)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:54:01	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:56:45	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 17:59:47	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:03:13	Running 340183 (31)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:06:29	Running 340184 (32)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:10:05	Running 340185 (33)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:13:39	Running 340186 (34)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:17:14	Running 340187 (35)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:20:51	Running 340188 (36)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:24:27	Running 340929 (37)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:28:03	Running 340936 (38)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:31:37	Running 340937 (39)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:35:13	Running 340939 (40)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:38:48	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:41:36	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:44:38	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:48:04	Running 340941 (41)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:51:41	Running 340955 (42)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:55:17	Running 340957 (43)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 18:58:53	Running 340959 (44)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:02:29	Running 340960 (45)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:06:06	Running 340962 (46)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:09:43	Running 340964 (47)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:13:19	Running lcsw45731 (48)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/29/2013 19:16:33	Running mbw45731 (49)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:20:00	Running 344016 (50)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:23:31	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:26:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:29:17	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:32:43	Running l344016 (51)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:36:18	Running dup344016 (52)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:39:50	Running msw344016 (53)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:43:16	Running msdw344016 (54)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:46:41	Running pdsw344016 (55)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:49:51	Running 344017 (56)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:53:28	Running lcsw45735/33 (57)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 19:57:04	Running mbw45735/33 (58)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:00:30	Running 343159 (59)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:04:07	Running l343159 (60)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:07:30	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:10:14	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:13:16	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:16:42	Running dup343159 (61)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:20:20	Running msw343159 (62)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:23:55	Running msdw343159 (63)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:27:29	Running pdsw343159 (64)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:30:42	Running 343161 (65)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:34:07	Running 343163 (66)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:37:42	Running 343172 (67)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:41:18	Running 340995 (68)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:44:55	Running 341997 (69)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:48:21	Running 340999 (70)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:51:58	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:54:41	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 20:57:43	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:01:10	Running 343142 (71)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:04:47	Running 343149 (72)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:08:25	Running 343151 (73)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:12:03	Running 343155 (74)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:15:41	Running 343157 (75)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:19:20	Running 343168 (76)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:22:58	Running 343170 (77)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:26:37	Running 347842 (78)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:30:14	Running 347851 (79)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:33:52	Running 347855 (80)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:37:30	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:40:14	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:43:15	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:46:42	Running 347858 (81)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:50:20	Running 347860 (82)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:53:58	Running 347864 (83)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 21:57:35	Running lcsw45739/29 (84)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:00:43	Running mbw45739/29 (85)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:04:09	Running 342985 (86)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:07:50	Running msw342985 (87)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/29/2013 22:11:19	Running msdw342985 (88)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:14:47	Running pdsw342985 (89)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:17:56	Running lcsw45734 (90)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:21:11	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:23:55	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:26:57	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:30:25	Running mbw45734 (91)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:33:52	Running 343068 (92)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:37:28	Running l343068 (93)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:40:52	Running dup343068 (94)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:44:28	Running msw343068 (95)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:47:58	Running msdw343068 (96)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:51:27	Running pdsw343068 (97)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:54:46	Running lcsw45730 (98)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 22:58:24	Running mbw45730 (99)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:01:49	Running 341966 (100)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:05:15	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:07:59	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:11:02	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:14:29	Running l341966 (101)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:17:56	Running dup341966 (102)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:21:23	Running msw341966 (103)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:25:01	Running msdw341966 (104)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:28:39	Running pdsw341966 (105)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:31:55	Running 346395 (106)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:35:35	Running msw346395 (107)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:38:51	Running msdw346395 (108)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:42:07	Running 346396 (109)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:45:47	Running 346397 (110)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:49:25	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:52:09	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:55:12	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/29/2013 23:58:40	Running 346398 (111)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:02:19	Running 348227 (112)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:05:55	Running 344533 (113)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:09:33	Running 344534 (114)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:13:11	Running 344535 (115)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:16:47	Running 344536 (116)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:20:23	Running 344537 (117)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:24:02	Running 344538 (118)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:27:41	Running 344539 (119)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:31:16	Running 344540 (120)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:34:51	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:37:35	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:40:38	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:44:06	Running 344541 (121)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:47:45	Running 344542 (122)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:51:22	Running 347560 (123)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:55:01	Running 347561 (124)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 00:58:39	Running 347562 (125)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:02:15	Running 347563 (126)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 01:05:50	Running 347564 (127)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:09:28	Running 347565 (128)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:13:04	Running 347566 (129)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:16:43	Running 347567 (173)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:20:22	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:23:07	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:26:10	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:29:38	Running 347568 (174)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:33:15	Running 347599 (175)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:36:54	Running msw347569 (176)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:40:13	Running msdw347569 (177)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:43:32	Running 346394 (178)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:47:12	Running 342703 (130)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:50:30	Running l342703 (131)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:54:00	Running dup342703 (132)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 01:57:19	Running mss342703 (133)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:00:35	Running msds342703 (134)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:03:51	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:06:43	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:09:46	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:13:12	Running pdss342703 (135)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:16:27	Running 342704 (136)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:19:45	Running 342705 (137)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:23:03	Running 342706 (138)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:26:21	Running 342707 (139)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:29:45	Running 342708 (140)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:33:00	Running 342709 (141)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:36:18	Running 342710 (142)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:39:34	Running 342711 (143)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:42:51	Running 342712 (144)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:46:09	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:49:00	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:52:03	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:55:29	Running 342713 (145)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 02:58:49	Running lcss45607 (146)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:02:08	Running mbs45607 (147)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:05:36	Running 342714 (148)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:08:36	Running l342714 (149)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:12:03	Running dup342714 (150)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:15:18	Running mss342714 (151)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:18:32	Running msds342714 (152)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:21:44	Running pdss342714 (153)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:24:57	Running 342715 (154)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:28:15	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:31:13	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:34:14	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:37:41	Running 342716 (155)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:40:58	Running 342717 (156)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:44:19	Running 342718 (157)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:47:40	Running 342719 (158)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:50:58	Running 342720 (159)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 03:54:21	Running 342721 (160)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 03:57:39	Running 342722 (161)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:00:58	Running 342723 (162)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:04:13	Running 342724 (163)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:07:24	Running 342725 (164)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:10:42	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:13:39	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:16:41	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:20:08	Running 342726 (165)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:23:27	Running 342727 (166)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:26:46	Running 342728 (167)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:30:02	Running 342729 (168)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:33:25	Running 342730 (169)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:36:43	Running 342731 (170)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:40:00	Running 342732 (171)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:43:17	Running 342733 (172)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:46:36	Running ab573 (179)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:49:57	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:53:22	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:56:08	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 04:59:09	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 05:02:34	Plasma extinguished successfully	NAH	Analyst	
	08/30/2013 05:02:35	Plasma off	NAH	iTEVA Control Center	
	08/30/2013 05:02:36	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:10:10	Plasma On	NAH	iTEVA Control Center	
	08/30/2013 08:10:16	Plasma ignition successful	NAH	Analyst	
	08/30/2013 08:10:55	D33534 - Debug:Wavelength check : x = 2.028, y =0.756	NAH	Analyst	
	08/30/2013 08:30:04	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:30:04	Autosampler Run Started	NAH	Analyst	
	08/30/2013 08:30:28	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:33:53	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:37:19	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:40:50	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:44:17	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:47:44	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:51:21	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:54:46	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 08:58:08	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:01:20	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:04:13	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:07:10	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:10:36	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:14:20	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:17:41	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:21:01	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:24:25	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:29:05	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:32:26	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:35:53	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:39:19	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:42:42	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 09:45:55	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:49:04	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:51:51	Closing will close the method and all associated samples.	NAH	Analyst	
	08/30/2013 09:52:29	Running lcss45745 (1)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:55:53	Running mbs45745 (2)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 09:59:17	Running 340876 (3)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:02:33	Running mss340876 (4)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:05:51	Running msds340876 (5)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:09:05	Running pdss340876 (6)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:12:11	Running 340877 (7)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:15:24	Running 342958 (8)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:18:24	Running 342960 (9)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:21:27	Running 342962 (10)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:24:31	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:27:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:30:17	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:33:45	Running 347584 (11)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:37:07	Running 347585 (12)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:40:24	Running 347586 (13)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:43:42	Running 347587 (14)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:46:59	Running 347588 (15)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:50:16	Running 347589 (16)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:53:31	Running 347590 (17)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 10:56:48	Running 347591 (18)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:00:03	Running 347592 (19)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:03:22	Running 347593 (20)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:06:42	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:09:26	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:12:29	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:15:56	Running 347594 (21)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:19:17	Running 348223 (22)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:22:34	Running lcss45744 (23)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:25:57	Running mbs45744 (24)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:29:23	Running 341949 (25)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:32:36	Running 341958 (26)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:35:51	Running 341959 (27)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:39:07	Running 341960 (28)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:42:18	Running 341961 (29)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:45:28	Running l341961 (30)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:48:40	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:51:25	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:54:28	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 11:57:55	Running dup341961 (31)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:01:06	Running mss341961 (32)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:04:09	Running msds341961 (33)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:07:12	Running pdss341961 (34)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:10:16	Running blk1 (35)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:13:42	Running icsa1 (36)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:17:10	Running icsab1 (37)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:20:16	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:23:39	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	08/30/2013 12:26:23	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:29:26	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	08/30/2013 12:32:52	Plasma off	NAH	iTEVA Control Center	
	08/30/2013 12:32:52	Plasma extinguished successfully	NAH	Analyst	
	08/30/2013 12:32:54	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	09/04/2013 14:21:49	Plasma On	NAH	iTEVA Control Center	
	09/04/2013 14:21:55	Plasma ignition successful	NAH	Analyst	
	09/04/2013 14:22:37	D33534 - Debug:Wavelength check : x = 1.921, y =0.753	NAH	Analyst	
	09/04/2013 17:15:17	Autosampler Run Started	NAH	Analyst	
	09/04/2013 17:15:17	Sequence Started	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:15:30	Running Blank (1)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:17:31	Running CalibStd=5 (2)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:19:34	Running CalibStd=10 (3)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:21:37	Running CalibStd=50 (4)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:23:40	Running CalibStd=100 (5)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:25:43	Running CalibStd=1000 (6)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:27:43	Running CalibStd=10000 (7)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:29:36	Running CalibStd-100k (8)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:31:31	Running CalibStd=500000 (9)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:33:27	Running CalibStd-1000k (10)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:35:31	Running ICV1 (16)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:37:30	Running ICV2 (17)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:39:28	Running icvLL (20)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:41:29	Running icb (11)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:43:32	Running MRL (15)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:45:36	Running icsa (13)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:47:33	Running icsab (14)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:49:27	Running lcss45658 (1)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:51:26	Running mbs45658 (2)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:53:28	Running 344436 (3)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:55:25	Running 344437 (4)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:57:20	Running 344438 (5)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 17:59:15	Running 344439 (6)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:01:10	Running 344440 (7)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:03:06	Running 344441 (8)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:05:02	Running 344442 (9)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:06:59	Running 344443 (10)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:08:55	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:10:53	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:12:54	Running ccb (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:14:58	Running 344444 (11)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:16:54	Running 344445 (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:18:50	Running 344446 (13)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:20:47	Running 344447 (14)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:22:42	Running 344448 (15)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:24:39	Running 344449 (16)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:26:35	Running 344450 (17)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:28:31	Running l344450 (18)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:30:30	Running dup344450 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:32:26	Running mss344450 (20)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:34:20	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v63)

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 18:36:18	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:38:19	Running ccb (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:40:22	Running msds344450 (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:42:17	Running pdss344450 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:44:11	Running 344451 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:46:07	Running 344452 (24)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:48:03	Running 344453 (25)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:49:58	Running 344454 (26)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:51:55	Running 344455 (27)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:53:50	Running lcss45676 (28)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:55:49	Running mbs45676 (29)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:57:52	Running 344456 (30)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 18:59:48	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:01:45	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:03:47	Running ccb (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:05:50	Running l344456 (31)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:07:47	Running dup344456 (32)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:09:52	Running mss344456 (33)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:11:46	Running msds344456 (34)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:13:40	Running pdss344456 (35)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:15:44	Running 344457 (36)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:17:40	Running 344458 (37)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:19:37	Running 344459 (38)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:21:34	Running 344460 (39)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:23:29	Running 344461 (40)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:25:25	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:27:23	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:29:25	Running ccb (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:31:28	Running 344462 (41)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:33:24	Running 344463 (42)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:35:20	Running 344464 (43)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:37:18	Running 344465 (44)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:39:13	Running 344466 (45)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:41:10	Running 344467 (46)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:43:06	Running 344468 (47)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:45:03	Running 344954 (48)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:46:59	Running 344955 (49)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:48:55	Running 344956 (50)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:50:50	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:52:48	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:54:49	Running ccb (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:56:52	Running 344957 (51)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 19:58:50	Running 344958 (52)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:00:46	Running 344959 (53)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:02:42	Running 344960 (54)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:04:39	Running lcss45677 (55)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:06:38	Running mbs45677 (56)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:08:41	Running 344961 (57)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:10:38	Running 344962 (58)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:12:34	Running 344963 (59)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:14:31	Running 344964 (60)	NAH	Analyst	S_As & Pb only(v63)

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 20:16:27	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:18:24	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:20:26	Running ccb (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:22:30	Running 344965 (61)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:24:26	Running 344966 (62)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:26:22	Running 344967 (63)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:28:18	Running 344968 (64)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:30:15	Running 344969 (65)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:32:10	Running 344970 (66)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:34:08	Running 344971 (67)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:36:04	Running 344972 (68)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:38:00	Running 344973 (69)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:39:56	Running 344974 (70)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:41:51	Running CCV1 (18)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:43:48	Running CCV2 (19)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:45:50	Running ccb (12)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:47:54	Running l344974 (71)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:49:52	Running dup344974 (72)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:51:47	Running mss344974 (73)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:53:41	Running msds344974 (74)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:55:35	Running pdss344974 (75)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:57:28	Running 344975 (76)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 20:59:24	Running 344976 (77)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:01:20	Running 344977 (78)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:03:16	Running 344978 (79)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:05:13	Running 344979 (80)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:07:08	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:09:05	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:11:07	Running ccb (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:13:11	Running 344980 (81)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:15:07	Running lcss45678 (82)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:17:06	Running mbs45678 (83)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:19:10	Running 344981 (84)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:21:07	Running 344982 (85)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:23:04	Running 344983 (86)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:25:00	Running 344984 (87)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:26:56	Running 344985 (88)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:28:53	Running 344986 (89)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:30:49	Running 344987 (90)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:32:44	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:34:40	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:36:43	Running ccb (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:38:47	Running 344988 (91)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:40:44	Running 344989 (92)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:42:40	Running 344990 (93)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:44:38	Running 344991 (94)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:46:35	Running 344992 (95)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:48:33	Running 344993 (96)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:50:29	Running 344994 (97)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:52:26	Running 344995 (98)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:54:23	Running l344995 (99)	NAH	Analyst	S_As & Pb only(v63)

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 21:56:21	Running dup344995 (100)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 21:58:16	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:00:11	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:02:14	Running ccb (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:04:18	Running mss344995 (101)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:06:13	Running msds344995 (102)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:08:08	Running pdss344995 (103)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:10:03	Running 344996 (104)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:12:00	Running 344997 (105)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:13:56	Running 344998 (106)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:15:53	Running 344999 (107)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:17:49	Running 345000 (108)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:19:46	Running lcss45679 (109)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:21:46	Running mbs45679 (110)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:23:48	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:25:45	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:27:47	Running ccb (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:29:51	Running 345001 (111)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:31:48	Running 345002 (112)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:33:44	Running 345003 (113)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:35:41	Running 345004 (114)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:37:38	Running 345005 (115)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:39:34	Running 345006 (116)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:41:31	Running 345007 (117)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:43:27	Running 345008 (118)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:45:24	Running 345009 (119)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:47:22	Running 345010 (120)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:49:17	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:51:13	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:53:16	Running ccb (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:55:20	Running 345011 (121)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:57:17	Running 345012 (122)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 22:59:14	Running 345013 (123)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:01:12	Running 345014 (124)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:03:10	Running 345015 (125)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:05:08	Running 345016 (126)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:07:06	Running 345017 (127)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:09:03	Running l345017 (128)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:11:01	Running dup345017 (129)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:12:58	Running mss345017 (130)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:14:52	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:16:48	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:18:51	Running ccb (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:20:56	Running msds345017 (131)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:22:51	Running pdss345017 (132)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:24:47	Running 345018 (133)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:26:44	Running 345020 (134)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:28:41	Running 345021 (135)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:30:38	Running lcss45680 (136)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:32:38	Running mbs45680 (137)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:34:43	Running 345022 (138)	NAH	Analyst	S_As & Pb only(v63)

Type	Date/Time	Message	User name	Application	Sequence Name
	09/04/2013 23:36:40	Running 345023 (139)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:38:37	Running l345023 (140)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:40:33	Running CCV1 (22)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:42:30	Running CCV2 (23)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:44:32	Running ccb (21)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:46:37	Running dup345023 (141)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:48:34	Running mss345023 (142)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:50:30	Running msds345023 (143)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:52:26	Running pdss345023 (144)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:54:21	Running 345024 (145)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:56:19	Running 345025 (146)	NAH	Analyst	S_As & Pb only(v63)
	09/04/2013 23:58:16	Running 345026 (147)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:00:13	Running 345027 (148)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:02:10	Running 345028 (149)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:04:07	Running 345029 (150)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:06:04	Running CCV1 (25)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:08:02	Running CCV2 (26)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:10:03	Running ccb (24)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:12:08	Running 345030 (151)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:14:05	Running 345031 (152)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:16:03	Running 345032 (153)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:18:01	Running 345033 (154)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:20:00	Running 345034 (155)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:21:58	Running 345035 (156)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:23:56	Running 345036 (157)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:25:55	Running 345037 (158)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:27:54	Running 345038 (159)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:29:52	Running 345039 (160)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:31:48	Running CCV1 (25)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:33:47	Running CCV2 (26)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:35:49	Running ccb (24)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:37:54	Running 345040 (161)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:39:53	Running 345041 (162)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:41:49	Running MRL (15)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:43:53	Running CCV1 (25)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:45:51	Running CCV2 (26)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:47:53	Running ccb (24)	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 00:49:56	Plasma extinguished successfully	NAH	Analyst	
	09/05/2013 00:49:56	Plasma off	NAH	iTEVA Control Center	
	09/05/2013 00:49:58	Autosampler Run Completed	NAH	Analyst	S_As & Pb only(v63)
	09/05/2013 07:42:45	Plasma On	NAH	iTEVA Control Center	
	09/05/2013 07:42:49	Plasma ignition successful	NAH	Analyst	
	09/05/2013 07:43:29	D33534 - Debug:Wavelength check : x = 1.966, y =0.746	NAH	Analyst	

#M116692 09/04/13 As 1000mg/L SPEX certiprep Lot# 18-131ASY ex. 8/30/14
MDS

#M116693 09/04/13 Pb 1000mg/L SPEX certiprep Lot# 19-01PBY ex. 8/30/14
MDS

#M11677 8-20-13 As 1000mg/L Spex Certiprep Lot # 18-13IAs0. ex 8/30/14

#M11678 8-20-13 Pb 1000 mg/L Spex Certiprep Lot# 19-01PBY ex: 8/30/14

#M11679 8-20-13 S 10,000 mg/L SPC Science Lot# S13072402I exp 5/15

#M11680 08/22/13SF (Fisher) Hydroxylamine Sulfate Lot#1274466 Exp: 08/22/14

#M11681 8-22-13 Spex Certiprep Lot# 4-20NP ex 8/14 (Custom Iss. Std)

#M11682 8-22-13 CPI Pb, 10,000 mg/L Lot# 11J007 ex 2/15

#M11683 08/22/13SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB: 565) and 128.6mL 10N NaOH (#M10507). Dilute to 20L with D.I. H2O and mix. pH = 4.93±0.05
Exp: 08/22/14

#M11684 08/22/13SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB: 565) and 128.6mL 10N NaOH (#M10507). Dilute to 20L with D.I. H2O and mix. pH = 4.93±0.05
Exp: 08/22/14

set 10mls
w/ DI H2O

pipet 50mls
flask w/ DI H2O.

2/15

2/15

2/15

2/15

acid (#M11285)
& D.I. H2O.

(#M11493) and
M11376) in 50 ml

#M11685 08/29/13SF

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11686 08/29/13SF Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11687 08/29/13SF Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11686) into 100ml = 3.0ug/L Hg
#M11688 08/29/13SF Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11689 08/29/13SF Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11686) into 100ml = 0.2ug/L Hg
#M11690 08/29/13SF Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11691 08/29/13SF Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11618 8-13-13 MRL/ICVLL onto 1000 ml vol flask pipet the following => master standard

.5% HCl, HNO3

Bring upto mark with DI H2O.

8/12/13

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M11170	1000	1
Al	400	M11537	10000	2
Ba	10	M11052	1000	0.5
Be	4	M11239	1000	0.2
Cd	5	M11242	1000	0.25
Co	10	M11355	1000	0.5
Cr	10	M11053	10000	0.05
Cu	10	M11051	10000	0.05
Mg	500	M11536	10000	2.5
Mn	10	M11054	10000	0.05
Mo	10	M11357	1000	0.5
Ni	10	M11358	1000	0.5
Pb	10	M11400	1000	0.5
Sb	20	M11172	1000	1
V	10	M11241	1000	0.5
Zn	10	M11240	10000	0.05
K	1000	M11243	10000	5
Na	1000	M11366	10000	5
As	20	M11173	1000	1.
Ca	500	M11539	10000	2.5
Fe	300	M11535	10000	1.5
Se	20	M11171	10000	0.1
Tl	20	M11361	1000	1
Si	100	M11356	1000	5
B	20	M11205	1000	1
Li	20	M11362	1000	1
W	50	M11365	1000	2.5
Tl	10	M11364	1000	0.5
Sr	10	M11360	1000	0.5
Sn	50	M11359	1000	2.5
S	100	M11343	1000	5

#M11677 8-20-1

#M11678 8

#M11679

#M11680 08/12/13

#M11681 8-2

#M11682 8-2

#M11683 08/22/1

#M11684 8/22/13

#M11619 8-13-13 MRL onto 500 ml vol flask pipet 10mls .5% HCl, HNO3 of Master Std #M11618. Bring upto mark wit DI H2O

#M11620 8-13-13 ICVLL onto 500 ml vol flask pipet 50mls 0.5% HCl, HNO3 of Master Std #M11618. Bring up to mark wit DI H2O. 8-19-13

#M11621 8-19-13 Na 1000 mg/L CPI Lot 13E226 ex 2/15

#M11622 8-19-13 Fe 10,000mg/L CPI Lot 13H100 ex 2/15

#M11623 8-19-13 K 10,000 mg/L CPI Lot 13H099 ex 2/15

#M11624 8-19-13 K 1000 mg/L CPI Lot 13E108 ex 2/15

#M11675 08/20/13 5F Potassium permanganate Solin: 50g potassium permanganate (#M11285) dissolve into 1000ml of D.I. H2O. Exp: 02/20/14

#M11676 08/20/13 5F NaCl Hydroxylamine Sulfate Reagent: Dissolve into 60g NaCl (#M11493) and 60g hydroxylamine sulfate (#M11336) in 500ml Milli-Q H2O. Exp: 02/20/14

[redacted]

#M11606 Continuing Calibration Standard 1(CCV1)

8-7-13 JA

5% HCl
5% HNO3

Into a one liter volmetric flask pipet 50mls of # M11584b (ex 07/14)
and 5 ml of #M11585 (ex 07/14).
ex. 07/14
Bring up to mark with DI H2O

#M11607 Continuing Calibration Standard 2(CCV2)

8-7-13 JA

5% HCl+HNO3

Into a one liter volmetric flask pipet 5 mls of # M11584b (ex 7/14)
and 0.5 ml of #M11585 (ex 07/14).
ex. 7/14
Bring up to mark with DI H2O

#M11608 Initial Calibration Standard (ICV)

8-7-13 JA

5% HCl
+ HNO3

Into one liter volumetric flask pipet 10 mls of M11542 (ex 6/14)
2.0 mls of #m11399 (ex 03/14) and 0.5 mls #M11357 Mo (ex 08/14) and 0.5 mls
of #M11205 B (ex 5/14) bring up to mark with DI H2O

HNO3 (AB: 554)

Chloride (#M11558) in

3-19SNY

#M11609 ICSAB (DODcal) into 500 ml vol flask pipet 50 mls #M11399
5% HCl 8-7-13 2.5 mls #M11584b, 2.5 mls #M11585, 15mls #M11535. Bring up to mark
5% HNO3 JA w/ DI H_2O. ex 3/14.

#M11610 ICSA (DODcal) into 500 ml vol flask pipet 50 mls #M11399
5% HCl 8-7-13 15 mls #M11535 bring up to mark with DI H_2O ex 3/14
5% HNO3 JA

#M11611 08/13/13SF Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11612 08/13/13SF Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11613 08/13/13SF Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11612) into 100ml = 3.0ug/L Hg

#M11614 08/13/13SF Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11615 08/13/13SF Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11612) into 100ml = 0.2ug/L Hg

#M11616 08/13/13SF Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554) ,.

#M11617 08/13/13SF Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in
70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

ug/L std
tric flask= 1000 ug/L std

l0 mls #M11400 Pb (ex 3-14),

,10 mls #M11537 AL (ex 12/14)

), 50 mls #M11537 AL (ex 12/14)

2/14),100 mls #M11537 AL (ex 12/14)

ex 2-14

#M11597 08/05/13/5F — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11598 08/05/13/5F — Hg All Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11599 08/05/13/5F — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11598) into 100ml = 3.0ug/L Hg

#M11600 08/05/13/5F — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11601 08/05/13/5F — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11598) into 100ml = 0.2ug/L Hg

#M11602 08/05/13/5F — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11603 08/05/13/5F — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11604 8-6-13 JA — Spex CertiPrep Custom Assurance Std Lot # 3-195NY ex Aug 2014.

#M11605 8-7-13 JA

ICAP Working Standards
5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M11584b(ex 07/14) and 1.0 mls of #M11585 (ex 07/14) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M11584b(ex 07/14) and #M11585 (ex 07/14) and 1 mL of #M11356 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M11584b (ex 07/14),100 mls #M11585 (ex 07/14),
100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 100 mls #M11400 Pb (ex 3-14), 10 mls zn #M11240(ex 6-14), 10 mls #M11366 Na (ex 8/14)= 100,000 ug/L 10 mls of #M11607 AS (ex 8/14)
100,000	10 mls of #M11536 Mg (ex 12/14) , 10 mls of #M11535 Fe (ex 12/14) ,10 mls of #M11539 Ca (ex 12/14),10 mls #M11537 AL (ex 12/14) , into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M11536 Mg (ex 12/14) , 50 mls of #M11535 Fe (ex 12/14) ,50 mls of #M11539 Ca (ex 12/14), 50 mls #M11537 AL (ex 12/14) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M11536 Mg (ex 12/14) , 100 mls of #M11535 Fe (ex 12/14) ,100 mls of #M11539 Ca (ex 12/14),100 mls #M11537 AL (ex 12/14) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

ex 2-14

#M11606 C
8-7-13 JA
5% HCL
5% HNO3

#M11607 C
8-7-13 JA
5% HCL + HNO3

#M11608 I
8-7-13 JA
5% HCL
+ HNO3

#M11609 I
5% HCL 8-7-13
5% HNO3 JA

#M11610
5% HCL 8-7-13
5% HNO3 JA

#M11611 08/13/13/5F

#M11612 08/13/13/5F

#M11613 08/13/13/5F

#M11614 08/13/13/5F

#M11615 08/13/13/5F

#M11616 08/13/13/5F

#M11617 08/13/13/5F

H2O. Add 114mL
and 128.6mL
dilute to 2L with
D.I.H2O

1938, product # 39043

#10-70YP

expect 50 mls
M11573 & M11585.
9/13

H2O. Add 114mL
10N NaOH
H2O and mix.

(AB: 554)

w/ D.I. H2O.

with D.I. H2O.

#M11584b 7-29-13 Custum Assurance std 100mg/L(22) Spex Certiprep Lot# 20-105CR.
7A ex 7/14.

#M11585 7-29-13 Custum Assurance std 100mg/L(3) Spex Certiprep Lot# 20-104CR.
7A ex 7/14

#M11586 07/30/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11587 07/30/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11588 07/30/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11587) into 100ml = 3.0ug/L Hg
#M11589 07/30/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11590 07/30/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11587) into 100ml = 0.2ug/L Hg
#M11591 07/30/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11592 07/30/13 SF 07/30/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11492) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11593 07/31/13 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve into 60g NaCl (#M11493) and 60g hydroxylamine Sulfate (#M11376) in 500mL Milli-Q H2O.
Exp: 01/31/13

#M11594 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I.H2O. Add 114mL Glacial Acetic (AB.565) and 128.6mL 10N NaOH (M11507). Dilute to 20L with D.I. H2O + mix. pH = 4.93±0.05

#M11595 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I H2O. Add 114ml Glacial Acetic (AB.565) and 128.6mL 10N NaOH (M11507). Dilute to 20L with D.I H2O. pH = 4.93±0.05

#M11596 08/02/13 SF Potassium permanganate Soln: 50g Potassium permanganate (#M11285) dissolve into 1000mL of D.I. H2O.
Exp: 02/02/14

#M11571 07/16/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB: 565) and 128.6 mL 10 N NaOH (#M11507). ~~07/16/13 SF~~ Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 07/16/14

#M11572 07/16/13 MDS Nickel Nitrate Matrix Modifier Sol'n Alfa Aesar - Specpure Lot # 32-441193E, product # 39043

exp. 07/14

M11573 07/16/13 JH Spex Certiprep Custom Assurance std Lot # 10-70YP

ex. 7/30/14

M11574 7-17-13 JH ICSAB into 500 mL Vol flask pipet 50 mL of #M11399 15mL #M11535 2.5mL of #M11573 & M11085

Bring up to mark with DI H_2O ex 9/13

#M11575 07/23/13SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic (AB: 565) and 128.6 mL 10 N NaOH (#M11507). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 07/23/14

M11576 07/24/13SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M11577 07/24/13SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M11578 07/24/13SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11577) into 100ml = 3.0ug/L Hg
M11579 07/24/13SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M11580 07/24/13SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11577) into 100ml = 0.2ug/L Hg
M11581 07/24/13SF	Hg Aqua Regia Reagent:	"Carefully" in hood; mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
M11582 07/24/13SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11492) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

M11583 07/25/13 MDS GFAA Base Std. Into a Liter vol. Flask, pipet 0.25mL #M11430. Bring up to volume w/ D.I. H_2O.

exp: 05/14

M11584 07/25/13 MDS GFAA ICV (alt source) - Into a Liter vol Flask, pipet 1mL #M11431. Bring up to volume with D.I. H_2O.

#M11584 7-29-13 JH Custom Assurance std 100mg/L(22) Spex Certiprep

ex 7/14

#M11585 7-29-13 JH Custom Assurance std 100mg/L(3) Spex Certiprep

ex 7/14

#M11586 07/30/13SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10m 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11587 07/30/13SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10m 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11588 07/30/13SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11587) into 100ml = 3.0
#M11589 07/30/13SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11590 07/30/13SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11587) into 100ml = 0.2
#M11591 07/30/13SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) wit
#M11592 07/30/13SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g S 70 mL HCl (AB: 553). Bring up to volume with D

#M11593 07/31/13SF NaCl Hydroxylamine Sulfate Reagent: Dissolve into 600g NaCl (= hydroxylamine Sulfate (#M H_2O.

Exp: 01/31/13

#M11594 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add and 128.6mL 10N NaOH (M11507). Dilute pH = 4.93 ± 0.05

#M11595 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114ml and 128.6mL 10N NaOH (M11507). Dilut pH = 4.93 ± 0.05

#M11554 07/10/13 5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11555 07/10/13 5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11552) into 100ml = 0.2ug/L Hg
#M11556 07/10/13 5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11557 07/10/13 5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.
#M11558 07/08/13 5F	Stannous Chloride (Macron) - Lot# 0000045932	
#M11559 07/10/13 MOS exp. 05/14	GFAA Base Std. - Into a Liter vol. Flask, pipet 0.25ml #M11430. Bring up to volume with D.I water.	
#M11560 07/10/13 MOS	GFAA ICV (Alt. Source) - Into a 1-Liter vol. Flask, pipet 1ml #M11431 + bring up to volume with D.I water.	
#M11561 07/10/13 MOS	GFAA CCV - Into a 1-Liter vol. Flask, pipet 0.1ml #M11430 + bring up to volume with D.I water.	
#M11562 07/10/13 5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11563 07/10/13 5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11564 07/10/13 5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11563) into 100ml = 3.0ug/L Hg
#M11565 07/10/13 5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11566 07/10/13 5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11563) into 100ml = 0.2ug/L Hg
#M11567 07/10/13 5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11568 07/10/13 5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11492) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.
#M11569 07/15/13 5F Exp: 07/15/14	Potassium permanganate soln	50g Potassium permanganate (#M11485) dissolve into 1000ml of D.I. H2O.
#M11570 07/16/13 5F Exp: 07/16/14	TCLP Extraction Fluid #1	Fill a 20L carboy w/19L D.I. H2O. Add 11.4ml (AB: 553) and 128.6ml 10N NaOH (#M11344). Dilute to 20L. 07/16/13 5F

2mate (#M11285)
= D.I. H2O.

Prep Lot # 3-80xL

0mg/L Hg

10mg/L Hg

3.0ug/L Hg

10mg/L Hg

0.2ug/L Hg

with 1part HNO3 (AB: 554)

g Stannous Chloride (#M11075) in
h D.I. Water.

131349 exp 12/14

I10563) into 100ml=10mg/L Hg
00ml = 100ug/L Hg
00ml = 0.5ug/L Hg
00ml = 1.0ug/L Hg
00ml = 2.0ug/L Hg
00ml = 4.0ug/L Hg
00ml =5.0ug/L Hg
100ml = 10.0ug/L Hg

M9063) into 100ml = 10mg/L Hg
nl = 100ug/L Hg

M552) into 100ml = 3.0ug/L Hg

#M11538 06/24/13 13F Na 1000mg/L CPI Lot# 13E225 Exp: 12/14/14

#M11539 06/24/13 13F Ca 10,000mg/L CPI Lot# 13B105 Exp: 12/14/14

M11540 06/24/13 13F K 1000mg/L CPI Lot# 13E108 Exp: 12/14/14

M11541 06/25/13 13F Potassium permanganate soln: 50g Potassium permanganate (#M11285) dissolve into 1,000mL of DI. H2O. Exp: 12/25/13

M11542 06/26/13 Custom Assurance std Spex CertiPrep Lot # 3-8[illegible] ex 6/14.

#M11543 06/26/13 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11544 06/26/13 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11545 06/26/13 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11544) into 100ml = 3.0ug/L Hg
#M11546 06/26/13 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11547 06/26/13 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11544) into 100ml = 0.2ug/L Hg
#M11548 06/26/13 13F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11549 06/26/13 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11675 in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11550 6-26-1321 10,000 µg/mL Env Express Lot #1311349 ex 12/14

#M11551 07/02/13 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11552 07/02/13 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11553 07/02/13 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11552) into 100ml = 3.0ug/L Hg

#M11523 06/13/13 MDS GFAA LOD/LOQ Water Spiking Soln: Into a 1L vol. Flask, Pipet 10mL of #M11522 (1% HNO_3) and bring up to volume with D.I water.

#M11524 06/13/13 LSF Potassium persulfate: 50g potassium persulfate (#M9903) dissolve into 1,000mL D.I. H_2O. Exp: 12/13/13

#M11525 06/14/13 MDS GFAA LOD/LOQ Soil Working Std: Into a 200mL vol. Flask partially filled with D.I H_2O, pipet the Following and bring up to volume with D.I H_2O.

1.2mL Sb 1000mg/L (#M11172) = 6,000ug/L Sb
3.2mL As 1000mg/L (#M11173) = 16,000ug/L As
3.2mL Se 1000mg/L (#M11171) = 16,000ug/L Se
0.08mL Pb 10,000mg/L (#M10637A) = 4,000ug/L Pb
1.0mL Tl 1000mg/L (#M11361) = 5,000ug/L Tl

#M11526 06/14/13 MDS GFAA LOD/LOQ Soil Spiking Soln: Into a 1L vol. Flask, pipet 10mL of #M11525 + bring up to volume with DI H_2O.

#M11527 06/17/13 LSF — Hg Working Stds: (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11528 06/17/13 LSF — Hg Alt Source Working Std: (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg .

#M11529 06/17/13 LSF — Hg ICV / LCSW (0.2% HNO_3, HCl)
3.0ml of 100ug/L Hg (#M11528) into 100ml = 3.0ug/L Hg

#M11530 06/17/13 LSF — Hg CCV (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11531 06/17/13 LSF — Hg MRL: (0.2% HNO_3, HCl)
0.2ml of 100ug/L Hg (#M11528) into 100ml = 0.2ug/L Hg

#M11532 06/17/13 LSF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO_3 (AB: 554)

#M11533 06/17/13 LSF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11534 06/20/13 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve into 60g NaCl (#M11493) and 60g hydroxylamine sulfate (#M11376) in 500mL Milli-Q H_2O. Exp: 12/20/13

#M11535 06/24/13 LSF Fe 10,000 mg/L CPI Lot# 13D184 Exp: 12/14/14

#M11536 06/24/13 LSF Mg 10,000 mg/L CPI Lot# 13B063 Exp: 12/14/14

#M11537 06/24/13 LSF Al 10,000 mg/L CPI Lot# 13D129 Exp: 12/14/14

#M11511 06/10/13 JSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M11493) and 60g hydroxylamine Sulfate (#M11376) in 500ml Milli-a H2O.
Exp: 12/10/13

#M11512 06/10/13 JSF Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11513 06/10/13 JSF Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11514 06/10/13 JSF Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M11573) into 100ml = 3.0ug/L Hg

#M11515 06/10/13 JSF Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11516 06/10/13 JSF Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M11573) into 100ml = 0.2ug/L Hg

#M11517 06/10/13 JSF Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11518 06/10/13 JSF Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11519 06/12/13 MDS Pd/Mg Modifier- Into a 50mL vol. flask, pipet 15mL #M11411 and 5mL #M10551. Bring up to volume with milli-Q H2O.

#M11520 06/13/13 MDS GFAA LOD/LOQ Soil Ag Spiking Sol'n: (1% HNO3)
Into a 1L vol. Flask, pipet 10mL of #M11521 and bring up to volume w/ D.I water.
exp 04/24/14

#M11521 06/13/13 MDS GFAA LOD/LOQ Soil Ag Working Std: (1% HNO3)
Into a 200mL vol. Flask, partially filled w/ D.I water, pipet the following and bring up to volume w/ D.I H2O.
0.12 mL Ag 1000mg/L (#M11170) = 600 ug/L Ag
exp: 04/24/14

#M11522 06/13/13 MDS GFAA LOD/LOQ Water Working Std: (1% HNO3)
Into a 100mL vol. Flask, partially Filled with D.I H2O, pipet the Following + bring up to volume w/ D.I H2O.
1.5mL Sb 1000mg/L (#M11172) = 15,000 ug/L Sb
1.0mL As 1000mg/L (#M11173) = 10,000 ug/L As
2.0mL Se 1000mg/L (#M11171) = 20,000 ug/L Se
0.045mL Pb 10,000 mg/L (#M10839) = 4500 ug/L Pb
0.4mL Tl 1000 mg/L (#M11361) = 4000 ug/L Tl
0.1mL Ag 1000 mg/L (#M11170) = 1000 ug/L Ag

#M11523 06/13/13 MDS

#M11524 06/13/13 JSF
Exp

#M11497 05/28/13 JSF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 05/28/14

#M11498 05/31/13 JSF Potassium permanganate Soln: 50g potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O.

Exp: 11/05/13 12/05/13 JSF

#M11499 06/03/13/JSF — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11500 06/03/13/JSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml =10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg

#M11501 06/03/13/JSF — Hg ICV / LCSW (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M11500) into 100ml = 3.0ug/L Hg

#M11502 06/03/13/JSF — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11503 06/03/13/JSF — Hg MRL: (0.2% HNO3, HCl)
- 0.2ml of 100ug/L Hg (#M11500) into 100ml = 0.2ug/L Hg

#M11504 06/03/13/JSF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11505 06/03/13/JSF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11506 06/04/13 mos TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I H_2O. Add 114mL Glacial/Acetic Acid (AB: 565) and 128.6mL 10N NaOH (#M11469) mos 06/04/13. Dilute to 20L w/ D.I H_2O and mix. pH = 4.93 ± 0.05

#M11507 06/04/13 mos 10N NaOH: Into a 1L Flask, add 400g NaOH (#M11145) and bring to volume w/ D.I H_2O.

#M11508 06/04/13 mos TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB: 565) and add 128.6mL 10N NaOH (#M11507). Dilute to 20L w/ D.I H_2O and mix. pH = 4.93 ± 0.05

#M11509 06/04/13 mos TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB: 565) and add 128.6mL 10N NaOH (#M11507). Dilute to 20L w/ D.I H_2O and mix. pH = 4.93 ± 0.05

#M11510 06/04/13 JSF Potassium permanganate soln: 50g potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O.

Exp: 11/04/13 12/04/13 JSF

#M11483 05/17/13 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11484 05/17/13 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11485 05/17/13 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11484) into 100ml = 3.0ug/L Hg
#M11486 05/17/13 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11487 05/17/13 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11484) into 100ml = 0.2ug/L Hg
#M11488 05/17/13 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11489 05/17/13 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11015) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11490 05/20/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/ ~19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB 534) and 128.6ml 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/20/14

#M11491 05/21/13 15F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 6g hydroxylamine sulfate (#M11039) in 50mL Milli-Q H2O.
Exp: 11/21/13

#M11492 05/28/13 15F Stannous Chloride (Macron) - Lot #0000040028

#M11493 05/28/13 15F Sodium Chloride Fisher Lot NO. 126180 F.W. 58.44

#M11494 05/28/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB 534) and 128.6ml 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/28/14

#M11495 05/28/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB 534) and 128.6ml 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/28/14

#M11496 05/28/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB 534) and 128.6ml 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/28/13

#M11497 05/28/13 15F

#M11498 05/31/13 15F

#M11499 06/03/13 15F

#M11500 06/03/13 15F

#M11501 06/03/13 15F

#M11502 06/03/13 15F

#M11503 06/03/13 15F

#M11504 06/03/13 15F

#M11505 06/03/13 15F

#M11506 06/04/13 mos

#M11507 06/04/13 mos

#M11508 06/04/13 mos

#M11509 06/04/13 mos

#M11510 06/07/13

4ml Glacial
#M11344).
4.93± 0.05

114ml Glacial
(#M11344).
4.93± 0.05

gacetate
)ml of DI. H2O.

): 554)

(#M1675) in

405/10/13 SF
) and 60g
500ml Milli-Q H2O

to volume with

pipet 5mls
DEI H2O.
2014

#M11474

5-1-13 Boron + Silicon ICV onto 200 ml vol flask pipet 0.2mls
10% HCl #M11205 of #M11356. Bring up to mark with DI
Exp 6-7-13 H2O. ex 5/14.

5-1-13
#M11472 ICS A List 2 into 500 ml vol flask pipet 50mls #M11225
of 0.25mls of #M11359, #M11362, #M11364, #M11056, #M11360
Bring up to mark with DI H2O. ex 12/13

#M11473 05/09/13 SF

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11474) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11474) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11480 05/10/13 SF Potassium Persulfate: 50g potassium persulfate (#M10573) dissolve into 1,000ml of
Exp: 11/10/13 D.I. H2O.

#M11481 05/13/13 SF Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into
Exp: 11/13/13 1000ml of D.I. H2O.

#M11482 05/15/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114ml Glacial Acetic Acid
Exp: 05/15/14 (AB.534) and 128.6 mL 10N NaOH (#M11468). Dilute to 20L with D.I. H2O
and mix. pH: 4.93± 0.05.

04/24/13 5F
#M11458 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 04/24/14

#M11459 04/30/13 5F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 04/30/14

05/01/13 5F
#M11460 ~~05/01/13 5F~~ Potassium permanganate soln: 50g potassium permanganate (#M9903) dissolve into 4000ml of D.I. H2O.
Exp: 11/01/13

#M11461 05/01/13 5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11462 05/01/13 5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11463 05/01/13 5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11462) into 100ml = 3.0ug/L Hg
#M11464 05/01/13 5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11465 05/01/13 5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11462) into 100ml = 0.2ug/L Hg
#M11466 05/01/13 5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11467 05/01/13 5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M1675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11468 05/01/13 5F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9903) and 60g hydroxylamine sulfate (#M10391) in 500ml Milli-QH2O
Exp: 11/01/13

#M11469 05/03/13 5F 10N NaOH: Into a 1L flask add 400g NaOH (#M11495) and bring up to volume with D.I. H2O.
Exp: 11/03/13

#M11470 - 20 5-1-13 Dil HNO3, 1% HCl
ICV Sodium & Potassium. Add to 500 ml vol flask piped 5mls of #M11463 & 5mls M11361e Bring up to mark with DI H2O.
exp Jun/2014

#M11471 5-1-13 Boron 1% HCl 1:1 5-1-13

5-1-13
#M11472

#M11473 05/09/13 5F

#M11474 05/09/13 5F

#M11475 05/09/13 5F

#M11476 05/09/13 5F

#M11477 05/09/13 5F

#M11478 05/09/13 5F

#M11479 05/09/13 5F

#M11480 05/10/13 5F

#M11481 05/13/13

#M11482 05/15/13 5F
Exp:

Page 1938

#M11442 04/09/13SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB: 534) and 1286ml 10N NaOH (#M11344) Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05

(AB: 554)

Exp: 04/09/14

de (#M 10575) in

#M11443 04/12/13SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11444 04/12/13SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11445 04/12/13SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11444) into 100ml = 3.0ug/L Hg
#M11446 04/12/13SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11447 04/12/13SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11444) into 100ml = 0.2ug/L Hg
#M11448 04/12/13SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11449 04/12/13SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 10575) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11450 04/12/13SF Potassium Permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1liter of D.I. H2O.

Exp: 10/12/13

#M11451 04/22/13SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11452 04/22/13SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11453 04/22/13SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11452) into 100ml = 3.0ug/L Hg
#M11454 04/22/13SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11455 04/22/13SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11452) into 100ml = 0.2ug/L Hg
#M11456 04/22/13SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11457 04/22/13SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 10575) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

Page 1939

#M11427 04/01/13SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11434) into 100ml = 0.2ug/L Hg
#M11428 04/01/13SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11429 04/01/13SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.
#M11430 04/01/13SF	Custom Solution	Inorganic Ventures lot# G2-MEB471044 Exp: 04/01/14
#M11431 04/01/13SF	Custom Solution	Inorganic Ventures lot#G2-MEB471043 Exp: 04/01/14
#M11432 04-02-13	GFAA Base Std.	Into 1 Liter Vol flask pipet 2x 0.5% HNO3 0.25 mls of #M11430 bring up to mark with DI H_2O. ex 5/14.
#M11433 4-2-13	GFAA ICV (Alt Source)	Into 1 Liter Vol flask pipet 2x 0.5% HNO3 1ml #M11431. Bring up to mark with DI H_2O. ex 5/14
#M11434 4-2-13	GFAA CCV	Into 1 Liter Vol flask pipet 2x 0.5% HNO3 0.1mls M11430. Bring up to mark with DI H_2O ex 5/14
#M11435 04/05/13SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11436 04/05/13SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11437 04/05/13SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11436) into 100ml = 3.0ug/L Hg
#M11438 04/05/13SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11439 04/05/13SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11436) into 100ml = 0.2ug/L Hg
#M11440 04/05/13SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11441 04/05/13SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11442 04/09/13SF ex

#M11443 04/12/13SF

#M11444 04/12/13SF

#M11445 04/12/13SF

#M11446 04/12/13SF

#M11447 04/12/13SF

#M11448 04/12/13SF

#M11449 04/12/13SF

#M11450 04/12/13SF ex

#M11451 04/22/13SF

#M11452 04/22/13SF

#M11453 04/22/13SF

#M11454 04/22/13SF

#M11455 04/22/13SF

#M11456 04/22/13SF

#M11457 04/22/13SF

03/21/13 5F

#M11413 #M11413 03/21/13 5F

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11414 03/21/13 5F	
#M11415 03/21/13 5F Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11414) into 100ml = 3.0ug/L Hg
#M11416 03/21/13 5F Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11417 03/21/13 5F Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11414) into 100ml = 0.2ug/L Hg
#M11418 03/21/13 5F Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11419 03/21/13 5F Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11420 03/25/13 5F Potassium Permanganate Soln: 50g Potassium permanganate (#M9783) dissolve into 1,000ml of D.I. H_2O.
Exp: 09/25/13

#M11421 03/29/13 5F Potassium Persulfate: 50g Potassium persulfate (#M10573) dissolve into 1,000ml D.I. H_2O.
Exp: 09/29/13

#M11422 03/29/13 5F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M11039) in 500ml Milli-Q H_2O.
Exp: 09/29/13

#M11401
3/14

Acetic
to 7pl

#M11423 04/01/13 5F Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11424 04/01/13 5F Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11425 04/01/13 5F Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11424) into 100ml = 3.0ug/L Hg
#M11426 04/01/13 5F Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M113098 03/15/13 15F Custom Assurance Standard. spex certiprep lot# 1-222XL Exp: 03/30/14 03/15/18
Cat#: XCTW7-5-500

#M113399 03/15/13 25F Interferents A Standard. Spex CertiPrep lot# 6-126YP Exp: 03/30/14

#M11400 03/15/13 25F Pb 1,000 mg/L Spex CertiPrep lot# 18-129PBY Exp: 03/30/14

#M11401 03/15/13 15F As 1,000 mg/L spex CertiPrep lot# 18-131ASY Exp: 03/30/14

#M11402 03/18/13 15F Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11403 03/18/13 15F Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11404 03/18/13 15F Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11403) into 100ml = 3.0ug/L Hg

#M11405 03/18/13 15F Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11406 03/18/13 15F Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11403) into 100ml = 0.2ug/L Hg

#M11407 03/18/13 15F Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11408 03/18/13 25F Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11409 03/19/13 15F Hg 1,000 mg/L CPI lot# 12H328 Exp: 09/13/14

#M11410 3/21/13 21 ICV 2 ICP DO Cal Dnto 1 Liter Vol flask pipet 5mls #M
5% HCl + #M 11400. Bring up to mark with DI H2O ex 3/14
5% HNO3 = 5000 ug/L As + Pb

#M11411 3-21-13 21 Pd NO3 Env. Express Lot# 1234818. ex 3/14

#M11412 03/21/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB: 534) and 128.6ml 1N NaOH (#M11314). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05 03/21/13 15F

114ml
10ml
H2O

#M11388 03/08/13 JF GFAA H2O LOQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp: 04/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag water	0.4	M11170	1000	0.02
As water	4	M11173	1000	0.2
Pb water	1.8	M10839	1000	0.09
Sb water	6	M11172	1000	0.3
Se water	8	M11171	1000	0.4
Tl water	1.6	M10566	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M11389 03/08/13 JF GFAA soil LOQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp: 4/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag soil	0.48	M11170	1000	0.024
As soil	6.4	M11173	1000	0.32
Pb soil	1.6	M10839	1000	0.08
Sb soil	2.4	M11172	1000	0.12
Se soil	6.4	M11171	1000	0.32
Tl soil	2	M10566	1000	0.1

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

H2O

1ml into

#M11390 03/11/13 JF — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11391 03/11/13 JF — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11392 03/11/13 JF — Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M11391 03/11/13 JF) into 100ml = 3.0ug/L Hg

#M11393 03/11/13 JF — Hg CCV (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11394 03/11/13 JF — Hg MRL: (0.2% HNO3, HCl)

0.2ml of 100ug/L Hg (#M11391 03/11/13 JF) into 100ml = 0.2ug/L Hg

#M11395 03/11/13 JF — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11396 03/11/13 JF — Stannous Chloride Reagent:

Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10757) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11397 03/14/13 JF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L DI H2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with DI H2O and mix. pH = 4.93 ± 0.05

Exp: 03/14/14

#M11381 03/04/13 5F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB.5341) and 128.6 mL 1N NaOH (#M11344). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 03/04/14

#M11382 Working Stds 1 & 2 Into 4 200 ml vol flasks pipet

3-5-13 JD

1% HNO_3
1% HCl

10	0.02 mls #M11203 & .002 mls #M11365
100 ug/L	0.2 mls #M11203 & .02 mls #M11365
1000 ug/L	2 mls #M11203 & .2 mls #M11365
10,000 ug/L	20 mls #M11203 & 2 mls M11365

Bringing to mark with DI H_2O ox Nov 2013

#M11383 3-5-13 JD ICV L2 Into a 200 ml vol flask pipet 0.2 mls of #M11356, #M11365, #M11359, #M11360 and #M11056

1% HNO_3
1% HNCl

Bring up to mark with DI H_2O 9-12/13

#M11384 03/07/13 5F LoD, LoQ check (3050) Into 1 liter volumetric flask pipet 1 ml M11343. Bring up to mark with D.I. H_2O x50 dilution use 1 mL in 50 ~~for~~ 03/07/13 5F or 10 into 500 ml for = 240 ug/L or 6 mg/kg. (3060)

Exp: 02/28/14

#M11385 03/07/13 5F LoD, LoQ Check 5 - H_2O. Into a 1 Liter volumetric flask pipet 1 mL M11343. Bring up to mark with D.I. H_2O x50 dilution use 1 mL in 50 or 10 into 500 ml for = 240 ug/L or 6 mg/kg.

Exp: 02/28/14

#M11386 03/08/13 5F Hg H_2O LoQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp: 04/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Hg water	0.12	M10563	1000	0.006

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M11387 03/08/13 5F Hg soil LoQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp: 04/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Hg soil	0.2	M10563	1000	0.01

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M11368 02/26/13 SF Fe 10,000mg/L ODI Lot# 13B029 Exp: 08/20/14

#M11369 02/28/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11370 02/28/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11371 02/28/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 1370) into 100ml = 3.0ug/L Hg
#M11372 02/28/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11373 02/28/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 1370) into 100ml = 0.2ug/L Hg
#M11374 02/28/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11375 02/28/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M[illegible]) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11376 03/01/13 SF (Fisher) Hydroxylamine Sulfate Lot#111618A Exp: 03/01/14

#M11377 A 3-1-13 5 working stds. into 4 100 ml vol. flask pipet Respectively from #M 11343 10,000 mg/L S Spex Certiprep Lot# AG14-1755 Y std
0.01 mls -> = 1000ug/L S
0.1 mls -> = 10,000 ug/L S
1.0 mls -> = 100,000ug/L S
10 mls -> = 1000 kug/L S
Bring up & mark WI DI H2O ex 2/14

#M11378 A 3-1-13 A 5 ICV (Alt) into 1 100 vol flask pipet from #M10773 Plasma Cal lot 5120116017 0.01 mls = 1000ug/L S. ex 10/13
Bring up to mark w/DI.

#M11379 03/04/13 SF Stannous Chloride (Macron) - Lot #0000017703

#M11380 3/4/13 A ICV into 1 liter vol flask Pipet 10mls M11342, 2mls #M11225, 0.5mls #M11357. Bring up to mark with DI H2O. ex NOV. 2013.

#M11349 02/19/13 5F — Hg MRL: (0.2% HNO3, HCl) — 0.2ml of 100ug/L Hg (#M11346) into 100ml = 0.2ug/L Hg

#M11350 02/19/13 5F — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554).

#M11351 02/19/13 5F — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11615) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11352 02/22/13 5F Potassium permanganate Soln: 50g potassium permanganate (#M9703) dissolve into 1000mL of D.I. H2O.
Exp: 08/22/13

#M11353 02/22/13 5F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M11
in 500mL Milli-Q H2O.
Exp: 08/22/13

#M11354 02/22/13 5F TCLP Extraction Fluid #1: Fill a 2L carboy w/1.9L D.I. H2O. Add 11.4mL Glacial Acetic Acid (AB.534) and 128.6mL 2.0N NaOH (#M11344). Dilute to 2L with D.I. H2O and mix. pH=4.93 ± 0.05
Exp: 02/22/14

#M11355 2-22-13 ~~CPI~~ Co 1000mg/L CPI Lot # 12H067 ex. 8/20/14
N

#M11356 02/26/13 5F Si 1000 mg/L CPI Lot#13A214 Exp: 08/20/14

#M11357 02/26/13 5F Mo 1000 mg/L CPI Lot#12K060 Exp: 08/20/14

#M11358 02/26/13 5F Ni 1000 mg/L CPI Lot#13A215 Exp: 08/20/14

#M11359 02/26/13 5F Sn 1000 mg/L CPI Lot#12I125 Exp: 08/20/14

#M11360 02/26/13 5F Sr 1000 mg/L CPI Lot#12L094 Exp: 08/20/14

#M11361 02/26/13 5F Tl 1000mg/L CPI Lot#12G229 Exp: 08/20/14

#M11362 02/26/13 5F Li 1000mg/L CPI Lot#12A008 Exp: 08/20/14

#M11363 02/26/13 5F Al 10,000mg/L CPI Lot#12K049 Exp: 08/20/14

#M11364 02/26/13 5F Ti 1000mg/L CPI Lot#12K061 Exp: 08/20/14

#M11365 02/26/13 5F W 1000mg/L CPI Lot#12H257 Exp: 08/20/14

#M11366 02/26/13 5F Na 10,000mg/L CPI Lot#13A194 Exp: 08/20/14

#M11367 02/26/13 5F Ca 10,000mg/L CPI Lot#12L059 Exp: 08/20/14

#M11336 02/07/13I5F TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB.534) and 128.6ml 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 02/07/14

#M11337 02/08/13I5F Potassium permanganate soln: 50g potassium permanganate (#M9905) dissolve into 1,000mL of D.I. H2O.
Exp: 08/08/13

#M11338 02/11/13I5F TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB534) and 128.6ml 10N NaOH (#M0910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 02/11/14

#M11339 2-13-13 TCLP Extraction Fluid #1: fill a 20 Liter w 19L DI H2O. Add 114 ml Glacial Acetic Acid (AB:534) and 128.6 ml 10N NaOH (#M10910) Dilute to 20L with DI H2O & Mix. pH = 4.93 ± .05
(Exp 2-13-13)

#M11340 02/16/13I5F SPLP Extraction Fluid #1: Into a 20L carboy add D.I. H2O to mark and adjust pH to 4.20 ± 0.05 with M10857.
Exp: 08/16/13

#M11341 02/16/13I5F TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB.534) and 128.6ml 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 02/16/14

#M11342 2-18-13 Custom Assurance Std. Xspike-1-250. Spex Certiprep lot# 18-157CR.

#M11343 2-18-13 Sulfur 10,000mg/L Spex Certiprep Lot# A614-177SU

#M11344 02/18/13I5F 10N NaOH: Into a 1L flask add 400g NaOH (#M11145) and bring up to volume with D.I. H2O.
Exp: 08/18/13

#M11345 02/19/13I5F Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml = 5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11346 02/19/13I5F Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Into 100ml = 100ug/L Hg

#M11347 02/19/13I5F Hg ICV / LCSW (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M11346) into 100ml = 3.0ug/L Hg

#M11348 02/19/13I5F Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11321 01/29/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11320) into 100ml = 3.0ug/L Hg
#M11322 01/29/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11323 01/29/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11320) into 100ml = 0.2ug/L Hg
#M11324 01/29/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11325 01/29/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11326 01/30/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.9L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 01/30/14

#M11327 #M11328 02/05/13 SF 02/05/13 SF 1N HCL for TCLP: Into a 1L Vol. flask, partially filled with Milli-Q H_2O, add 83mL of Conc. HCl (AB:560) and bring up to volume with Milli-Q H_2O.

Exp: 02/05/14

#M11328 02/06/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11329 02/06/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11330 02/06/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11329) into 100ml = 3.0ug/L Hg
#M11331 02/06/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11332 02/06/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11329) into 100ml = 0.2ug/L Hg
#M11333 02/06/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11334 02/06/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11335 02/07/13 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9549) and 60g hydroxylamine Sulfate (#M10739 M11039 04/13 SF) in 500mL Milli-Q H_2O.

Exp: 08/07/13

#M11308 01/17/13SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11296). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 01/17/14

#M11309 01/21/13SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11296). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 01/21/14

#M11310 1-22-13 Custom Assurance Standard Spex CertiPrep Lot 18-068CR exp 1/14

M

#M11311 01/22/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11312 01/22/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11313 01/22/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11312) into 100ml = 3.0ug/L Hg
#M11314 01/22/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11315 01/22/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11312) into 100ml = 0.2ug/L Hg
#M11316 01/22/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11317 01/22/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11318 01/23/13SF Potassium permanganate soln: 50g Potassium permanganate (#M9908) dissolve into 1000ml of D.I. H_2O.

Exp: ~~01/23/13SF~~ 07/23/13

#M11319 01/29/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11320 01/29/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg

114mL

2 H_2O

2/1/13

#M11305 01/15/13 SF

MDL Spiking soln all 50X into 1 liter vol flask pipet the following:

Bring up to volume with D.I. H_2O. Use 1 mL into 50 mls or 10 mls into 500.

3050 MDL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	5	M11170	1000	0.25
Al	10	M10870	10000	0.05
As	20	M11173	1000	1
Ba	2	M11052	1000	0.1
Be	0.5	M11239	1000	0.025
Ca	50	M10898	10000	0.25
Cd	0.5	M11242	1000	0.025
Co	2.5	M10561	1000	0.125
Cr	5	M11053	10000	0.025
Cu	10	M11051	10000	0.05
Fe	20	M11228	10000	0.1
Mg	25	M10868	10000	0.125
Mn	5	M11054	10000	0.025
Mo	2.5	M10560	1000	0.125
Ni	5	M10565	1000	0.25
Pb	10	M10839	10000	0.05
Sb	20	M11172	1000	1
Se	20	M11171	1000	1
Tl	20	M10566	1000	1
V	5	M11241	1000	0.25
Zn	5	M11240	10000	0.025

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 04/02/13

#M11306 01/15/13 SF

MDL Spiking soln B, Si into 1 L vol flask pipet the following:

Bring up to volume with D.I. H_2O. Use 1 mL into 5 mls or 10 mL into 500 mls.

3050 MDL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	20	M11205	1000	1
Si	100	M10860	1000	5

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 04/02/13

#M11307 01/16/13 SF TCLP Extraction Fluid #1: 01/16/13 SF 1000 a 20L carboy w/ 11.9L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB534) and 128.6 mL 1N NaOH (#M11796). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 01/16/14

#M11292 01/07/13 CF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11293 01/07/13 CF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11290) into 100ml = 0.2ug/L Hg
#M11294 01/07/13 CF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11295 01/07/13 CF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11015) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11296 01/08/13 CF 10N NaOH: Into a 1L flask add 400g NaOH (#M10570 and bring up to Exp: 01/08/14 Volume with D.I. H2O.

#M11297 01/10/13 CF Potassium persulfate: 50g potassium persulfate (#M10573) dissolve into 400mL Exp: 07/10/13 D.I. H2O.

#M11298 01/11/13 CF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11299 01/11/13 CF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11300 01/11/13 CF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11299) into 100ml = 3.0ug/L Hg
#M11301 01/11/13 CF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11302 01/11/13 CF 01/14/13 CF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11299) into 100ml = 0.2ug/L Hg
#M11303 01/11/13 CF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11304 01/11/13 CF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11015) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

2/24/13

#M11284 A
5% HCL 1-4-13
5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Al	14.4	M10567	1000	0.72
Sn	20	M10562	1000	1
Sr	3.2	M10569	1000	0.16
Tl	9.6	M10709	1000	0.48
W	24	M10559	1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

#M11285 01/04/13 SF ~~Shannon Chloride (Macron) - Lot. No.~~

#M11285 Potassium Permanganate (Fisher) - Lot. No. 123302
01/04/13 SF

#M11286 01/07/13 SF NaCl Hydroxylamine ~~Sulfate~~ Sulfate 01/07/13 SF Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M10263) in 500mL Milli-Q H2O.
Exp' 07/07/13

ICAP Working Standards Boron & Silicon

#M11287 2
1-7-13

Standard name — Into 1 liter Pipet the following respectively:

50	0.5 mls of #M11203 and .05mls #M10860 = 50 ug/L
100	1.0 mls of #M11203 and 0.1mls #M10860 = 100 ug/L
1000	10 mls of #M11203 and 1.0mls #M10860 = 1000 ug/L
2000	20 mls of #M11203 and 2.0mls #M10860 = 1000 ug/L
10000	100 mls of #M11203 and 10mls #M10860 = 10000 ug/L

ex 12-13

1-7-13

#M11288 2
1-7-13

Initial Calibration Standard (ICV) B, Si
Into 1 liter vol flsk pipet 1 ml of #M11205 & M10564
bring up to mark with DI H2O ex 4/13

#M11289 01/07/13 SF

Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11290 01/07/13 SF

Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11291 01/07/13 SF

Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M11290) into 100ml = 3.0ug/L Hg

#M11280 1-4-13
5% HCL 5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	2640	M11243	10000	13.2
Na	960	M10570	10000	4.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

#M11281 1-4-13
5% HCL, 5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	52	M11205	1000	2.6
Si	192	M10564	1000	9.6

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

#M11282 1-4-13
5% HCL, 5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	M11205	1000	0.8
Si	200	M10564	1000	10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

#M11283 1-4-13
5% HCL
5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	10	M10567	1000	0.5
Sn	10	M10562	1000	0.5
Sr	2	M10569	1000	0.1
Tl	8	M10709	1000	0.4
W	36	M10559	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

2-4-13

#M11278 1-4-13
5% HCL 5% HNO3
JA

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M11170	1000	0.2
Al	38	M11228	10000	0.18
As	24	M11173	1000	1.2
Ba	1.8	M11052	1000	0.09
Be	0.6	M11239	1000	0.03
Ca	100	M11227	10000	0.5
Cd	2	M11242	1000	0.1
Co	4	M10561	1000	0.2
Cr	4	M11053	10000	0.02
Cu	7	M11051	10000	0.035
Fe	100	M11228	10000	0.5
Mg	40	M11228	10000	0.2
Mn	4	M11054	10000	0.02
Mo	7	M10560	1000	0.35
Ni	6	M10565	1000	0.3
Pb	4	M10869	10000	0.02
Sb	12	M11172	1000	0.6
Se	13	M11171	1000	0.65
Tl	15	M10566	1000	0.75
V	5	M11241	1000	0.25
Zn	10	M11240	10000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

#M11279 1-4-13 JA
5% HCL, 5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M11170	1000	0.2
Al	9.6	M11226	10000	0.048
As	32	M11173	1000	1.6
Ba	2	M11052	1000	0.1
Be	1.6	M11239	1000	0.08
Ca	56	M11227	10000	0.28
Cd	1.6	M11242	1000	0.08
Co	9.6	M10561	1000	0.48
Cr	5.6	M11053	10000	0.028
Cu	16	M11051	10000	0.08
Fe	72	M11228	10000	0.36
Mg	32	M11228	10000	0.16
Mn	6	M11054	10000	0.03
Mo	9.6	M10560	1000	0.48
Ni	4.8	M10565	1000	0.24
Pb	10	M10869	10000	0.05
Sb	32	M11172	1000	1.6
Se	16	M11171	1000	0.8
Tl	19	M10566	1000	0.95
V	3.2	M11241	1000	0.16
Zn	12	M11240	10000	0.06

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

#M11268 SM
1-2-13
ICV Na, K
5% HCL 5% HNO3
dissolved

Initial Calibration Standard (ICV) Into 500 ml volumetric pipette 5 mls of #M10570 and #M11243 and bring up to mark with DI H2O. expires april 2013.

#M11269 01/03/13 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11270 01/03/13 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11271 01/03/13 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11270) into 100ml = 3.0ug/L Hg
#M11272 01/03/13 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11273 01/03/13 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11270) into 100ml = 0.2ug/L Hg
#M11274 01/06/13 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11275 01/08/13 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11015) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11276 01/03/13 LSF TCLP Extraction Fluid #1: 01/03/13 LSF Fill a 20L carboy w/ 19L D.I. H2O. ~~Into a 20L carboy add D.I. H2O.~~ Add 114mL Glacial Acetic Acid CAB:534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05

Exp: 01/03/14

#M11277 1-4-13 SM
5% HCL, 5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M11243	10000	2.5
Na	600	M10570	10000	3

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

1-2-13

#M11263 12/27/12 15F

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11264 12/27/12 13F

Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 1105) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11265 12/28/12 13F Potassium Permanganate Soln: 50g potassium permanganate (#M9703) dissolved into 1,000mL of D.I. H2O.

Exp: 06/28/13

#M11266 1-2-13

2%

5% HNO3

5% HCl

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M11170	1000	1
Al	400	M11228	10000	2
Ba	10	M11052	1000	0.5
Be	4	M11239	1000	0.2
Cd	5	M11242	1000	0.25
Co	10	M10561	1000	0.5
Cr	10	M11053	10000	0.05
Cu	10	M11051	10000	0.05
Mg	500	M11228	10000	2.5
Mn	10	M11054	10000	0.05
Mo	10	M10560	1000	0.5
Ni	10	M10585	1000	0.5
Pb	10	M10839	10000	0.05
Sb	20	M11172	1000	1
V	10	M11241	1000	0.5
Zn	10	M11240	10000	0.05
K	5000	M11243	10000	25
Na	1000	M10570	10000	5
As	20	M11173	1000	1
Ca	500	M11227	10000	2.5
Fe	300	M11228	10000	1.5
Se	20	M11171	1000	1
Tl	20	M10566	1000	1
Si	100	M10564	1000	5
B	20	M11205	1000	1
Li	20	M10567	1000	1
W	50	M10559	1000	2.5
Ti	10	M10709	1000	0.5
Sr	10	M10569	1000	0.5
Sn	50	M10562	1000	2.5
S	100	M10773	1000	5

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard. EX 4-13

#M11267 1-2-13 NAK working std

2A

Working Standards for Sodium and Potassium; into seven, 200 ml volumetric flasks pipette from #M11245 and #M11244.

For the 0.5 mg/L std– 0.1 mls of each
1.0 mg/L std – 0.2 mls of each
5.0 mg/L std – 1.0 mls of each
10.0 mg/L std – 2.0 mls of each
50.0 mg/L std - 10.0 mls of each
100 mg/L std -20.0 mls each also used for Continuing Calibration Standard (CCV)
200 mg/L std -40.0 mls of each
Bring up to mark with DI H2O. Expires June 5 2014.

12/13/12 LSF

#M11249 12/13/12 LSF — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11250 12/13/12 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11251 12/13/12 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M11250) into 100ml = 3.0ug/L Hg

#M11252 12/13/12 LSF — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11253 12/13/12 LSF — Hg MRL: (0.2% HNO3, HCl)
- 0.2ml of 100ug/L Hg (#M11250) into 100ml = 0.2ug/L Hg

#M11254 12/13/12 LSF — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11255 12/13/12 LSF — Stannous Chloride Reagent:
- Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11256 12/14/12 LSF NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M10210) in 500ml Milli-Q H2O.

Exp: 06/14/13

#M11257 12/17/12 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.9L D.I. H2O. Add 11.4mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05.

Exp: 12/17/13

#M11258 12/27/12 LSF — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11259 12/27/12 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11260 12/27/12 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M11259) into 100ml = 3.0ug/L Hg

#M11261 12/27/12 LSF — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11262 12/27/12 LSF — Hg MRL: (0.2% HNO3, HCl)
- 0.2ml of 100ug/L Hg (#M11259) into 100ml = 0.2ug/L Hg

#M11241 12-10-12 ZA V 1000 mg/L CPI Lot # 12F1116 ex 6/14.

#M11242 12-10-12 ZA Cd 1000 mg/L CPI Lot # 126063 ex 6/14.

#M11243 12-10-12 ZA K ~~10000~~ 1000 mg/L CPI Lot # 12C112 ex 6/14.

#M11244 12-10-12 ZA K 1000 mg/L CPI Lot # 11G006 ex 6/14.

#M11245 12-10-12 ZA Na 10,000 mg/L CPI Lot # 12C263 ex 6/14.

#M11246 ZA 12-10-12 100,000 ug/L cal std Remade with ZA #12-10-12 1000 mg/L std.

ICAP Working Standards
5% HNO3 . 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M11031(ex 8/13) and 1.0 mls of #M11085 (ex 09/13) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M11031(ex 8/13) and #M11085 (ex 9/13) and 1 mL of #M10860 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M11031 (ex 8/13),100 mls #M11085 (ex 9/13),
100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 10 mls #M10839 Pb (ex 10/13) 10 mls zn #M11240(ex 8-14 = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 AL (ex 11/13) , into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 AL (ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 AL (ex 11/13) into 1000 ml vol flask = 1,000,000 ug/l std . Bring the 1000 ml volumetric up to mark with DI H2O

ex 8-13

#M11247 12-10-12 ZA

ICAP Working Standards Boron & Silicon

Standard name	Into 1 liter Pipet the following respectively:
10	0.1 mls of #M11031 and .01mls #M10860 = 10 ug/L
50	0.5 mls of #M11031 and .05mls #M10860 = 50 ug/L
100	1 mls of #M11031 and 0.1mls #M10860 = 100 ug/L
1000	10 mls of #M11031 and 1.0mls #M10860 = 1000 ug/L
10000	100 mls of #M11031 and 10mls #M10860 = 10000 ug/L

ex 8-13

#M11248 ZA 12-10-12 ZA

Initial Calibration Standard (ICV) B, Si

Into 1 liter vol fisk pipet 1 ml of #M11205 & M10564
bring up to mark with DI H2O ex 4/13

*M11247

Continuing Calibration Standard (CCV)

Into 1 liter vol flask pipet 10 mls of #M11205 and 1.0mls #M10860 = 1000 ug/L
bring up to mark with DI H20 ex 8-13

#M11224 12-3-12 Ameo tune std. Lot # C254646 ex 11/13

#M11225 12-3-12 Interferents A std 5 pk Custom prep lot # 6-126 YP ex 11/13

#M11226 12-3-12 Al metal 10,000 ug/ml CPI Lot 12E211 AL190-1 ex 5/14.

#M11227 12-3-12 Ca 10,000 ug/ml CPI Lot # 12I240 ex 5/14

#M11228 12-3-12 Fe 10,000 ug/ml CPI Lot # 12J195 ex 5/14

#M11229 12-3-12 Mg 10,000 ug/ml CPI Lot # 12F144 ex 5/14.

#M11230 12/03/12 5F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB534), and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05

Exp: 12/03/13

#M11231 12/05/12 5F Potassium permanganate soln: 50g Potassium permanganate (#M9903) dissolve into 1,000 mL of D.I. H2O.

Exp: 06/05/13

#M11232 12/05/12 5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11233 12/05/12 5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11234 12/05/12 5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11233) into 100ml = 3.0ug/L Hg
#M11235 12/05/12 5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11236 12/05/12 5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11233) into 100ml = 0.2ug/L Hg
#M11237 12/05/12 5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11238 12/05/12 5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10615) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11239 12-10-12 Be 1000 mg/L CPI Lot 12K091. ex 6/14.

#M11240 12-10-12 Zn 10,000 mg/L CPI Lot 12F097 ex 6/14.

2443

#M11212 11/21/12SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11209) into 100ml = 0.2ug/L Hg
#M11213 11/21/12SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11214 11/21/12SF	Stannous Chloride Reagent:	into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11215 11/21/12 Nickel Nitrate Matrix Modifier (10,000 µg/mL) Lot # 24-196450H, Alfa Aesar
AMA Exp. 11-2013

#M11216 11/28/12SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg into 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11217 11/28/12SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11218 11/28/12SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11217) into 100ml = 3.0ug/L Hg
#M11219 11/28/12SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11220 11/28/12SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11217) into 100ml = 0.2ug/L Hg
#M11221 11/28/12SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11222 11/28/12SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045 in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11223 12-3-12 ICP Working Stds.

Pipet the following respectively:

0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M11031(ex 8/13) and 1.0 mls of #M11085 (ex 09/13) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M11031(ex 8/13) and #M11085 (ex 9/13) and 1 mL of #M10860 SI into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M11031 (ex 8/13),100 mls #M11085 (ex 9/13),
100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 10 mls #M10839 Pb (ex 10/13) = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 AL (ex 11/13) , into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 AL (ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 AL (ex 11/13) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

12-3-12

#M11197 11/13/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11198 11/13/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11195) into 100ml = 0.2ug/L Hg
#M11199 11/13/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11200 11/13/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11201 11/13/12 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9594) and 60g hydroxylamine sulfate (#M10210) in 500ml Milli-Q H2O.
Exp: 05/13/13

#M11202 11/16/12 SF Potassium permanganate Stn: 50g potassium permanganate (#M9903) dissolve into 1000mL of D.I. H2O.
Exp: 05/16/13

#M11203 11-19-12 Custom Assurance Std. Spex Certiprep Lot# 16-236CR. ex 11/13
X-CTWI-5-500

#M11204 11-19-12 Custom Assurance Std. Spex Certiprep Lot 16-237CR - ex 11/13
XSpike-1-250

#M11205 11-19-12 Boron 1000mg/L CPI Lot# B6092

#M11206 11-19-12 Y 10,000 mg/L Env. Exp. Lot# 1208040 ex 5/2014

#M11207 11/20/12 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 1.0N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 11/20/13

#M11208 11/21/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11209 11/21/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11210 11/21/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11209) into 100ml = 3.0ug/L Hg
#M11211 11/21/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11183 11-9-12 ZA Env. Express ~ 10,000 mg/L ex May 6 2014
Lot# 1208040

#M11184 11-09-12 AMA Magnesium Nitrate Matrix Modifier solution (10,000 mg/L Mg)
Environmental Express Lot No. 1214232, Expires 11-06-13

#M11185 11/08/12SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11186 11/08/12SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11187 11/08/12SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11186) into 100ml = 3.0ug/L Hg
#M11188 11/08/12SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11189 11/08/12SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11186) into 100ml = 0.2ug/L Hg
#M11190 11/08/12SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11191 11/08/12SF	Stannous Chloride Reagent:	into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075 in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11192 ZA 11-12-12 ICSA 5% HNO3 5% HCl Into 500ml Vol pipet 50mls #M10868 & 15 mls #M10896 Bring up to mark w/ DI H2O. ex- 4/13.

#M11193 ZA 5% HNO3, 5% HCl ICSAB Na, K into 500ml Vol pipet 50mls #M10868 & #M10896 5mls #M10887 & 5mls #M10570 Bring up to mark w/ DI H2O ex 1/13.

#M11194 11/13/12SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11195 11/13/12SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11196 11/13/12SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11195) into 100ml = 3.0ug/L Hg

#M11197 11/13/12SF
#M11198 11/13/12SF
#M11199 11/13/12SF
#M11200 11/13/12SF
#M11201 11/13/12SF
Exp'd
#M11202 11/16/12SF
#M11203 11-19 ZA
#M11204 11- ZA
#M11205 11-1
#M11206 11-1

#M11169 11/01/12|3F TCLP Extraction Fluid #1: Fill a 20L Carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M11136). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 11/01/13

#M11170 11/02/12 Ag 1000µg/mL CPI LOT NO. 11E160 EXP. 04/24/2014
AMA

#M11171 11/02/12 Se 1000µg/mL CPI LOT NO. 123054 EXP. 04/24/2014
AMA

#M11172 11/02/12 Sb 1000µg/mL CPI LOT NO. 12E115 EXP. 04/24/2014
AMA

#M11173 11/02/12 As 1000µg/mL CPI LOT NO. 121094 EXP. 04/24/2014
AMA

#M11174 11/06/12|3F to 11/06/12|5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11175 11/06/12|5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11176 11/06/12|5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11175) into 100ml = 3.0ug/L Hg
#M11177 11/06/12|5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11178 11/06/12|5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11175) into 100ml = 0.2ug/L Hg
#M11179 11/06/12|5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11180 11/06/12|5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11181 11/07/12|3F Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H2O.
Exp: 05/07/13

#M11182 11/07/12|3F Potassium persulfate: 50g potassium persulfate (#M10573) dissolve into 1000mL D.I. H2O.
Exp: 05/07/13

#M11156 10/24/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11155) into 100ml = 3.0ug/L Hg
#M11157 10/24/1215F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11156 10/24/1215F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11155) into 100ml = 0.2ug/L Hg
#M11157 10/24/1215F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11158 10/24/1215F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Watar.
#M11158 10/25/1215F	TCLP Extraction Fluid #1: Fill a 20L carboy w/ 18L D.I. H2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 6N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05	
Exp: 10/25/13		
#M11160 10/25/1215F	SPLP Extraction Fluid #1: Into a 20L carboy add D.I. H2O to mark and adjust pH to 4.20 ± 0.05 with M10857.	
Exp: 04/25/13		
#M11161 10/31/1215F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml = 5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11162 10/31/1215F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11163 10/31/1215F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11162) into 100ml = 3.0ug/L Hg
#M11164 10/31/1215F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11165 10/31/1215F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11162) into 100ml = 0.2ug/L Hg
#M11166 10/31/1215F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11167 10/31/1215F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11165) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.
#M11168 10/31/1215F	NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine Sulfate (#M6710) in 500mL Milli-Q H2O.	
Exp: 04/31/13		

#M11169 11/02/12 E

#M11170 11/02/12 A
AMA

#M11171 11/02/12 SC
AMA

#M11172 11/02/12 SD
AMA

#M11173 11/02/12 AS
AMA

#M11174 11/06/1215F

#M11175 11/06/1215F

#M11176 11/06/1215F

#M11177 11/06/1215F

#M11178 11/06/1215F

#M11179 11/06/1215F

#M11180 11/06/1215F

#M11181 11/07/1215F
Exp: 0

#M11182 11/07/1215F
Exp: C

#M11144 10/18/12 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H_2O.
Exp: 04/18/13

#M11145 10/19/12 SF Sodium Hydroxide - Fisher Scientific lot#122989 3kg

#M11146 10/23/12 AMA GFAA Base Std. (25µg/L) - Pipet 25mL of #M10818 into a 1L vol. flask and bring (1% HNO_3) up to volume with Milli-Q H_2O. Exp. 04/01/13

#M11147 10/23/12 AMA GFAA Alt. Source Std. (10µg/L) - Pipet 50mL of #M10819 into a 1L vol. flask and (1% HNO_3) bring up to volume with Milli-Q H_2O. Exp. 04/01/13

#M11148 10/23/12 AMA GFAA CCV Std. (10µg/L) - Pipet 10mL of #M10818 into a 1L vol flask and bring (1% HNO_3) up to volume with Milli-Q H_2O. Exp. 04/01/13

#M11149 10/23/12 AMA GFAA Stability check working standard - Into a 250mL vol. flask, pipet the (1% HNO_3) following and bring up to volume with 1% D.I. H_2O. Exp. 11/25/12

0.6mL of 1000mg/L As (#M10281)
0.04mL of 10,000mg/L Pb (#M10839)
1.7mL of 1000mg/L Se (#M10277)
0.9mL of 1000mg/L Sb (#M10280)
0.4mL of 1000mg/L Tl (#M10566)
0.07mL of 1000mg/L Ag (#M10310)

#M11150 10/23/12 AMA GFAA Stability check standard - Pipet 5mL of #M11149 into a 1L vol. flask and bring (1% HNO_3) up to volume with D.I. H_2O. Exp. 11/25/12

#M11151 10/23/12 AMA Pd/Mg Modifier - Into a 50mL vol. flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with Milli-Q H_2O. Exp. 10/30/12

#M11152 10/23/12 AMA $NiNO_3$ Modifier - Into a 100mL vol. flask, pipet 20mL $NiNO_3$ (#M9853) and bring up to volume with Milli-Q H_2O.

#M11153 10/24/12 SF Potassium permanganate Soln: 50g potassium permanganate (#M9703) dissolve into 1000mL of D.I. H_2O.
Exp: 04/24/13

#M11154 10/24/12 SF

Hg Working Stds: (0.2% HNO_3, HCl)
1.0mL of 1000mg/L Hg (#M10563) into 100mL=10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
0.5mL of 100ug/L Hg into 100mL = 0.5ug/L Hg
1.0mL of 100ug/L Hg into 100mL = 1.0ug/L Hg
2.0mL of 100ug/L Hg into 100mL = 2.0ug/L Hg
4.0mL of 100ug/L Hg into 100mL = 4.0ug/L Hg
5.0mL of 100ug/L Hg ino 100mL =5.0ug/L Hg
10.0mL of 100ug/L Hg into 100mL = 10.0ug/L Hg

#M11155 10/24/12 SF

Hg Alt Source Working Std: (0.2% HNO_3, HCl)
1.0mL of 1000mg/L Hg (#M9063) into 100mL = 10mg/L Hg
1.0mL of 10mg/L into 100mL = 100ug/L Hg

#M11129 10/10/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11128) into 100ml = 3.0ug/L Hg
#M11130 10/10/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11131 10/10/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11128) into 100ml = 0.2ug/L Hg
#M11132 10/10/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11133 10/10/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11134 10/10/12 SF Potassium permanganate Soln: 50g Potassium permanganate (#M9903) dissolve into 1,000ml of D.I. H_2O.
Exp: 04/10/13

#M11135 10/15/12 SF TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 11.9L D.I. H_2O. Add 11.4ml Glacial Acetic Acid (AB.534) and 128.6ml 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 10/15/13

#M11136 10/17/12 SF 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M10571) and bring up to volume with DI H_2O.
Exp: 10/17/13

#M11137 10/18/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11138 10/18/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11139 10/18/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11138) into 100ml = 3.0ug/L Hg
#M11140 10/18/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11141 10/18/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11138) into 100ml = 0.2ug/L Hg
#M11142 10/18/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11143 10/19/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11144 10/18/12 SF
Exp
#M11145 10/19/12 SF
#M11146 10/23/12 GFA AMA
#M11147 10/23/12 GFA AMA
#M11148 10/23/12 GFA AMA
#M11149 10/23/12 GFA AMA
#M11150 10/23/12 GFA AMA
#M11151 10/23/12 PA/N AMA
#M11152 10/23/12 NaNO AMA
#M11153 10/24/12 SF PC Exp:
#M11154 10/24/12 SF
#M11155 10/24/12 SF

Page

#M11117 10-2-12 Turbidity working stds into 20mls pipet from #M11115 A (200 NTU)

6el Std =
- 4.00 NTU — 2.0 mL into 18 mL D.I. H_2O = 20 NTU
- 48.9 NTU — 10 mL into 10 mL D.I. H_2O = 100 NTU
- 525 NTU — 20 mL into 0mL DI H_2O = 200 NTU

(Exp Aug 2014).

#M11118 10/02/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11119 10/02/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11120 10/02/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11119) into 100ml = 3.0ug/L Hg
#M11121 10/02/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11122 10/02/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11119) into 100ml = 0.2ug/L Hg
#M11123 10/02/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11124 10/02/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11015) in ~70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11125 10/04/12 LSF Potassium persulfate: 50g potassium persulfate (#M10573) dissolve into 1000mL D.I. H_2O.
Exp: 01/04/13

#M11126 10/09/12 LSF TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H_2O, Add 114mL Glacial Acetic Acid (AB534) and 128.6mL 16N NaOH (#M10910). Dilute to 20L with DI H_2O and mix. pH 4.93 ± 0.05
Exp: 10/09/13

#M11127 10/10/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11128 10/10/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M111047 09/24/12 LSF TCLP Extraction Fluid #1: 7 L to a 20L carboy w/ DI H2O + Glacial Acetic Acid (AB: 553) 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O & mix. pH = 4.93 ± 0.05

Exp: 09/24/13

#M111105 09/25/12 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M10210) and 60g hydroxylamine sulfate (#M10210) in 500mL of D.I. H2O

Exp: 03/25/13

#M111106 09/26/12 LSF Potassium Permanganate Soln: 50g potassium permanganate (#M10563) dissolve into 1,000mL of D.I. H2O

Exp: 03/26/13

#M111107 09/26/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M111108 09/26/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M111109 09/26/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M111108) into 100ml = 3.0ug/L Hg
#M111110 09/26/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M111111 09/26/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M111108) into 100ml = 0.2ug/L Hg
#M111112 09/26/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 552)
#M111113 09/26/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10210) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water

#M111114 09/28/12 LSF Stannous Chloride (Macron) ~ Lot NO. 0000017703 Exp 11/2014

#M111115 9-28-12 Stabl Cal Standard, 200 NTU Lot AZ216 of Aug 2014

#M111116 09/28/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy combine 7L of D.I. H2O + Acetic Acid (AB: 553) 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O & mix. pH = 4.93 ± 0.05

Exp: 09/28/13

>b (ex 10/13)

)7 AL (ex 11/13),
,000 ug/l std
97 AL (ex 2/13)

v110897 AL (ex 11/13)

#M11094 09/19/12 I5F — Hg CCV (0.2% HNO3, HCl): 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg; 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg; 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11095 09/19/12 I5F — Hg MRL: (0.2% HNO3, HCl): 0.2ml of 100ug/L Hg (#M11092) into 100ml = 0.2ug/L Hg

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11096 09/19/12 I5F

#M11097 09/19/12 I5F — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10567) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11098 09-21-12 AMA — GFAA LOD/LOQ soil working std: Into a 200mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12

1.2 mL Sb 1000mg/L (#M10280) = 6,000 µg/L Sb
3.2 mL As 1000mg/L (#M10281) = 16,000 µg/L As
3.2 mL Se 1000 mg/L (#M10277) = 16,000 µg/L Se
0.08 mL Pb 10,000mg/L (#M10839) = 4,000 µg/L Pb
1.0 mL Tl 1000mg/L (#M10566) = 5,000 µg/L Tl

#M11099 09-21-12 AMA — GFAA LOD/LOQ soil spiking soln: Into a 1L vol. flask, pipet 10mL of #M11098 and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12

Lot #M10868 & de mark with DI

#M11100 09-21-12 AMA — GFAA LOD/LOQ soil Ag working std: Into a 200mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 12-8-12

Glacial Acetic Acid (#M10910) Dilute to # = 4.93 ± 0.05

0.12mL Ag 1000mg/L (#M10310) = 600 µg/L Ag

#M11101 09-21-12 AMA — GFAA LOD/LOQ soil Ag spiking soln: Into a 1L vol. flask, pipet 10mL of #M11100 and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 12-8-12

pipet 114 mL of (#M10910). = 4.93 ± .05

#M11102 09-21-12 AMA — GFAA LOD/LOQ water working std: Into a 100mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12

nl=10mg/L Hg
ig
ig
ig
ig
ig
l
- Hg
l = 10mg/L Hg

1.5mL Sb 1000mg/L (#M10280) = 15,000 µg/L Sb
1.0mL As 1000mg/L (#M10281) = 10,000 µg/L As
2.0mL Se 1000 mg/L (#M10277) = 20,000 µg/L Se
0.045mL Pb 10,000mg/L (#M10839) = 4500 µg/L Pb
0.4mL Tl 1000 mg/L (#M10566) = 4000 µg/L Tl
0.1mL Ag 1000 mg/L (#M10310) = 1000 µg/L Ag

nl = 3.0ug/L Hg

#M11103 09-21-12 AMA — GFAA LOD/LOQ water spiking soln: Into a 1L vol. flask, pipet 10mL of #M11102 and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12

#M11086 cont...

100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 10 mls #M10839 Pb (ex 10/13) 10 mls #M10284 Zn (ex 11/12) = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 AL (ex 11/13) 10 mls #M10570 Na (ex 4/13),10 mls #m10570 Na (ex 3/13), 10 mls #m10667 K (ex 6/13) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 AL (ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 AL (ex into 1000 ml vol flask = 1,000,000 ug/l std Bring the 1000 ml volumetric up to mark with DI H2O

#M11087
9-17-12 ZA
5% HCl
5% HNO3

Continuing Calibration Standard 1(CCV1)

Into a one liter volmetric flask pipet 50mls of # M11031 (ex 8/13) and 5 ml of #M11085 (ex 09/13).
ex.nov 8/13
Bring up to mark with DI H2O

Continuing Calibration Standard 2(CCV2)

Into a one liter volmetric flask pipet 5 mls of # M11031 (ex 8/13) and 0.5 ml of #M11085 (ex 09-13).
ex.nov 8/13
Bring up to mark with DI H2O

#M11088 ICSAB into 500 ml vol flask pipet 50mls #M1108[illegible]
9-17-12 ZA 2.5mls #M11031 & #M11085. Bring up to mark with H_2O ex 4/13.

#M11089 09/17/12 SF TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.4mL Glacial Acetic (AB534) and 128.6mL 10N NaOH (#M10910). Dilute 20L with DI H_2O and mix pH = 4.93 ± 0.05
Exp: 09/17/13

#M11090 9-18-12 ZA TCLP Extraction fluid #1 into 20L carboy pipet 11.4mL Glacial Acetic Acid (AB-534) & 128.6 ml 10N NaOH (#M10910)
ox 9/18/13 Dilute to 20L with DI H_2O and mix pH = 4.93 ± .05

#M11091 09/19/12 SF Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11092 09/19/12 SF Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11093 09/19/12 SF Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M11092) into 100ml = 3.0ug/L Hg

#M11076 09/11/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11077 09/11/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11078 09/11/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11077) into 100ml = 3.0ug/L Hg
#M11079 09/11/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11080 09/11/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11077) into 100ml = 0.2ug/L Hg
#M11081 09/11/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11082 09/11/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11083 09/11/12 SF NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H2O.
Exp: 03/11/13

#M11084 09/17/12 SF Potassium Permanganate Soln: 50g Potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H2O.
Exp: 03/17/13

#M11085 9-17-12 Custom Assurance std Spex Certiprep lot # ~~XE3919212~~ # 15-182CR ox 9-15-13:

#M11086 9-17-12

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10837(ex 3/13) and 1.0 mls of #M11085 (ex 09/13) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M10837(ex 4/13) and #M11085 (ex 9/13) and 1 mL of #M10564 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M10837 (ex 4/13),10 mls #M10568 Be (ex 4/13),10 mls #M10278 Cd (ex 11/12)

P
mL Glacial
8.6mL 10MNaOH
D.I.H2O and

6

#M11086 Cont....

#M11071 09/07/12 LSF

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	10	M10567	1000	0.5
Sn	10	M10562	1000	0.5
Sr	2	M10569	1000	0.1
Ti	8	M10709	1000	0.4
W	36	M10559	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/20/13

#M11072 09/07/12 LSF

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M10667	10000	2.5
Na	600	M10570	10000	3

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/20/13

#M11073 09/07/12 LSF

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	16	M10735	1000	0.8
Si	200	M10860	1000	10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 11/25/12

#M11074 09/10/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet [illegible] mL Glacial Acetic Acid (AB5341) and [illegible] mL NaOH (#M10910). Dilute to 20L with [illegible]. min. pH = 4.93 ± 0.05

Exp: 09/10/13

#M11075 09/10/12 LSF Stannous Chloride (JT Baker) - Lot NO. 000000 57796

Exp: 03/29/17

ous Chloride (#M\0485) in
'ater.

ng up to

L) to
1 L

eate a
rking

(mL) to
nto 1 L
72
16
48
2

create a
working

#M110670 09/07/12 LSF

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	2640		10000	13.2
Na	960		10000	4.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/20/13

#M110668 @ 9-7-12
ICV List 2. Into 1 Liter volumetric flask →
5% HCl pipet 1 ml of #M10709 #M110516, #M105167, #M105162, #M105169
5% HNO_3 Bring up to mark with DI H_2O. = 1000ug/L List 2 ex. April 20, 2013.

#M11069 09/07/12 LSF

5% HNO_3
5% HCL

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	52	M10735	1000	2.6
Si	192	M10860	1000	9.6

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 11/25/12

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M10310	1000	0.2
Al	36	M10630	10000	0.18
As	24	M10781	1000	1.2
Ba	1.8	M11052	1000	0.09
Be	0.6	M10568	1000	0.03
Ca	100	M10669	10000	0.5
Cd	2	M10278	1000	0.1
Co	4	M10561	1000	0.2
Cr	4	M11053	10000	0.02
Cu	7	M11051	10000	0.035
Fe	100	M10896	10000	0.5
Mg	40	M10663	10000	0.2
Mn	4	M11054	10000	0.02
Mo	7	M10560	1000	0.35
Ni	6	M10565	1000	0.3
Pb	4	M10831	10000	0.02
Sb	12	M10230	1000	0.6
Se	13	M10233	1000	0.65
Tl	15	M10566	1000	0.75
V	5	M10567	1000	0.25
Zn	10	M10569	10000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 11/25/12

#M11663 09/04/12 LSF

Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11064 09/05/12 HNO_3 Modifier - Into a 100mL vol. Flask, pipet 20mLs HNO_3 (M9853) and bring up to volume with Milli-Q H_2O.
AMA

#M11065 09/07/12 LSF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into flask
Ag	4	M10310	1000	0.2
Al	9.6	M10678	10000	0.048
As	32	M10781	1000	1.6
Ba	2	M11052	1000	0.1
Be	1.6	M10562	1000	0.08
Ca	56	M10669	10000	0.28
Cd	1.6	M10778	1000	0.08
Co	9.6	M10561	1000	0.48
Cr	5.6	M11053	10000	0.028
Cu	16	M11051	10000	0.08
Fe	72	M10671	10000	0.36
Mg	32	M10668	10000	0.16
Mn	6	M11054	10000	0.03
Mo	9.6	M10560	1000	0.48
Ni	4.8	M10566	1000	0.24
Pb	10	M10839	10000	0.05
Sb	32	M10780	1000	1.6
Se	16	M10847	1000	0.8
Tl	19	M10566	1000	0.95
V	3.2	M10785	1000	0.16
Zn	12	M10681	10000	0.06

Of this Base standard, pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for a digestion spike standard.

Expires: 11/25/12

M11066 #M11LSF 09/07/12 LSF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into flask
Li	14.4	M10567	1000	0.72
Sn	20	M10562	1000	1
Sr	3.2	M10569	1000	0.16
Ti	9.6	M10979	1000	0.48
W	24	M10559	1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for a digestion spike standard.

Expires: 04/20/13

retiprep Lot# #M11047 08/24/12 I5F

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10985) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11048 TCLP Soln #1: Into a 20L carboy pipet 114 mls Glacial Acetic Acid (AB: 534) and 128.6 mL 10N NaOH (#M10910). Dilute to 20L with DI H_2O and mix pH = 4.93±.0

#M11049 08/27/12 I5F Potassium persulfate soln: 50g potassium persulfate (#M10573) dissolved into 1,000mL DI. H_2O. Exp: 02/27/13

#M11050 08/27/12 I5F Potassium permanganate soln: 50g potassium permanganate (#M9903) dissolved into 1,000mL of DI. H_2O. Exp: 02/27/13

#M11051 08-29-12 CPI Cu 10,000mg/L Lot# 12G118 ex Feb 22, 2014.

#M11052 08-28-12 CPI Ba, 1000mg/L Lot # 12G245 ex Feb 22, 2014.

#M11053 08-28-12 CPI Cr, 10,000 mg/L Lot # 11K059 ex Feb, 22 2014.

#M11054 8-28-12 CPI Mn 10,000mg/L Lot #11L109 ex Feb 22, 2014

#M11055 8-30-12 Spex Certiprep Custom Assurance Std Lot # 15-153CR ex Aug 30, 2013.

#M11056 8-30-12 SCP Science Tungsten 1000ug/L ex. 12/13

#M11057 09/04/12 I5F

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11058 09/04/12 I5F

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11059 09/04/12 I5F

Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M11058) into 100ml = 3.0ug/L Hg

#M11060 09/04/12 I5F

Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11061 09/04/12 I5F

Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M11058) into 100ml = 0.2ug/L Hg

#M11062 09/04/12 I5F

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

Page 1975

#M11031 8-17-12 Custom Assurance Stcl Spex
8-12224P - ex Aug 15, 2013

#M11032 08/20/12 5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11033 08/20/12 5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11034 08/20/12 5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11033) into 100ml = 3.0ug/L Hg
#M11035 08/20/12 5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11036 08/20/12 5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11033) into 100ml = 0.2ug/L Hg
#M11037 08/20/12 5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1 part HNO3 (AB:
#M11038 08/20/12 5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11039 08/23/12 3F (Fisher) Hydroxylamine Sulfate Lot#111718 Exp: 08/23/13

#M11040 08/23/12 5F TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.4mL Glacial Acetic Acid (AB: 534) and 12.8mL 1.0N NaOH. Dilute to 20L with DI H2O. pH = 4.93 ± 0.05
Exp: 08/23/13

#M11041 08/24/12 5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11042 08/24/12 5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11043 08/24/12 5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11042) into 100ml = 3.0ug/L Hg
#M11044 08/24/12 5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11045 08/24/12 5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11042) into 100ml = 0.2ug/L Hg

#M11016 08/06/12 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11013) into 100ml = 0.2ug/L Hg
#M11017 08/06/12 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11018 08/06/12 AMA	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10985) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11019 08/07/12SF TCLP Extraction Fluid #1: Into a 2oL Carboy pipet 11.4mL Glacial Acetic Acid (A3,534) and 128.6mL 10N NaOH (#M10910), Dilute to 20L w/D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 08/07/13

#M11020 8-8-12 JA Custom Assurance Std, Spex Certiprep Lot # 8-97HP Exp Aug 2013

#M11021 08/09/12SF Potassium Permanganate Soln: 50g potassium permanganate (#M9703) dissolve into 1,000mL of D.I. H_2O.
Exp: 02/09/13

#M11022 08/09/12 AMA Pd/Mg Modifier - Into a 50mL vol. flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with Milli-Q H_2O. Exp. 10-30-12

#M11023 08/10/12SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574), and 60g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H_2O.
Exp: 02/10/13

#M11024 08/13/12SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11025 08/13/12SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11026 08/13/12SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11025) into 100ml = 3.0ug/L Hg
#M11027 08/13/12SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11028 08/13/12SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11025) into 100ml = 0.2ug/L Hg
#M11029 08/13/12SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11030 08/13/12SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10985) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11002 07/23/12SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M11003 07/23/12SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M[illegible]) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M11004 07/26/12SF TCLP Extraction Fluid #1: Into a 20L carboy Pipet 114ml Glacial Acetic Acid (AB 534) and 128.6 ml 10N NaOH (#10910). Dilute to 20L with DI and mix. pH = 4.93 ± 0.05

Exp: 07/26/13

#M11005 09/30/12SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11006 07/30/12SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11007 07/30/12SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M11006) into 100ml = 3.0ug/L Hg

#M11008 07/30/12SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11009 07/30/12SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M11006) into 100ml = 0.2ug/L Hg

#M11010 07/30/12SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

07/30/12SF
#M11011 07/30/12SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10985) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M11012 08/06/12 AMA — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11013 08/06/12 AMA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11014 08/06/12 AMA — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M11013) into 100ml = 3.0ug/L Hg

#M11015 08/06/12 AMA — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10987 07/12/12 I5F Potassium Persulfate ~~5dm: 50g potas~~ 07/12/12 I5F 07/12/12 I5F Lot NO: 117410 Exp: 07/12/13

#M10988 07/16/12 I5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10989 07/16/12 I5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10990 07/16/12 I5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10989) into 100ml = 3.0ug/L Hg
#M10991 07/16/12 I5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10992 07/16/12 I5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10989) into 100ml = 0.2ug/L Hg
#M10993 07/16/12 I5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10994 07/16/12 I5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10985) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10995 07/17/12 I5F TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.4mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 07/17/13

#M10996 07/20/12 I5F potassium permanganate 5dm: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H2O.
Exp: 01/20/13

#M10997 07/23/12 I5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
[illegible]	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
[illegible]	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10998) into 100ml = 3.0ug/L Hg
[illegible]	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
[illegible]	Hg MRL:	0.2ml of 100ug/L Hg (#M10998) into 100ml = 0.2ug/L Hg

#M10976 07/09/12 LSF Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10977 07/09/12 LSF Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10883) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10978 07/09/12 LSF Potassium persulfate soln: 50g potassium persulfate (#M10573) dissolve into 1000mL DI. H2O.
Exp: 01/09/13

#M10979
7-10-12
JA

ICAP Working Standards List 2

.5% HNO3 .5%HCL

Standard name	Pipet the following respectively:
1	0.01 mls of #M10837 and .001mls #M10559 = 1 ug/L
10	0.10 mls of #M10837 and .01mls #M10559 = 10 ug/L
100	1 mls of #M10334 and 0.1mls #M10559 = 100 ug/L
1000	10 mls of #M10334 and 1.0mls #M10559 = 1000 ug/L
10000	100 mls of #M10334 and 10mls #M10559 = 10000 ug/L

ex3-13

#M10980 7-10-12 JA Initial Calibration Standard (ICV) List 2
Into 1 liter vol flsk pipet 1 ml of #M10567,M10562,M10569,M10709, and M9930
bring up to mark with DI H2O ex 8/12

#M10981 7-10-12 JA Continuing Calibration Standard (CCV)
into 1 liter vol flask pipet 10 mls of #M10837 and 1.0mls #M10559 = 1000 ug/L
bring up to mark with DI H20 ex 3-13

#M10982 07-10-12 AMA GFAA LOD/LOQ Soil Working Std: Into a 200mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
(1% HNO_3)
Exp. 11/25/12
1.2mL Sb 1000mg/L (#M10280) = 6,000 µg/L Sb
3.2mL As 1000mg/L (#M10281) = 16,000 µg/L As
3.2mL Se 1000mg/L (#M10277) = 16,000 µg/L Se
0.08mL Pb 10,000mg/L (#M10839) = 4,000 µg/L Pb
1.0mL Tl 1000mg/L (#M10566) = 5,000 µg/L Tl
0.12mL Ag 1000mg/L (#M10310) = 600 µg/L Ag

#M10983 07-10-12 AMA GFAA LOD/LOQ Soil Spiking soln: Into a 1L vol. flask, pipet 10mL of #M10982 and bring up to volume with D.I H_2O.
(1% HNO_3)
Exp. 11/25/12

#M10984 07/10/12 LSF Elektrolyte - Lot NO.: 1W350A Exp: 12/16/14

#M10985 07/11/12 LSF Stannous Chloride - Lot NO. K475588 Exp: 07/11/13

#M10986 07/12/12 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M10[illegible]) and 60g hydroxylamine sulfate

#M10962 06/29/12 13F Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H2O.
Exp: 12/29/12

#M10963 06/29/13 13F TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 06/29/13

#M10964 07/02/12 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10965 07/02/12 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10966 07/02/12 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10965) into 100ml = 3.0ug/L Hg
#M10967 07/02/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10968 07/02/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10965) into 100ml = 0.2ug/L Hg
#M10969 07/02/12 13F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10970 07/02/12 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10291) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M10971 07/09/12 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10972 07/09/12 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10973 07/09/12 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10972) into 100ml = 3.0ug/L Hg
#M10974 07/09/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10975 07/09/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10972) into 100ml = 0.2ug/L Hg

#M10954 06/25/12SF — Hg MRL: (0.2% HNO3, HCl) — 0.2ml of 100ug/L Hg (#M [illegible]) into 100ml = 0.2ug/L Hg

#M10955 06/25/12SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1 part HNO3 (AB: 536)

#M10956 06/25/12SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M[illegible]) in 70 mL HCl (AB: 537). Bring up to volume with DI Water

#M10957 06/25/12SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 6og NaCl (#M[illegible]) and hydroxylamine Sulfate (#M[illegible]) in [illegible] Mill-Q H2O.

Exp: 12/25/12

#M10958 6-27-12

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10837(ex 3/13) and 1.0 mls of #M10470 (ex 09/12) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M10837(ex 4/13) and 1.0 ml of #M10310 Ag, #M10568 Be,#M10278 Cd and #M10564 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M10837 (ex 4/13),10 mls #M10568 Be (ex 4/13),10 mls #M10278 Cd (ex 11/12)
100k	10 mls of #M10144 Cu (ex 9/12) , 10 mls of #M10141 Mn (ex 9/12) , 10 mls of #M10139 Cr (ex 9/12), 10 mls #M10899 Fe (ex 9/12) 10 mls #M10284 Zn (ex 09/12) = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 Al (ex 11/13) 10 mls #M10570 Na (ex 4/13),10 mls #m10570 Na (ex 3/13), 10 mls #m10667 K (ex 6/13) into 1000 ml vol flask= 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 Al (ex 11/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 Al (ex 11/13) into 1000 ml vol flask = 1,000,000 ug/l std Bring the 1000 ml volumetric up to mark with DI H2O

#M10959 ICV/LCSW onto 1 Liter vol flask pipet 10mls #M10837 [illegible] 6-27-12 #M10856, 0.5mls #M10560. Bring up to mark with DI H2O. [illegible]

#M10960 CCV1, CCV2. onto 2 1 Liter volumetrics [illegible]
5% HCL 6-27-12
5% HNO3
CCV1 → 50mls #M10837 and 50mls [illegible] with DI H2O
CCV2 → 5mls #M10837 and 0.5mls [illegible] mark with DI H2O. [illegible]

#M10961 CSAB onto 500 ml vol flask pipet 5mls #M10837 [illegible]
5% HCL 6-27-12
5% HNO3
#M10470 Bring up to mark w/ DI H2O. [illegible]

te HCl (AB.537)
538)

e, dissolve
41) in 70mL HCl
with D.I. H2O.

(AB: 538)

ide (# M 1041) in

#M 10563) into

=100ug/L Hg
0mL = 5.0ug/L Hg

100mL = 10mg/L Hg
ug/L Hg
: 10ug/L Hg

P ox June 15 2013

#M10940 06/19/12 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10941 06/19/12 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10942 06/19/12 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 1041) into 100ml = 3.0ug/L Hg

#M10943 06/19/12 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10944 06/19/12 LSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 1041) into 100ml = 0.2ug/L Hg

#M10945 06/19/12 LSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)

#M10946 06/19/12 LSF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 1041) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10947 06/19/12 LSF Potassium permanganate sol'n: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H2O.
Exp: 12/19/12

#M10948 06/19/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.4mL Glacial Acetic Acid (AB.539) and 128.6mL 10 N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 06/19/13

#M10949 06/24/12
AMA — Pd/Mg Modifier – Into a 50mL vol. Flask, pipet 15mL *M10726 and 5mL *M10551. Bring up to volume with Milli-Q water. Exp. 10-30-12

#M10950 06/25/12 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10951 06/25/12 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10952 06/25/12 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 1051) into 100ml = 3.0ug/L Hg

#M10953 06/25/12 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10928 06/04/12 SP Hg Aqua Regia Reagent: "Carefully" in hood mix 3 parts HCl with one part #NO3 (AB 538)

#M10929 06/04/12 SF Stannous Chloride Reagent: Into a 100mL volumetric flask, dissolve 100g Stannous Chloride (#M10241) in some D.I. water (AB 537). Bring up to volume with D.I. water.

#M10930 06/11/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10931 06/11/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10932 06/11/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10931) into 100ml = 3.0ug/L Hg
#M10933 06/11/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10934 06/11/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10931) into 100ml = 0.2ug/L Hg
#M10935 06/11/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10936 06/11/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10937 06/11/12 SP Hg 10Q/LOD Spiking soln (water) - 1.0mL of 1000mg/L Hg (#M10563) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
5.0mL of 100ug/L Hg into 100mL = 5.0ug/L Hg

#M10938 06/11/12 SF Hg 10Q/LOD Spiking soln (soil) - 1.0mL of 1000 mg/L Hg (#M10563) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
10.0mL of 100ug/L Hg into 100mL = 10ug/L Hg

#M10939 6-18-12 Custom Assurance std. Spex CertiPrep lot # 7-188YP

Page 1984

#M10914 05/29/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10913) into 100ml = 3.0ug/L Hg
#M10915 05/29/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10916 05/29/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10913) into 100ml = 0.2ug/L Hg
#M10917 05/29/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
05/29/12 LSF #M10918 05/29/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10919 05/29/12 LSF Potassium permanganate Soln: 50g potassium permanganate (#M9908) dissolve into 1000mL of D.I. H_2O.
Exp: 11/29/12

#M10920 05/29/12 LSF NaCl Hydroxylamine sulfate Reagent: Dissolve 100g NaCl (#M9574) and 100g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H_2O.
Exp: 11/29/12

#M10921 05/30/12 LSF TCLP Extraction Fluid #1: Into a 20L Carboy pipet 11.4mL Glacial Acetic Acid (AB.534) and 128.6ml 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp. 05/30/13

#M10922 05/30/12 LSF 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M10571) and bring up to volume with D.I. H_2O.
Exp: 05/30/13

#M10923 06/04/12 LSF 06/04/12 LSF Hg working stds: (0.2% HNO_3, HCl)
1.0mL of 1000mg/L Hg (#M10563) into 100mL = 10mg/L Hg
1.0 mL of 10mg/L Hg into 100mL = 100ug/L Hg
0.5 mL of 100ug/L Hg into 100mL = 0.5ug/L Hg
1.0mL of 100ug/L Hg into 100mL = 1.0ug/L Hg
2.0mL of 100ug/L Hg into 100mL = 2.0ug/L Hg
4.0mL of 100ug/L Hg into 100mL = 4.0ug/L Hg
5.0 mL of 100ug/L Hg into 100mL = 5.0ug/L Hg
10.0 mL of 100ug/L Hg into 100mL = 10.0ug/L Hg

#M10924 06/04/12 LSF Hg-Alt Source working std: (0.2% HNO_3, HCl) 06/04/12 LSF
1.0mL of 1000mg/L Hg (#M9063) into 100mL = 10mg/L Hg
1.0mL of 10mg/L into 100mL = 100ug/L Hg

#M10925 06/04/12 LSF Hg ICV ICSW (0.2% HNO_3, HCl)
3.0mL of 100ug/L Hg (#M10924) into 100mL = 3.0ug/L Hg

#M10926 06/04/12 LSF Hg CCV (0.2% HNO_3, HCl)
1.0mL of 1000mg/L Hg (#M9954) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
3.0mL of 100ug/L Hg into 100mL = 3.0ug/L Hg

#M10927 06/04/12 LSF Hg MRL: (0.2% HNO_3, HCl)
0.2mL of 100ug/L Hg (#M10924) into 100mL = 0.2ug/L Hg

#M10901 05/21/12 I5F — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10902 05/21/12 I5F — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10903 05/21/12 I5F — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10902) into 100ml = 3.0ug/L Hg

#M10904 05/21/12 I5F — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10905 05/21/12 I5F — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10902) into 100ml = 0.2ug/L Hg

#M10906 05/21/12 I3F — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)

#M10907 05/21/12 I5F — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10908 05/21/12 I5F — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl & 60g hydroxylamine sulfate in 500mL Milli-a H2O.
Exp: 11/21/12

#M10909 05/22/12 I3F — Potassium Persulfate Soln: 50g potassium persulfate dissolve into 1,000mL D.I. H2O.
Exp: 11/22/12

#M10910 05/24/12 I3F — 10N NaOH: Into a 1L Vol. flask add 400g NaOH (#M10511) and bring up to volume with D.I. H2O.
Exp: 05/24/13

#M10911 05/24/12 I3F — TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.5mL Glacial Acetic Acid (AB.534) and 12.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/24/13

#M10912 05/29/12 I5F — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml = 5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10913 05/29/12 I5F — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

rmanganate
e into 1,000mL

#M10886 05-09-12 AMA TCLP Extraction Fluid #2 - Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB:534). Dilute to 20L with D.I. H_2O and mix. pH= 2.88 ± 0.05. Exp. 05-09-13

#M10887 05/11/12 I25F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10888 05/11/12 I25F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10889 05/11/12 I25F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10888) into 100ml = 3.0ug/L Hg
#M10890 05/11/12 I25F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10891 05/11/12 I25F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10888) into 100ml = 0.2ug/L Hg
#M10892 05/11/12 I25F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10893 05/11/12 I25F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10894) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

3: 538)

(# M 10894) in

acial Acetic
aOH (#M10855).
mix.

#M10894 05/11/12 I5F TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10855). Dilute to 20L with D.I. H_2O and mix. (pH = 4.93 ± 0.05)
Exp: 05/11/13

etic Acid (AB:537)
2 to 20L with
5)

82

#M10895 Custom Assurance Std Spex lot# 7-110YP ex. May 15 2013.
D 5-14-12

#M10896 5-14-12 Fe 10,000mg/L CPI lot# 12C111 ex. NOV 2013
D

#M10897 5-14-12 Al 10,000 mg/L CPI lot # 11L100 ex NOV 2013
D

5 and 5mL
Exp. 10-30-12

#M10898 5-14-12 Ca 10,000mg/L CPI lot # 12D128 ex NOV 2013
D

8889

#M10899 5-14-12 Mg 10,000 mg/L CPI Lot # 12C187 ex NOV 2013
D

#M10900 05/18/12 I5F Potassium Permanganate soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 11/18/12

#M10873 05/08/12 LSF Potassium permanganate solin: 50g Potassium permanganate (#M9803) dissolve into 1,000ml of D.I. H2O

Exp: 11/03/12 LSF

#M10874 05/04/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10875 05/04/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10876 05/04/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10875) into 100ml = 3.0ug/L Hg
#M10877 05/04/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10878 05/04/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10875) into 100ml = 0.2ug/L Hg
#M10879 05/04/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10880 05/04/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10881 05/04/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10855). Exp: 05/04/13 (pH=4.93±0.05) Dilute to 20L with D.I. H2O and mix.

#M10882 05/04/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10855). Dilute to 20L with D.I. H2O and mix. (pH=4.93±0.05)

Exp: 05/04/13 05/04/12 LSF

#M10883 05/07/12 GJG Stannous Chloride Crystal, Macron Chemicals Lot No. K40582

#M10884 05/08/12 GJG Pd/Mg Modifier: Into a 50 mL vol. flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with MilliQ water. Exp. 10-30-12

#M10885 05/08/12 GJG Turbidity Standard 2.0 NTV, GFS Chemicals Lot No. C148889 Expires: 05/13

#M

#M10861 04/27/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10862 04/27/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10863 04/27/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10862) into 100ml = 3.0ug/L Hg
#M10864 04/27/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10865 04/27/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10862) into 100ml = 0.2ug/L Hg
#M10866 04/27/12 LSF	Hg Aqua Regia Reagent	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10867 04/27/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10868 04/30/12 GAE Interferents A Spex CertiPrep Lot No. 7-32XP Exp. 04-30-13

#M10869 04/30/12 GAE TCLP #1 Extraction Fluid: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10855). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp. 04-30-13

#M10870
JA
5-2-12

ICAP Working Standards Boron & Silicon

Standard name	Into 1 liter Pipet the following respectively:
10	0.1 mls of #M10837 and .01mls #M10860 = 10 ug/L
50	0.5 mls of #M10837 and .05mls #M10860 = 50 ug/L
100	1 mls of #M10837 and 0.1mls #M10860 = 100 ug/L
1000	10 mls of #M10837 and 1.0mls #M10860 = 1000 ug/L
10000	100 mls of #M10837 and 10mls #M10860 = 10000 ug/L

ex 3-13

#10871
JA
5-2-12

Initial Calibration Standard (ICV) B, Si
Into 1 liter vol flsk pipet 1 ml of #M10275 & M10564
bring up to mark with DI H2O ex 11/12

#10872
JA
5-2-12

Continuing Calibration Standard (CCV)
Into 1 liter vol flask pipet 10 mls of #M10837 and 1.0mls #M10564 = 1000 ug/L
bring up to mark with DI H20 ex 12-12

04/19/2013F

#M10847 04/19/2013F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10848 04/19/2013F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10849 04/19/2013F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10848) into 100ml = 3.0ug/L Hg
#M10850 04/19/2013F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10851 04/19/2013F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10848) into 100ml = 0.2ug/L Hg
#M10852 04/19/2013F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10853 04/19/2013F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10854 04/19/2013F Potassium Permanganate soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 10/19/12

#M10855 04/24/2013F 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M10528) and bring up to volume with D.I. H_2O.
Exp: 04/24/13

#M10856 04/24/2013F TCLP Extraction Fluid #1: Into 20L Carboy pipet 114mL Glacial Acetic Acid (AB:534) add 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H_2O and mix.
EXP: 04/24/13 (pH=4.93±0.05)

#M10857 04/25/12 SPLP Ext. Fluid Acid Mixture: Into a 200mL vol. flask, add 12g H_2SO_4 (AB:528) and 8g Conc. HNO_3 (AB:551). Bring up to volume with D.I. H_2O.
GAE Exp. 04-25-13

#M10858 04/25/12 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20±0.05 with #M10857.
GAE

#M10859 04/26/2013F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine Sulfate (#M10210) in 500mL Milli-a H_2O.
Exp: 10/26/12

#M10860 4-27-2012 Silicon 1000 mg/L FISHER lot # 116650 exp 12/13
JB

to a lume 13

a Volume 13.

a Volume 13.

issolve

) in

hydroxylamine H2O.

7821

5

#M10833 04/05/12 13F	TCLP Extraction Fluid #1:	Exp. 04/05/13	Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
#M10834 04/09/12 GAE	GFAA Base Std (25µg/L)	(5% HCL, 2% HNO_3)	Pipet 25mL of #M10818 into a 1L vol. flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-13
#M10835 04/09/12 GAE	GFAA CCV Std (10µg/L)	(5% HCL, 2% HNO_3)	Pipet 10mL of #M10818 into a 1L vol. flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-13
#M10836 04/09/12 GAE	GFAA Alt. Source Std (10µg/L)	(5% HCL, 2% HNO_3)	Pipet 50mL of #M10819 into a 1L vol. flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-13
#M10837. 4-11-2012 A	Custom Assurance std 100µg/L Spex CertiPrep		Lot # 11-189 CR ex 3/13
#M10838 4-11-2012 A	Custom Assurance std x spike Spex CertiPrep		Lot # 11-188 Cr ex 3/13
#M10839 4-11-12 A	CPI Pb 10,000 mg/L		Lot # 11J007 ex 10/13

#M10840 04/12/12 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10841 04/12/12 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10842 04/12/12 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10841) into 100ml = 3.0ug/L Hg
#M10843 04/12/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10844 04/12/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10841) into 100ml = 0.2ug/L Hg
#M10845 04/12/12 13F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10846 04/12/12 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10820 04/02/12 GFAA Alt Source Std (10µg/L) (1% HNO_3) Pipet 50mL of #M10867 into 1L vol. flask and bring up to vol. with Milli-Q H_2O. Exp: [illegible]
GAE

#M10821 04/02/12 GFAA CCV Std (10µg/L) (1% HNO_3) Pipet 10mL of #M10818 into 1L vol. flask and bring up to vol. with Milli-Q H_2O. Exp: [illegible]
GAE

#M10822 04/02/12 GFAA Base Std (25µg/L) (1% HNO_3) Pipet 25mL of #M10818 into 1L vol. flask and bring up to vol. with Milli-Q H_2O. Exp: [illegible]
GAE

#M10823 04/03/12: Potassium persulfate Soln: 50g Potassium persulfate (#M10410) into 1,000mL D.I. H_2O.
Exp: 10/03/12 04/03/12 15F

#M10824 04/03/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10825 04/03/12 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10826 04/03/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10825) into 100ml = 3.0ug/L Hg
#M10827 04/03/12 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10828 04/03/12 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10825) into 100ml = 0.2ug/L Hg
#M10829 04/03/12 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10830 04/03/12 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10831 04/03/12 15F NaCl Hydroxylamine Sulfate Reagent: Dissolve 600g NaCl (#M9544) and [illegible] Sulfate (#M10210) in 500mL [illegible]
Exp: 10/03/12

#M10832 4-4-2012 Yttrium 10,000 Environmental Express Lot # [illegible]
24 exp [illegible]

#M10809 03/22/12 I3F — Hg Alt Source working std: 1.0mL of 1000mg/L Hg (#M9063) into 100mL = 10 mg/L Hg
(0.2%) HNO_3, HCl) 1.0mL of 10mg/L into 100mL = 100ug/L Hg

#M10810 03/22/12 I5F — Hg ICV/LCSW 3.0mL of 100ug/L Hg (#M10809) into 100mL = 3.0ug/L Hg
(0.2%) HNO_3, HCl)

#M10811 03/22/12 I3F — Hg CCV 1.0mL of 100mg/L Hg (#M9934) into 100mL = 10mg/L Hg
(0.2% HNO_3, HCl) 1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
3.0mL of 100ug/L Hg into 100mL = 3.0ug/L Hg

#M10812 03/22/12 I3F — Hg MRL: 0.2mL of 100ug/L (#M10809) into 100mL = 0.2ug/L Hg
(0.2% HNO_3, HCl)

#M10813 03/22/12 I3F — Hg Aqua Regia Reagent: Carefully in hood, mix 3 parts HCl (AB.537) with 1 part HNO_3 (AB.547)

#M10814 03/22/12 I5F — Stannous Chloride Reagent: Into a 1000mL volumetric flask, dissolve 100g Stannous Chloride (#M10572) in 70mL HCl (AB.537). Bring up to volume w/ D.I. H_2O.

#M10815 03/23/12 I5F — 3050 LOQ V
10mL HCl
10mL HNO_3

LOQ

3050 [redacted] Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	14.4		1000	0.72
Sn	20		1000	1
Sr	3.2		1000	0.16
Tl	9.6		1000	0.48
W	24		1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 08/[illegible]/2012

#M10816 03/29/12 GE — Inorganic Ventures CTI-SPK-1 Lot no. F2-MEB417037 Exp. 04-01-2013

#M10817 03/29/12 GE — Inorganic Ventures CTI-GFCAL-1 Lot no. F2-MEB417036 Exp. 04-01-2013

#M10818 04/02/12 GE — GFAA Working Base Std. (1000µg/L): Pipet 10mL of #M10816 into a 1 L vol. flask & bring up to volume with MilliQ water. Exp. 04-01-13
(1% HNO_3)

#M10819 04/02/12 GE — GFAA Alt. Source Working Std (200µg/L): Pipet 20mL of #M10817 into a 1L vol flask and bring up to volume with MilliQ H_2O. Exp. 04-01-13.
(1% HNO_3)

#M10801 03/12/12 GFAA Stability Check Working Standard: Into a 250mL vol. flask [illegible] and bring up to volume with DI H2O
GUE 1% HNO_3, Exp. 09-09-12
0.6mL of 1,000mg/L As (#M10781)
0.04mL of 10,000mg/L Pb (#M10142)
1.7mL of 1,000mg/L Se (#M10270)
0.9mL of 1,000mg/L Sb (#M10282)
0.4mL of 1,000mg/L Tl (#M10766)
0.07mL of 1,000mg/L Ag (#M10310)

#M10802 03/12/12 GFAA Stability Check Standard: Pipet 5mL of #M10801 into 1L vol. flask and bring up to volume with D.I. H_2O
GUE 1% HNO_3, Exp. 09-09-12

#M10803 03/13/12 TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.4mL Glacial Acetic Acid (AB.534) and 128.6mL 1N NaOH (#M10102) Dilute to 20L with D.I. H_2O and mix.
(pH=4.93±0.05) Exp: 03/13/13

#M10804 03/13/12 1N HCl for TCLP: Into a 1L vol. flask, partially filled with Milli-Q H_2O, add 83mL of concentrated HCl (AB.543) and bring up to volume with Milli-Q water.
GUE Exp. 03/13/13

#M10805 3-20-2012 MDL, LOQ check (3010) Into 1 liter volumetric flask pipet 1mL M10762, bring up to mark with 5% HNO_3. X500 dilution - use 1mL into 50 or 10mL into 500mL for = 200ug/L.
A

#M10805A 3-20-2012 LOD, LOQ Check (3050) Into 1 liter volumetric flask pipet 1mL M10762. Bring up to mark with 5% HNO_3. X400 dilution - use 1mL into 50 or 10mL into 500mL for = 240 ug/L or 6mg/kg.
A

#M10807 03/22/12 SF Potassium permanganate soln: 50g potassium permanganate dissolve into 1000mL of DI H_2O
Exp: 09/22/12 SF

#M10808 03/22/12 SF Hg working stds: (0.2% HNO_3, HCl)
1.6mL of 1000mg/L Hg (#M10823) into 100mL = 16mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 0.1mg/L Hg
0.5mL of 10mg/L Hg into 100mL = 0.05mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 0.1mg/L Hg
2.0mL of 10mg/L Hg into 100mL = 0.2mg/L Hg
4.0mL of 10mg/L Hg into 100mL = 0.4mg/L Hg
5.0mL of 10mg/L Hg into 100mL = 0.5mg/L Hg
10.0mL of 10mg/L Hg into 100mL = 1.0mg/L Hg

#M10790 03/06/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10789) into 100ml = 3.0ug/L Hg
#M10791 03/06/12 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10792 03/06/12 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10789) into 100ml = 0.2ug/L Hg
#M10793 03/06/12 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M10794 03/09/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10795 03/09/12 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10796 03/09/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10795) into 100ml = 3.0ug/L Hg
#M10797 03/09/12 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10798 03/09/12 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10795) into 100ml = 0.2ug/L Hg
#M10799 03/09/12 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10800 03/09/12 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

3-12-12

#M10777 02/28/12SF — Hg Alt Source Working Std: (0.2% HNO3, HCl) — 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg; 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10778 02/28/12SF — Hg ICV / LCSW (0.2% HNO3, HCl) — 3.0ml of 100ug/L Hg (#M10777) into 100ml = 3.0ug/L Hg

#M10779 02/28/12SF — Hg CCV (0.2% HNO3, HCl) — 1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg; 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg; 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10780 02/28/12SF — Hg MRL: (0.2% HNO3, HCl) — 0.2ml of 100ug/L Hg (#M10777) into 100ml = 0.2ug/L Hg

#M10781 02/28/12SF — Hg Aqua Regia Reagent: — "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10782 02/28/12SF — Stannous Chloride Reagent: — Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10783 03/02/12 GJG — TCLP Extraction Fluid #1: (pH = 4.93 ± 0.05) — Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-534) and 128.6 mL 10N NaOH (#M10708). Dilute to 20L with DI. H_2O and mix. Exp. 03/02/13

#M10784 3-2-2012 DJ — Sulfur Working Stds ICAP and CCV — Into 4 100 ml vol flasks, pipet respectfully from #M10773 10,000 mg/L Sulfur Std.
also CCV ← 1000 Std = .01 mls of #M10773 = 1000 ug/L
10,000 std = .1 mls of #M10773 10,000 ug/L
100,000 std = 1.0 mls of #M10773 100,000 ug/L
1000K Std = 10 mls of #M10773. 1000K ug/L
Bring up to Mark with DI H_2O. ex 10/13

#M10785 3-2-2012 DJ — Sulfur ICV — into 100 ml Vol flask pipet .01mls #M10767 10,000 mg/L Sulfur = 1000ug/L S.

#M10786 03/05/12 GJG — Pd/Mg Modifier: Into a 50 ml vol. flask, pipet 15mL #M10726 and 5mL #M10551, Bring up to volume with MilliQ water. Exp. 10-30-12

#M10787 03/05/12 GJG — TCLP Extraction Fluid #2: Into a 20 L carboy, pipet 114mL Glacial Acetic Acid (AB-534). Dilute to 20 L with DI H_2O. and mix. pH = 2.88 ± 0.05. Exp. 03-05-13

#M10788 03/06/12SF — Hg Working Stds: (0.2% HNO3, HCl) — 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg; 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg; 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg; 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg; 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg; 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg; 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg; 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

3/12

#M10789 03/06/12SF — Hg Alt Source Working Std: (0.2% HNO3, HCl) — 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg; 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10764 02/17/12 13F NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g Hydroxylamine sulfate (#M10210) in 500 mL milli-Q H2O.
Exp: 08/17/12 13F

#M10765 02/21/12 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10766 02/21/12 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10767 02/21/12 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10766) into 100ml = 3.0ug/L Hg
#M10768 02/21/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10769 02/21/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10766) into 100ml = 0.2ug/L Hg
#M10770 02/21/12 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10771 02/21/12 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10772 02/21/12 15F Potassium permanganate: 50g potassium permanganate (#M9703) dissolve into 1000mL D.I H2O.
Exp: 08/21/12

#M10773 2-21-2012 Sulfur 10,000mg/ml SCP Science Lot #5120116017 ex 10/13

#M10774 02/26/12 TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB534) and 128.6mL 10N NaOH (#M10708) Dilute to 20L with D.I. H2O and mix. pH = 4.93±0.05
13F
Exp: 02/26/13

#M10775 02/27/12 TCLP Extraction Fluid #1: Into a 20L Carboy, pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H2O and mix. pH = 4.93±0.05
Exp: 02/27/13
02/27/13GE

#M10776 02/28/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10748 02/07/12/5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10749 02/07/12/5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10748) into 100ml = 3.0ug/L Hg
#M10750 02/07/12/5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10751 02/07/12/5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10748) into 100ml = 0.2ug/L Hg
#M10752 02/07/12/5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10753 02/07/12/5P	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M6572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M10754 02/14/12/5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10755 02/14/12/5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10756 02/14/12/5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10755) into 100ml = 3.0ug/L Hg
#M10757 02/14/12/5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10758 02/14/12/5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10755) into 100ml = 0.2ug/L Hg
#M10759 02/14/12/5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10760 02/14/12/5P	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M6572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10761 2-15-12 Phosphorus 10,000 mg/L Spex Certiprep Lot # AC12-161P

#M10762 2-15-12 Sulfur 10,000 mg/L Spex Certiprep Lot # AC12-1635 (exp 12/15/12)

#M10763 02/16/12/5P TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.4mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10538) Dilute to 20L with D.I. #20 and mix. pH = 4.93 ± 0.05

Exp: 02/16/13

01-23-12 GAE

#M10734 01-23-12 GAE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10735 01-23-12 GAE — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10732) into 100ml = 0.2ug/L Hg

#M10736 01-23-12 GAE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10737 01-23-12 GAE — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

0326 (aa)) in

#M10738 01-23-12 GAE — Potassium Permanganate: 50g Potassium Permanganate (#M9903) dissolved into 1,000 mL D.I. H2O. Exp. 07-23-12

#M10739 01/26/12 ISF — TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.4mL Glacial Acetic Acid (AB:539) and 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05

sCR

Exp: 01/26/13

#M10740 01/27/12 ISF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

10726

3

#M10741 01/27/12 ISF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

flask,

12.

#M10742 01/27/12 ISF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10741) into 100ml = 3.0ug/L Hg

1. flask.

#M10743 01/27/12 ISF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

04-01-12 E

flask,

01-12

#M10744 01/27/12 ISF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10741) into 100ml = 0.2ug/L Hg

#M10745 01/27/12 ISF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10746 01/27/12 ISF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#10747 02/07/12 ISF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10720 01/17/12 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10719) into 100ml = 3.0ug/L Hg
#M10721 01/17/12 GE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954 10563 01-23-12 GE) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10722 01/17/12 GE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10719) into 100ml = 0.2ug/L Hg
#M10723 01/17/12 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10724 01/17/12 GE	Stannous Chloride Reagent:	into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# MT0326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10725 1-17-12 Spex Certiprep Custom Assurance Std lot # 10-170CR ox 1/15/2013.

#M10726 01-17-12 GE Matrix Modifier 1% Pd in 8% (wt/wt) HNO_3 + Tr HCl Env. Exp. Lot No. 1101221 Exp. 01-12-13

#M10727 01-17-12 GE Pd/Mg Matrix Modifier: Into a 50mL vol flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with Milli-Q water. Exp. 10-30-12

#M10728 GE 01/20/12 GFAA Base Std (50 ug/L) (1% HNO_3) Pipet 12.5mL of #M10184 into a 250 mL vol. flask. Bring up to volume with Milli-Q H_2O. Exp. 04-01-12.

#M10729 01-20-12 GE GFAA Alt. Source Std. (25ug/L) (1% HNO_3) Pipet 31.25mL of #M10185 into a 250mL vol. flask. Bring up to volume with Milli-Q H_2O. Exp. 04-01-12.

#M10730 01-20-12 GE GFAA cal Std (25ug/L) (1% HNO_3) Pipet 50mL of #M10728 into a 100mL vol. flask. Bring up to volume with Milli-Q H_2O. Exp. 04-01-12.

#M10731 01-23-12 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10732 01-23-12 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10733 01-23-12 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10732) into 100ml = 3.0ug/L Hg

#M10707 01/06/12 TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10538). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
CSF
Exp: 01/06/13

#M10708 01/06/12 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M10571 01/06/12 CSF) and bring up to volume with D.I. H_2O
CSF
Exp: 01/06/13

#M10709 01/09/12 Titanium 1000 µg/mL CPI Lot No. 11E121 Exp. 04-20-13
GLE Rec'd 10-25-11

#M10710 01/10/12 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10711 01/10/12 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10712 01/10/12 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 6711) into 100ml = 3.0ug/L Hg
#M10713 01/10/12 CSF	Hg CCV (0.2% HNO3, HCl)	10563 01-23-12 GLE 1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10714 01/10/12 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 6711) into 100ml = 0.2ug/L Hg
#M10715 01/10/12 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10716 01/10/12 CSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10328 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10717 01/16/12 Custom Assurance Standard 100mg/L As, Ar, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn. Spex CertiPrep Lot No. ~~XCFW1-5-500~~ 5-157YP
GLE 01-16-12 GLE
Exp. 01-15-13

#M10718 01/13/12 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10719 01/13/12 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10703 1-4-12 MDL Spiking Soln' all. 50X
D into 1 Liter vol flask Pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	5	M10310	1000	0.25
Al	10	M10870	10000	0.05
As	20	M10281	1000	1
Ba	2	M10143	1000	0.1
Be	0.5	M10568	1000	0.025
Ca	50	M10569	10000	0.25
Cd	0.5	M10278	1000	0.025
Co	2.5	M10561	1000	0.125
Cr	5	M10138	10000	0.025
Cu	10	M10144	10000	0.05
Fe	20	M10671	10000	0.1
Mg	25	M10668	10000	0.125
Mn	5	M10141	10000	0.025
Mo	2.5	M10560	1000	0.125
Ni	5	M10565	1000	0.25
Pb	10	M10142	10000	0.05
Sb	20	M10280	1000	1
Se	20	M10277	1000	1
Tl	20	M10566	1000	1
V	5	M10285	1000	0.25
Zn	5	M10284	10000	0.025

ex. 9-9-12

Bring up to mark with DI H2O. use 1ml into 50mls or 10.0 mls into 500.

#M10704 1-4-12 MDL Spiking Soln' Na, K. Into One Liter Vol flask pipet the following ⇒

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M10667	10000	
Na	500	M10570	10000	

Bring up to mark with DI H_2O. use 1ml into 50mls or 10.0 mls into 500. ex. 4-2-2013

#M10705 1-4-12 MDL Spiking Soln B, Si. Into 1 Liter vol flask pipet the following.

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	20	M10225	1000	1
Si	100	M10584	1000	5

Bring up to mark with DI H_2O. Use 1ml into 50mls or 10.0 mls into 500. ex. NOV 25, 2012

#10706 1-4-12 MDL Spiking Soln. Into 1 Liter vol flask pipet the following.

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	5	M10567	1000	0.25
Sn	5	M10562	1000	0.25
Sr	5	M10569	1000	0.25
Ti	5	M10660	1000	0.25
W	10	M10559	1000	0.5

Bring up to mark with DI H_2O. Use 1ml into 50 mls or 10.0 mls into 500. ex. 4-20-2013

#M10677 12/19/11 GJE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10676) into 100ml = 3.0ug/L Hg
#M10678 12/19/11 GJE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10679 12/19/11 GJE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10676) into 100ml = 0.2ug/L Hg.
#M10680 12/19/11 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10681 12/19/11 GJE	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10682 12/20/11 GJE — GFAA LOD/LOQ Soil Working Std (1% HNO_3)
Expires: 09/09/12

Into a 200 mL vol. flask, partially filled with DI H_2O, pipet the following and bring up to volume with D.I. H_2O.

1.2mL Sb 1000 mg/L (#M10280) = 6,000 µg/L Sb
3.2mL As 1000 mg/L (#M10281) = 16,000 µg/L As
3.2mL Se 1000 mg/L (#M10277) = 16,000 µg/L Se
0.08mL Pb 10,000 mg/L (#M10142) = 4,000 µg/L Pb
1.0mL Tl 1000 mg/L (#M10566) = 5,000 µg/L Tl
0.12mL Ag 1000 mg/L (#M10316) = 600 µg/L Ag

#M10683 12/20/11 GJE — GFAA LOD/LOQ Soil Spiking Solution (1% HNO_3)
Expires: 09/09/12

Into a 1L vol. flask, pipet 10mL of #M10682 and bring up to volume with D.I. H_2O.

#M10684 12/23/11 TSF — Potassium Permanganate: 50g Potassium permanganate (#M9708) dissolved into 1,000mL D.I. H_2O.
Exp: 06/23/12

#M10685 12/23/11 TSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10686 12/23/11 TSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10684 12/23/11 TSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10686) into 100ml = 3.0ug/L Hg
#M10688 12/23/11 TSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10672 12/16/11 3F 3010 LOQ ✓

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	10	M10567	1000	0.5
Sn	10	M10540	1000	0.5
Sr	2	M10569	1000	0.1
Tl	8	M10709	1000	0.4
W	36	M10559	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 09/09/12

#M10673 12/16/11 3F 3010 LOQ ✓

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M10387	10000	2.5
Na	600	M10570	10000	3

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 9/22/12

#M10674 12/16/11 3F 3010 LOQ ✓

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	16	M10775	1000	0.8
Si	200	M9543	1000	10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/12

10675 12/19/11 GG — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

10676 12/19/11 GG — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Into 100ml = 100ug/L Hg

#M10666 12/15/11 GE 3010200 V

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

5% HNO_3
5% HCl

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M10210	1000	0.2
Al	36	M10416	10000	0.18
As	24	M10281	1000	1.2
Ba	1.8	M10143	1000	0.09
Be	0.8	M10568	1000	0.08
Ca	100	M10415	10000	0.5
Cd	2	M10278	1000	0.1
Co	4	M10561	1000	0.2
Cr	4	M10239	10000	0.02
Cu	7	M10149	10000	0.035
Fe	100	M10417	10000	0.5
Mg	40	M10418	10000	0.2
Mn	4	M10141	10000	0.02
Mo	7	M10560	1000	0.35
Ni	6	M10565	1000	0.3
Pb	4	M10142	10000	0.02
Sb	12	M10280	1000	0.6
Se	13	M10277	1000	0.65
Tl	15	M10566	1000	0.75
V	5	M10285	1000	0.25
Zn	10	M10284	10000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 09/09/12

#M10667 12/15/11 GE Potassium 10,000 ± 30 µg/mL CPI Lot No. 11J155 Expires: 06-09-13

#M10668 12/15/11 GE Magnesium 10,000 ± 30 µg/mL CPI Lot No. 11K178 Expires: 06-09-13

#M10669 12/15/11 GE Calcium 10,000 ± 30 µg/mL CPI Lot No. 11K228 Expires: 06-09-13

#M10670 12/15/11 GE Aluminum 10,000 ± 30 µg/mL CPI Lot No. 11J015 Expires: 06-09-13

#M10671 12/15/11 GE Iron 10,000 ± 30 µg/mL CPI Lot No. 11L009 Expires: 06-09-13

#M10663 12/15/11 SF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	14.4	M10547	1000	0.72
Sn	20	M10540	1000	1
Sr	3.2	M10554	1000	0.16
Tl	9.6	M10709	1000	0.48
W	24	M10554	1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 08/12

#M10664 12/15/11 SF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	2640	M10554	10000	13.2
Na	960	M10570	10000	4.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 01/22/13

#M10665 12/15/11 SF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	52	M10739	1000	2.6
Si	192	M9545	1000	9.6

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/12

#M10626 11-21-11 GAE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

~~#M10627 11-21-11 GAE~~ — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10624) into 100ml = 0.2ug/L Hg

~~#M10628 11-21-11 GAE~~ — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)

~~#M10629 11-21-11 GAE~~ — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10630 11-28-11 GAE — GFAA LOD/LOQ Water Spike Working Standard: Into a 100mL vol. flask, partially filled with D.I. H2O, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3)
Exp. 09-09-12
1.5mL Sb (1,000 mg/L) #M10280 = 15,000 µg/L Sb
1.0mL As (1,000 mg/L) #M10281 = 10,000 µg/L As
2.0mL Se (1,000 mg/L) #M10277 = 20,000 µg/L Se
0.045mL Pb (10,000 mg/L) #M10142 = 4500 µg/L Pb
0.4mL Tl (1,000 mg/L) #M10566 = 4000 µg/L Tl
~~1.0mL Ag (1,000 mg/L) #M~~ = 10,000 µg/L Ag
0.1mL Ag (1,000 mg/L) #M10310 = 1,000 µg/L Ag

#M10631 11-28-11 GAE — GFAA LOD/LOQ Water Spiking Solution: Into a 1L vol. flask, pipet 10mL of #M10630 and bring up to volume with D.I. H2O.
(1% HNO3)
Exp. 09-09-12

#M10632 11/29/11 SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10633 11/29/11 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10634 11/29/11 SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10633) into 100ml = 3.0ug/L Hg

#M10635 11/29/11 SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10636 11/29/11 SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10633) into 100ml = 0.2ug/L Hg

#M10637 11/29/11 SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)

#M10638 11/29/11 SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10617
ICSAB, NAK. Into 500 ml Vol flask pipet 50 mls #M10550
11-16-11 15 mls #M10417, 5 mls #M10570 + 5 mls. #M10387.
.5% HCL+HNO3 Bring up to Mark with DI H_2O. ex 10/12

#M10618 Working Standards for Sodium and Potassium; into seven, 200 ml volumetric flasks
11-16-11 pipette from #M10315 and #M10313.
.5% HCL+HNO3

For the 0.5 mg/L std– 0.1 mls of each
1.0 mg/L std – 0.2 mls of each
5.0 mg/L std – 1.0 mls of each
10.0 mg/L std – 2.0 mls of each
50.0 mg/L std - 10.0 mls of each
100 mg/L std -20.0 mls each also used for Continuing Calibration Standard (CCV)
200 mg/L std -40.0 mls of each
Bring up to mark with DI H2O. expires December 2012.

#M10619
11-16-11
.5% mls HNO3+HCl
11-16-11

Initial Calibration Standard (ICV) Into 500 ml volumetric pipette 5 mls of #M10570 and #M10387 and bring up to mark with DI H2O. expires January 2013.

#M10620 ICSAB. List 2. Into 500 ml Vol flask pipet 50 mls
11-16-11 #M10550 15mls M10417 0.2mls of #M10566,
5 mls HNO3+HCl #M10567 #M10567 #M10559 #M10569 Bring up
to Mark with DI H_2O.

#M10621 GK Pd/Mg Matrix Modifier: Into a 50mL vol. flask, pipet 15mL #M10032
11-17-11 and 5mL #M10551. Bring up to volume with
MilliQ H_2O. Exp. 01-06-12

#M10622 Spex Custom Assurance Std Spex CertiPrep lot # 16-19CR.
11-18-11

#M10623 GK Hg Working Stds: (0.2% HNO3, HCl)
11-21-11
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10624 GK Hg Alt Source Working Std: (0.2% HNO3, HCl)
11-21-11
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

10417
DI

#M10625 GK Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10624) into 100ml = 3.0ug/L Hg

#M10608 MRL Working Std.
11-16-11 — pipet from #10607 10 mls into 500ml
.5% HNO3+HCl Vol flask. Bring up to mark with DI H_2O

#M10609
11-16-11
.5% HNO3+HCl

ICAP Working Standards List 2

.5% HNO3 .5%HCL

Standard name — Pipet the following respectively: Into 1 liter.

Standard name	
1	0.01 mls of #M10334 and .001mls #M10559 = 1 ug/L
10	0.10 mls of #M10334 and .01mls #M10559 = 10 ug/L
100	1 mls of #M10334 and 0.1mls #M10559 = 100 ug/L
1000	10 mls of #M10334 and 1.0mls #M10559 = 1000 ug/L
10000	100 mls of #M10334 and 10mls #M10559 = 10000 ug/L ex 6/12

#M10610
11-16-11

Initial Calibration Standard (ICV) List 2
Into 1 liter vol flsk pipet 1 ml of #M10569,M10562,M10567,M10566, and M9930
bring up to mark with DI H2O ex 6/12

#M10611
11-16-11

Continuing Calibration Standard (CCV)
into 1 liter vol flask pipet 10 mls of #M10334 and 1.0mls #M10559 = 1000 ug/L
bring up to mark with DI H20 ex 6-12

#M10612
11-16-11

ICAP Working Standards Boron & Silicon

Standard name — Into 1 liter Pipet the following respectively:

Standard name	
10	0.1 mls of #M10334 and .01mls #M99150 = 10 ug/L
50	0.5 mls of #M10334 and .05mls #M99150 = 50 ug/L
100	1 mls of #M10334 and 0.1mls #M99150 = 100 ug/L
1000	10 mls of #M10334 and 1.0mls #M99150 = 1000 ug/L
10000	100 mls of #M10334 and 10mls #M99150 = 10000 ug/L ex 6/12

#M10613
11-16-11

Initial Calibration Standard (ICV) B, Si
Into 1 liter vol flsk pipet 1 ml of #M10564 & M10575
bring up to mark with DI H2O ex ~~6/12~~ 5/12
11-16-11

#M10614
11-16-11

Continuing Calibration Standard (CCV)
into 1 liter vol flask pipet 10 mls of #M10334 and 1.0mls #M99150 = 1000 ug/L
bring up to mark with DI H20 ex 6-12

#M10615
11-16-11
5% HNO3+HCl

ICSA Into 500 ml vol flask pipet 50mls #M10550 and 15mls #M10477 Bring up to mark with DI H_2O. ex 10/12. ~~+0.5mls #M99150.~~

#M10616
11-16-11
.5% HNO3+HCl

ICSAB. Into 500ml vol flask pipet 50mls #M10550 & 15mls #M10477. 2.5mls #M10334 & 2.5mls M10470. Bring up to mark with H_2O ex 6/12 0.5mls #M99150

M10604
11-16-11
ZA

Continuing Calibration Standard 1(CCV1) .5% HNO_3, 5% HCL

Into a one liter volmetric flask pipet 50mls of # M10334 (ex 6/12)
and 5 ml of #M10310 Ag (ex 12/12), #M10568 Be 4/13) and #M10278 Cd (ex 11/12).
ex.nov 6/12
Bring up to mark with DI H_2O

M10605
11-16-11
ZA

Continuing Calibration Standard 2(CCV2) 5% HNO_3 + HCL

Into a one liter volmetric flask pipet 5 mls of # M10334 (ex 6/12)
and 0.5 ml of #M10310 Ag (ex 12/12), #M10568 Be 4/13) and #M10278 Cd (ex 11/12).
ex.nov 6/12
Bring up to mark with DI H_2O

#M 10606
11-16-11
ZA

Initial Calibration Standard (ICV)
Into one liter volumetric flask pipet 10 mls of M10503 (ex 9/12)
2.0 mls of #m10550 (ex 10/12) and 0.5 mls #M10560 Mo (ex 4/13) and 0.5 mls
of #M10275 B (ex 11/12) bring up to mark with DI H_2O ox 4/12

3: 536)

(# M10326 (a)) in

#M10607
11-16-11
ZA

MRL Std
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

pipet 114ml
#M10538
Mix

5% HNO_3
&
HCL

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	Expiration Date
Ag	10	M10310	1000	0.5	12/08/12
Al	400	M10416	**10000**	2	02/10/13
Ba	10	M10143	1000	0.5	09/09/12
Be	4	M10568	1000	0.2	04/20/13
Cd	5	M10278	1000	0.25	11/25/12
Co	10	M10561	1000	0.5	04/20/13
Cr	10	M10139	**10000**	0.05	09/09/12
Cu	10	M10144	**10000**	0.05	09/09/12
Mg	500	M10418	**10000**	2.5	02/10/13
Mn	10	M10141	**10000**	0.05	09/09/12
Mo	10	M10560	1000	0.5	04/20/13
Ni	10	M10565	1000	0.5	04/20/13
Pb	10	M10142	**10000**	0.05	09/09/12
Sb	20	M10280	1000	1	11/25/12
V	10	M10285	1000	0.5	11/25/12
Zn	10	M10284	**10000**	0.05	11/25/12
K	5000	M10387	**10000**	25	01/22/13
Na	1000	M10570	**10000**	5	04/20/13
As	10	M10281	1000	0.5	11/25/12
Ca	500	M10415	**10000**	2.5	02/10/13
Fe	300	M10417	**10000**	1.5	02/10/13
Se	10	M10277	1000	0.5	11/25/12
Tl	20	M10566	1000	1	04/20/13
Sr	10	M10569	1000	0.5	04/20/13
Ti	10	M10566	1000	0.5	04/20/13
Li	20	M10567	1000	1	04/20/13
Sn	10	M10562	1000	0.5	04/20/13
B	10	M10275	1000	0.5	11/25/12
Si	30	M10564	1000	1.5	04/20/13
W	50	M10559	1000	2.5	04/20/13

= 1000 ug/L std

),

2/13)

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard

Bring up to mark w/ DI H_2O

#M10596 11/11/11 SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10596 11/11/11 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10597 11/11/11 SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 10596) into 100ml = 3.0ug/L Hg

#M10598 11/11/11 SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10599 11/11/11 SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 10596) into 100ml = 0.2ug/L Hg

#M10600 11/11/11 SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)

#M10601 11/11/11 SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride in 76 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10602 11/14/11: TCLP Extraction Fluid #1 Into 20 L Carboy pipet
Glacial Acetic Acid #AB-534, + 128.6 mL
ex 11-14-12 10N NaOH Dilute to 20L with DI H2O and
pH = 4.93 ± .05.

#M10603 11-16-11 DoD Cal Stds

ICAP Working Standards

.5% HNO3 .5%HCL

ex 6/12

Standerd name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10334(ex 6/12) and 1.0 mls of #M10470 (ex 09/12) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M10334(ex 6/12) and 1.0 ml of #M10310 Ag, #M10568 Be,#M10278 Cd and #M10584 Si into 1000 ml volumetric flask= 1000 ug/L
10,000	100 mls #M10334 (ex 6/12),10 mls #M10568 Be (ex 4/13),10 mls #M10278 Cd (ex 11/12)
100k	10 mls of #M10144 Cu (ex 9/12) , 10 mls of #M10141 Mn (ex 9/12) , 10 mls of #M10139 Cr (ex 9/12), 10 mls #M10142 Pb (ex 9/12)
	10 mls #M10284 Zn (ex 11/12) = 100,000 ug/L
100,000	10 mls of #M10418 Mg (ex 02/13) , 10 mls of #M10417 Fe (ex 02/13) ,10 mls of #M10415 Ca (ex 2/13),10 mls #M10416 AL (ex 2/13)
	10 mls #M10570 Na (ex 4/13) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10418 Mg (ex 4/13) , 50 mls of #M10417 Fe (ex 02/13) ,50 mls of #M10415 Ca (ex 2/13), 50 mls #M10416 AL (ex 2/13)
	into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10418 Mg (ex 02/13) , 100 mls of #M10417 Fe (ex 2/13) ,100 mls of #M10415 Ca (ex 2/13),100 mls #M10416 AL (ex 2/13)
	into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M10604 11-16-11 24

#M10605 11-16-11 24

#M10606 11-16-11 24

#M10607 11-16-11 24

#M10608 11-16-11 24

#M10565 10-28-11 Nickel 1000mg/L CPI Lot # HG015 ex 4/13
ZA

#M10566 10-28-11 Thallium 1000 mg/L CPI lot # IIF194 ex 4/13
ZA

#M10567 10-28-11 Lithium 1000mg/L CPI Lot # IIE088 ex 4/13
ZA

#M10568 10-28-11 Beryllium 1000 mg/L CPI Lot #IIF239 ex 4/13
ZA

#M10569 10-28-11 Strontium 1000 mg/L CPI Lot # IID191 4/13
ZA

#M10570 10-28-11 Na 10,000 mg/L CPI Lot # 11103204/13
ZA

#M10571 10-28-11 NaOH Fisher Lot # 112665 ex 10-28-12
ZA

#M10572 Stannous Chloride fisher lot # 113509 ex 10-28-12
ZA 10-28-11

#M10573 10-28-11 Potassium Persulfate Lot # 111346 ex 10-28-12
ZA

#M10574 11/01/11 SF Potassium permanganate: 50g Potassium permanganate (#M9903) dissolved into 1000mL D.I. H2O. Exp: 05/01/12

#M10575 11/01/11 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10576 11/01/11 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10577 11/01/11 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10576) into 100ml = 3.0ug/L Hg
#M10578 11/01/11 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10579 11/01/11 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10576) into 100ml = 0.2ug/L Hg
#M10580 11/07/11 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10591 11/01/11 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10326) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10549 TCLP Extraction fluid #1 Into 20 Liter Carboy, pipet 114 ml
Glacial Acetic Acid (AB: 534) and 128.6 mls 10N. NaOH #M10538
10-26-11 Dilute to 20L with DI H_2O & mix. PH = 4.93 ± 0.05.

43-2AS
#M10550 - IN1-A. Spex Certiprep Lot# ~~1-1617MG2~~ exp Oct 3, 2012
10-26-11 10-26-11

#M10551 Magnesium Nitrate Matrix Modifier Soln. 20,000 mg/L Mg
10-26-11 Spex Certiprep Lot # 1-1699MG2.

#M10552 10/26/11 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10553 10/26/11 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10554 10/26/11 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10553) into 100ml = 3.0ug/L Hg
#M10555 10/26/11 GE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10556 10/26/11 GE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10553) into 100ml = 0.2ug/L Hg
#M10557 10/26/11 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10558 10/26/11 GE	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10559 10-28-11 Tungsten 1000 mg/L CPI Lot# 11E122 exp 4/13
#M10560 10-28-11 Molybdenum 1000 mg/L CPI Lot # 101090 exp 4/13
#M10561 10-28-11 Cobalt 1000 mg/L CPI Lot # 11H211 exp 4/13
#M10562 10-28-11 Tin 1000 mg/L CPI Lot# 11E120 exp 4/13
#M10563 10-28-11 Hg 1000 mg/L CPI Lot# 11J054 exp 4/13
#M10564 10-28-11 Si 1000 mg/L CPI Lot# 11F032 exp 4/13

#M10493 09/23/11 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
4ml L 2.7 H_2O. #M10494 09/23/11 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
up to #M10495 09/23/11 GE 09/23/11 GE #M10497 09/23/11 GE	Hg ICV / LCSW (0.2% HNO3, HCl) Hg CCV (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10494) into 100ml = 3.0ug/L Hg 1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
09/23/11 GE #M10496 09/23/11 GE 09/23/11 GE #M10499 09/23/11 GE 09/23/11 GE #M10498 09/23/11 GE	Hg MRL: (0.2% HNO3, HCl) Hg Aqua Regia Reagent: Stannous Chloride Reagent:	0.2ml of 100ug/L Hg (#M 10494) into 100ml = 0.2ug/L Hg "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536) Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10500 09/23/11 GE — Turbidity Working Standards: Into 20mLs pipet from #M10200 (200 NTU)
Gel Ex Stds. 09/23/11 GE
3.88 — 2.0 mL into 18 mL D.I. H_2O = 20 NTU
50.7 — 10 mL into 10 mL D.I. H_2O = 100 NTU
521 — 20 mL into 0 mL D.I. H_2O = 200 NTU
(Exp. Sep-12)

#M10501 09/26/11 GE — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574(CE)) and 60g Hydroxylamine Sulfate (#M10210) in 500mL M.Q H_2O. Exp. 03-26-12

#M10502 09/28/11 AMA — Potassium Permanganate - 50g Potassium Permanganate (#M9903) dissolved into 1000mL of D.I. H_2O. Exp. 03/28/12

#M10503 9-30-11 — Customer Assurance Std SPex CertiPrep lot #9-84CR ex. Sept 30 2012.

#M10504 A 9-30-11 — (Fisher) Hydroxylamine Sulfate lot # 111789 ex. 9-30-12.

#M10505 10/03/11 AMA — TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10296). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 10/03/12

#M10469 09/07/11 XSPIKE-1-250 Spex CertiPrep Lot No. 4-42YP Exp. 09-15-2012
GLE

#M10470 09/07/11 XCTWI-4-500 Spex CertiPrep Lot No. 4-41YP Exp. 09-15-2012
GLE

#M10471 09/08/11 GFAA LOD/LOQ Water Spiking Sol'n: Into a 1 L vol. flask, pipet 10mL of
GLE (1% HNO_3) #M10286 and 1mL #M10472
Expires 11-15-11

#M10472 09/08/11 GFAA Ag Working Std. Into a 100mL vol. flask, partially filled with D.I.
GLE (1% HNO_3) H_2O, pipet the following and bring up to volume
Exp. 12-08-12 with D.I. H_2O.
1.0mL Ag (1000 mg/L) #M10310 = 10,000 µg/L Ag

#M10473 09/08/11 GFAA LOD/LOQ Soil Spiking Sol'n: Into a 1 L vol. flask, pipet 10mL of
GLE Exp. 11-15-11 #M10289 and 0.6mL #M10472. Bring
(1% HNO_3) up to volume with D.I. H_2O.

#M10474 09/12/11 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10475 09/12/11 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10476 09/12/11 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10475) into 100ml = 3.0ug/L Hg
#M10477 09/12/11 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10478 09/12/11 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10475) into 100ml = 0.2ug/L Hg
#M10479 09/12/11 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10480 09/12/11 AMA	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10481 09/12/11 Hg LOQ/LOD spiking soln (water) - 1.0mL of 1000mg/L Hg (#M9954) into 100mL = 10mg/L Hg
AMA 1.0mL of 10mg/L Hg into 100mL = 100µg/L Hg
5.0mL of 100µg/L Hg into 100mL = 5.0µg/L Hg

#M104661
9-6-11. JA

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standerd 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10334(ex 6/12) and 1.0 mls of #M9816 (ex 8/11) into 1000 ml volumectric flask= 100 ug/L std
~~500~~	~~5.0 mls of #M10334(ex 6/12) and 5.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 500 ug/L std~~ # 9-6-11
1000	10.0 mls of #M10334(ex 6/12) and 1.0 ml of #M10310 Ag,#M9930 Be,#10278 Cd and #M9915 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M10334 (ex 6/12),10 mls #M9930 Be ex (11/15/11),10 mls #M10278 Cd ex 11/25/11
100k	10 mls of #M10144 (Cu) (ex 9/12) , 10 mls of #M10141 (Mn)(ex 9/12) , 10 mls of #M10139 (Cr)(ex 9/12), 10 mls #M10142 (Pb)(ex 9/12) 10 mls #M10284 (Zn)(ex 11/12) = 100,000 ug/L
100,000	10 mls of #M10312 (Mg) (ex 12/12) , 10 mls of #M10417 (Fe) (ex 02/13) ,10 mls of #M10415 (Ca)(ex 2/13),10 mls #M10416 (AL)(ex 2/13 10 mls #M9932 Na ex 11/15/11 into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10312 (Mg) (ex 12/12) , 50 mls of #M10417 (Fe) (ex 02/13) ,50 mls of #M10415 (Ca)(ex 2/13),50 mls #M10416 (AL)(ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10312 (Mg) (ex 12/12) , 100 mls of #M10417 (Fe) (ex 2/13) ,100 mls of #M10415 (Ca)(ex 2/13),100 mls #M10416 (AL)(ex 2/13) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M10462 09/06/11 GE — NaCl Hydroxylamine Sulfate Reagent: Dissolve (eog NaCl (#M9574) and 60g Hydroxylamine Sulfate (#M10210) in 500mL D.I. H2O. Exp: 03/06/12

#M10463 09/06/11 GE — Potassium Persulfate: 50g Potassium Persulfate (#M9814) dissolve in 1000 mL D.I. H2O. Exp: 03/06/12

#M10465 09/07/11 GE — GFAA Base Std (25µg/L) 18% HNO_3 6% HCl — Pipet 5.0mL of 1000µg/L Sb (#M10184) into a 200mL vol. flask and bring up to volume with MilliQ H_2O. Exp. 04-01-12

#M10466 09/07/11 GE — GFAA Alt. Source (10µg/L) 18% HNO_3 6% HCl — Pipet 10mL of 200µg/L Sb (#M10185) into a 200mL vol. flask and bring up to volume with MilliQ H_2O. Exp. 04-01-12.

#M10467 09/07/11 GE — GFAA CCV Std. (10µg/L) 18% HNO_3 6% HCl — Pipet 2mL of 1000µg/L Sb (#M10184) into a 200mL vol. flask and bring up to volume with MilliQ H_2O. Exp 04-01-12

#M10468 09/07/11 GE — GFAA Sb MDL ✓ 18% HNO_3 6% HCl — Pipet 4mL of 10µg/L Sb (#M10467) into a 50mL vol. flask and bring up to volume with MilliQ H_2O. Exp. 04-01-12

#M10418 08/16/11 Mg 10,000 µg/mL, CPI International Lot No. 11G018, Exp. 02-10-13 GAE

#M10419 08/17/11 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20±0.05 with #M10068 GAE

#M10420 08/18/11 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20±0.05 with #M10068 GAE

#M10421 08/21/11 TCLP Extraction Fluid #1: Fill a 20L carboy with 8L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 534) and 128.6mL 10N NaOH (#M10296). Dilute to 20L with D.I. H_2O and mix. pH=4.93±0.05. Exp. 08/21/12 GAE

#M10422 08/22/11 ISE NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g Hydroxylamine Sulfate (#M10210) in 500mL milli-Q H_2O. Exp: 02/22/12 GAE

#M10423 08/22/11 ISE	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10424 08/22/11 ISE	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10425 08/22/11 ISE	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M10424) into 100ml = 3.0ug/L Hg
#M10426 08/22/11 ISE	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10427 08/22/11 ISE	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M10424) into 100ml = 0.2ug/L Hg
#M10428 08/22/11 ISE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO_3 (AB: 533)
#M10429 08/22/11 ISE	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10326(e)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M10430 8/24/11 ISE TCLP Extraction Fluid #1: Fill a 20L carboy with 18L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 534) and 128.6mL 10N NaOH (#M10296). Dilute to 20L with D.I. H_2O and mix. pH=4.93±0.05 8/24/11 ISE

Exp: 08/24/12

#M104045 08/08/11 KF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M104105 02/08/11 KF — Na Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574a) and 60g Hydroxylamine Sulfate (#M9831) in 500mL milli-Q H2O.
Exp: 02/08/12

M104106 8-9-11 ZA — Environmental Express Y 10,000 mg/L Lot# 1104607
ex Feb 2013

#M104107 08/15/11 KF — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M104108 08/15/11 KF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M104109 08/15/11 KF — Hg ICV / LCSW (0.2% HNO3, HCl): 3.0ml of 100ug/L Hg (#M 10408) into 100ml = 3.0ug/L Hg

#M104110 08/15/11 KF — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M104111 08/15/11 KF — Hg MRL: (0.2% HNO3, HCl): 0.2ml of 100ug/L Hg (#M 10408) into 100ml = 0.2ug/L Hg

#M104112 08/15/11 KF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO3 (AB: 533)

#M104113 08/15/11 KF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M104114 08-16-11 GE — Turbidity Working Stds; Into 20mL pipet from #M10200 (200 NTU)

Gel Ex Stds	
3.88	2.0mL into 18mL D.I. H_2O = 20 NTU
50.7	10 mL into 10mL D.I. H_2O = 100 NTU
521	20mL into 0mL D.I. H_2O = 200 NTU

(Exp. Sep-12)

#M104115 08-16-11 GE — Cu 10,000 µg/mL, CPI International Lot No. 11F031, Exp. 02-10-13

#M104116 08-16-11 GE — Al 10,000 µg/mL, CPI International Lot No. 11F262, Exp. 02-10-13

#M104117 08-16-11 GE — Fe 10,000 µg/mL, CPI International Lot No. 11F186, Exp. 02-10-13

#M10379 07/26/11 BF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10380 07/26/11 BF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10381 07/26/11 BF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10380) into 100ml = 3.0ug/L Hg
#M10382 07/26/11 BF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10383 07/26/11 BF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10380) into 100ml = 0.2ug/L Hg
#M10384 07/26/11 BF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO3 (AB: 533)
#M10385 07/26/11 BF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M10386 07/27/11 AMA — TCLP Extraction Fluid #1 – Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-534) and 128.6mL 10N NaOH (#M10043). Dilute to 20L with D.I. H_2O and mix. pH=4.93 ± 0.05. Exp. 07/27/12

#M10387 07/28/11 GLE — 10,000 ±30 µg/mL K. CPI International Lot No. 11G005 Expires: 01-22-13

#M10388 07/29/11 BF — Potassium Permanganate Sol'n: 50g potassium permanganate (#M7903) dissolve into 1,000 mL of D.I. H_2O. Exp: 01/29/12

#M10330 6-22-11 5000ug/L CCV1 Into 1 Liter Vol flask pipet 50mls #M10341
1% HNO3 2x #M10064, 5mls #M9930, 5mls #M10278 filling up to mark with
1% HCL DI H2O. ex 11/11.

#M10331 06/22/11 Stannous Chloride Reagent - Into a 1000 mL vol. flask, dissolve 100g Stannous #M10342
GuE Chloride (#M10326a) in 70 mL HCL (AB-532) AMA
Bring up to volume with D.I. H2O. Exp. 12-22-11

#M10332 6-23-11 working stds List 2. Into 5; One Liter Vol flasks pipet
2x Respectfully
1% HCL
1% HNO3 1mg/L → .01mls M10064 & .001mls M9925 #M10343
10ug/L → .1 mls M10064 & .01mls M9925 AMA
100ug/L → 1mls M10064 & .1mls M9925
also CCV → 1000ug/L → 10mls M10064 & 1mls M9925 #M10344
10,000 ug/L → 100mls M10064 & 10mls M9925 AMA
Bring up to Mark with DI H2O ex 11/11. #M10345
AMA

#M10333 ICV/LCSW List 2 Into 1 Liter Vol flask pipet 5mls 6-23-11
1% HCL 6-23-11 5.0 mls of M9923, M9929, M9926, M10140, M9933. Bring #M10346
1% HNO3 up to Mark with DI H2O ex 11/11 AMA
#M10347
AMA
#M10348
AMA

#M10334 Custom Assurance Std. 100ug/L Spex Lot # 3-61PP.
6-23-11 #M10349

#M10335 06/23/11 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	**Note: ALL Hg standards made up/prepped on 06/22/11. AMA
#M10336 06/23/11 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	
#M10337 06/23/11 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10336) into 100ml = 3.0ug/L Hg	
#M10338 06/23/11 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	
#M10339 06/23/11 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10336) into 100ml = 0.2ug/L Hg	
#M10340 06/23/11 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO3 (AB: 533)	

#M10350 GuE

#M10325 06/16/11 Working standards for Sodium and Potassium: Into 7, 200mL Volumetric flasks, pipet from #M10311 and #M10315.
AMA
2.5% HNO_3
2.5% HCL
- Bring up to mark with D.I. H_2O
- Exp. 12/08/12

for The 0.5mg/L std - 0.1mls each
1.0 mg/L std - 0.2mls each
5.0mg/L std - 1.0mls each
10.0 mg/L std - 2.0mls each
50.0mg/L std - 10.0mls each
100.0 mg/L std - 20mls each, also used for continuing calibration standard (ccv)
200.0 mg/L std - 40.0mls each

#M10326 06-16-11 Tin (II) Chloride Dihydrate Fisher Lot No. 108259
GE

#M10327 06/20/11
AMA
1% HNO_3
1% HCL

MRL Std
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	Expiration Date
Ag	10	M10310	1000	0.5	12/08/12
Al	400	M9866	10000	2	10/15/11
Ba	10	M10143	1000	0.5	09/09/12
Be	4	M9930	1000	0.2	11/15/11
Cd	5	M10278	1000	0.25	11/25/12
Co	10	M9928	1000	0.5	11/15/11
Cr	10	M10139	10000	0.05	09/09/12
Cu	10	M10144	10000	0.05	09/09/12
Mg	500	M10282	10000	2.5	11/25/12
Mn	10	M10141	10000	0.05	09/09/12
Mo	10	M9931	1000	0.5	11/15/11
Ni	10	M9927	1000	0.5	11/15/11
Pb	10	M10142	10000	0.05	09/09/12
Sb	20	M10280	1000	1	11/25/12
V	10	M10285	1000	0.5	11/25/12
Zn	10	M10284	10000	0.05	11/25/12
K	5000	M9863	10000	25	10/15/11
Na	1000	M9932	10000	5	11/15/11
As	10	M10281	1000	0.5	11/25/12
Ca	500	M9865	10000	2.5	10/15/11
Fe	300	M10276	10000	1.5	11/25/12
Se	10	M10277	1000	0.5	11/25/12
Tl	20	M9922	1000	1	11/15/11
Sr	10	M9926	1000	0.5	11/15/11
Ti	10	M9923	1000	0.5	11/15/11
Li	20	M9929	1000	1	11/15/11
Sn	10	M10140	1000	0.5	09/09/12
B	10	M10275	1000	0.5	11/25/12
Si	30	M9956	1000	1.5	11/30/11
W	50	M9924	1000	2.5	11/15/11

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M10328 06/20/11 CCV 2: Jep DoD cal, Into a 1L volumetric flask, pipet 5mLs ~~#M9815~~ #M10064 and
6/20/11 AMA
AMA
1% HNO_3
1% HCL
0.5mL #M9815. Bring up to mark with D.I. H_2O.
Exp. 08/30/11

#M10329 06-22-11 ICSAB. into 500ml vol. flask pipet 50mls of M9955, 25mls #M10064, 2.5mls M9815, 5mls M9545, 0.5mls M9933. Bring up to mark with DI H_2O. ex 8/11.
1% HNO_3
1% HCL

#M10302 06/13/11 3F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10304 06/13/11 5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10305 06/13/11 5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10304) into 100ml = 3.0ug/L Hg
#M10306 06/13/11 5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10307 06/13/11 5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10304) into 100ml = 0.2ug/L Hg
#M10308 06/13/11 5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10309 06/13/11 5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10310 06/15/11 Ag 1000 µg/mL CPI Lot No. 11E160 Exp. 12/08/12
AMA

#M10311 06/15/11 K 1000 µg/mL CPI Lot No. 11D019 Exp. 12/08/12
AMA

#M10312 06/15/11 Mg 10,000 µg/mL CPI Lot No. 11B221 Exp. 12/08/12
AMA

#M10313 06/15/11 K 1000 µg/mL CPI Lot No. 11D019 Exp. 12/08/12
AMA

#M10314 06/15/11 Fe 10,000 µg/mL CPI Lot No. 11C277 Exp. 12/08/12
AMA

#M10315 06/15/11 Na 1000 µg/mL CPI Lot No. 11C114 Exp. 12/08/12
AMA

#M10316 06/15/11 Na 1000 µg/mL CPI Lot No. 11C114 Exp. 12/08/12
AMA

#M10317 c
AMA

#M10318 c
AMA

#M10319 c
AMA

#M10320 c
AMA

#M10283 06/03/11 Na 1,000 µg/mL CPI Lot No. 11C114 Exp. 11/25/12
AMA

#M10284 06/03/11 Zn 10,000 µg/mL CPI Lot No. 11D067 Exp. 11/25/12
AMA

#M10285 06/03/11 V 1,000 µg/mL CPI Lot No. 11B146 Exp. 11/25/12
AMA

#M10286 06/07/11 GFAA LOD/LOQ Water Working Std: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GJE (1% HNO_3)
Expires: 11-15-11
1.5 mL Sb (1000 mg/L) #M10280 = 15,000 µg/L Sb
1.0 mL As (1,000 mg/L) #M10281 = 10,000 µg/L As
2.0 mL Se (1,000 mg/L) #M10277 = 20,000 µg/L Se
0.045 mL Pb (10,000 mg/L) #M10142 = 4,500 µg/L Pb
0.4 mL Tl (1,000 mg/L) #M9922 = 4,000 µg/L Tl

#M10287 06/07/11 GFAA LOD/LOQ Water Ag Working Std: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GJE (1% HNO_3)
Expires: 06-15-11
1.0 mL Ag (1,000 mg/L) #M9608 = 10,000 µg/L Ag

#M10288 06/07/11 GFAA LOD/LOQ Water Spiking Sol'n: Into a 1 L vol. flask, pipet 10 mL of #M10286 and 1 mL #M10287.
GJE (1% HNO_3)
Expires: 06-15-11 (Ag only)

#M10289 06/07/11 GFAA LOD/LOQ Soil Working Std: Into a 200 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GJE (1% HNO_3)
Expires: 11-15-11
1.2 mL Sb (1000 mg/L) #M10280 = 6,000 µg/L Sb
3.2 mL As (1000 mg/L) #M10281 = 16,000 µg/L As
3.2 mL Se (1,000 mg/L) #M10277 = 16,000 µg/L Se
0.08 mL Pb (10,000 mg/L) #M10142 = 4,000 µg/L Pb
1.0 mL Tl (1,000 mg/L) #M9922 = 5,000 µg/L Tl

#M10290 06/07/11 GFAA LOD/LOQ Soil Ag Working Std: Into a 200 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GJE (1% HNO_3)
Expires: 06-15-11
1.2 mL Ag (1000 mg/L) #M9608 = 6,000 µg/L Ag

#M10291 06/07/11 GFAA LOD/LOQ Soil Spiking Sol'n: Into a 1 L vol. flask, pipet 10 mL of #M10289 and 1 mL #M10290. Bring up to volume with D.I. H_2O.
GJE Expires: 06-15-11 (Ag only)
(1% HNO_3)

#M10269 05/27/11 Hg Aqua Regia Reagent: "carefully" in hood, mix 3 parts HCL (AB:532) with 1 part HNO_3 (AB:533).
AMA

#M10270 05/27/11 Stannous chloride Reagent: Into a 1000mL volumetric flask, dissolve 100g Stannous chloride (#M9785F) in 70mL HCL (AB:532). Bring up to volume with D.I. H_2O.
AMA

#M10271 05/27/11 GF Potassium Persulfate: 50g potassium persulfate (#M9897) dissolved into 1000mL D.I. H_2O Exp: 10-27-11

#M10272 05/31/11 SF Potassium Permanganate sol'n: 50g potassium permanganate (#M9903) dissolved into 1000mL of D.I. H_2O. Exp: 11/31/11

#M10273 06/03/11 AMCO clear Turbidity standard 2.0 NTU Lot NO. C141288 Expires 05/2012
AMA

#M10274 06/03/11 Custom Assurance Standard 20,000mg/L Ca, 10,000mg/L Mg, Na SPEX certiPrep Lot NO. 3-30YP Exp. 05/30/2012
AMA

#M10275 06/03/11 B 1,000µg/mL CPI Lot NO. 11C049 Exp. 11/25/12
AMA

#M10276 06/03/11 Fe 10,000µg/mL CPI Lot NO. 11C277 Exp. 11/25/12
AMA

#M10277 06/03/11 Se 1,000µg/mL CPI Lot NO. 10L065 Exp. 11/25/12
AMA

#M10278 06/03/11 Cd 1,000µg/mL CPI Lot NO. 11B116 Exp. 11/25/12
AMA

#M10279 06/03/11 K 1,000µg/mL CPI Lot NO. 11D019 Exp. 11/25/12
AMA

#M10280 06/03/11 Sb 1,000µg/mL CPI Lot NO. 10K242 Exp. 11/25/12
AMA

#M10281 06/03/11 As 1,000µg/mL CPI Lot NO. 11E058 Exp. 11/25/12
AMA

#M10282 06/03/11 Mg 10,000µg/mL CPI Lot NO. 11B035 Exp. 11/25/12
AMA

#M10283 06/
AMA

#M10284 06/0
AMA

#M10285 06/0
AMA

#M10286 06/0
GVE

#M10287 06/
GVE

#M10288 0
GVE

#M10289 06/0
GVE

#M10290 0
GVE

#M10291 0
GVE

Page 2024

#M10240 05/10/11 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial
GVE Exp. 05-10-12 Acetic Acid (AB-516) and 128.6mL 10N NaOH (#M10043).
Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

#M10241 05/11/11 Stannous Chloride, Ricca Chemical Company Lot No. 1104175
GVE Exp. April 2013

#M10242 05/13/11 Potassium Persulfate: 50g Potassium persulfate (#M9814) dissolved into
L3F 1000mL D.I. H_2O.
Exp. 11/13/11

#M10243 05/13/11 L3F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10244 05/13/11 L3F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10245 05/13/11 L3F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10244) into 100ml = 3.0ug/L Hg
#M10246 05/13/11 L3F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10247 05/13/11 L3F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10244) into 100ml = 0.2ug/L Hg
#M10248 05/13/11 L3F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10249 05/13/11 L3F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10250 05/16/11 Potassium Permanganate soln – 50g Potassium Permanganate (#M9903)
AmA dissolved into 1000mL D.I. H_2O. Exp. 11/16/11

#M10251 05/16/11 NaCl Hydroxylamine Sulfate Reagent – Dissolve 60g NaCl (#M9574b) and
AmA 60g Hydroxylamine Sulfate (#M10210)
in 500mL Milli-Q H_2O. Exp. 11/16/11

#M10252 05/18/11 TCLP Extraction fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial
AmA Acetic Acid (AB-534) and 128.6mL 10N NaOH (#M10043).
Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Page 2025

#M10225 05/02/11 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10226 05/02/11 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10227 05/02/11 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10226) into 100ml = 3.0ug/L Hg
#M10228 05/02/11 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10229 05/02/11 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10226) into 100ml = 0.2ug/L Hg
#M10230 05/02/11 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10231 05/02/11 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10232 05/06/11 : Custom Assurance Standard 20,000 mg/L Ca, 10000 mg/L Mg, Na
GAE Spex CertiPrep Lot No. 2-176YP Exp. 04-30-12

#M10233 05/09/11 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10234 05/09/11 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10235 05/09/11 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10234) into 100ml = 3.0ug/L Hg
#M10236 05/09/11 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10237 05/09/11 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10234) into 100ml = 0.2ug/L Hg
#M10238 05/09/11 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10239 05/09/11 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10196 04/12/11 AmA — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 524) with 1part HNO3 (AB: 527)

#M10197 04/12/11 AmA — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785D) in 70 mL HCl (AB: 524). Bring up to volume with D.I. Water. C 04/12/11 AmA

#M10198 04/12/11 AmA — Potassium Permanganate soln – 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 10/12/11

#M10199 04/12/11 AmA — NaCl Hydroxylamine Sulfate ~~Soln~~ 04/12/11 AmA Reagent – Dissolve 60g NaCl (#M9574(A)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 10/12/11

#M10200 04/13/11 GAE — Hach StablCal Std 200 NTU Lot No. A0260 Exp. Sep-12

#M10201 04/13/11 GAE — Turbidity Working Stds: Into 20 mL's pipet from #M10200 (200 NTU)

Gel Ex Stds:

4.31	2.0mL into 18mL D.I. H_2O = 20 NTU
51.1	10mL into 10mL D.I. H_2O = 100 NTU
522	20mL into 0mL D.I. H_2O = 200 NTU
	(Exp. Sep-12)

#M10202 04/14/11 GAE — TCLP Extraction Fluid #1: Fill a 20 L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-516) and 128.6mL 10N NaOH (#M10043), Dilute to 20L with D.I. H_2O & mix, pH = 4.93 ± 0.05 Exp. 04/14/12

#M10131 03/14/11 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10132 03/14/11 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10133 03/14/11 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10132) into 100ml = 3.0ug/L Hg
#M10134 03/14/11 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10135 03/14/11 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10132) into 100ml = 0.2ug/L Hg
#M10136 03/14/11 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 521) with 1part HNO3 (AB: 525)
#M10137 03/14/11 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785D) in 70 mL (AB-521). Bring up to volume with D.I. Water.

#M10138 3-17-11 ICV/LCSW (DOD cal) Ondo 1 Liter vol flask. pipet 1oml of #M10065, 3ml of #M9955, 0.5ml of #M9931 Bring up to mark with DI H_2O. ex NOV 2011.

#M10139 03/21/11 Cr 10,000 µg/mL CPI Lot No. 10E013 Exp. 09-09-12 GE

#M10140 03/21/11 Sn 1,000 µg/mL CPI Lot No. 10K034 Exp. 09-09-12 GE

#M10141 03/21/11 Mn 10,000 µg/mL CPI Lot No. 11A002 Exp. 09-09-12 GE

#M10142 03/21/11 Pb 10,000 µg/mL CPI Lot No. 10D176 Exp. 09-09-12 GE

#M10143 03/21/11 Ba 1,000 µg/mL CPI Lot No. 11B128 Exp. 09-09-12 GE

#M10144 03/21/11 Cu 10,000 µg/mL CPI Lot No. 10F007 Exp. 09-09-12 GE

#M9930 11/23/10 Be 1000 mg/L Spex CertiPrep Lot No. 15-127BE Exp. 11-15-11
GvE

#M9931 11/23/10 Mo 1000 mg/L Spex CertiPrep Lot No. 15-110MO Exp. 11-15-11
GvE

#M9932 11/23/10 Na 10,000 mg/L Spex CertiPrep Lot No. AE12-119NA Exp. 11-15-11
GvE

#M9933 11/23/10 W 1000 µg/mL SCP Science Lot No. SC0301406 Exp. 08/2012
GvE

#M9934 11/28/10 Spike Sample Standard 1 Lot No. 42-80As Exp. 11-15-11
GvE

#M9935 11/23/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9936 11/23/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9937 11/23/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9936) into 100ml = 3.0ug/L Hg
#M9938 11/23/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9939 11/23/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9936) into 100ml = 0.2ug/L Hg
#M9940 11/23/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

#M9941 11/23/10 AmA NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574(1)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 05/23/11

#9942 11/24/10 GvE Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785b) in 70mL HCl (AB.514). Bring up to volume with DI H_2O. Exp. 11-24-11

#M9943

#M9944 Gv

#M9945 11 GvE

#M9946 GvE

#M9947 GvE

#M9948 11 GvE

#M9949 11 GvE

#M9950 GvE 11/23/10 GvE

#M9951 Tc

#M9952 TCl

#M9953 TCN 01/01/10 GvE

#M9062 GLE 07/11/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7-12 ~~Portland Cal~~

#M9063 GLE Mercury Standard (1mg/mL) in 10% HNO_3. ACROS Organics Lot No. A0254552 Exp. 07/28/14

190064 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

190065 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

#M9066 GLE 07/14/09 Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 01/14/10

19067 GLE 07/14/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
19068 GLE 07/14/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
19069 GLE 07/14/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9068) into 100ml = 3.0ug/L Hg
19070 GLE 07/14/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9068) into 100ml = 0.2ug/L Hg
19071 GLE 7/14/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)
19072 GLE 07/14/09	Hg Water MDL ✓ (0.2% HNO_3, HCl)	0.04mL of 100 µg/L Hg (#M9068) into 100mL = 0.04 µg/L Hg
M9073 GLE 07/14/09	Hg LOQ ✓ Water (0.2% HNO_3, HCl)	0.13mL of 100 µg/L Hg (#M9068) into 100mL = 0.13 µg/L Hg
#M9074 GLE 07/14/09	Soil Hg MDL ✓	0.03mL of 100 µg/L Hg (#M9068) into 100mL = 0.03 µg/L Hg

#M9075 GLE Soil Hg 07/14/09

#M9076 AMA 07/20/09 Hg (0.2

#M9077 AMA 07/20/09 Hg (0.2

#M9078 AMA 7/20/09 Hg (0.2

#M9079 AMA 7/20/09 Hg

#M9080 AMA 7/20/09 Hg

#M9081 AMA 7/20/09 NaCl Hyd

#M9082 GLE 07/20/09 Sodium C

#M9083 GLE 07/20/09 Tin (II) Ch

#M9084 AMA 07/21/09 Potassium

#M9085 AMA 7/21/09 TCLP Extrac Exp. 7

#M9086 AMA 7/21/09 10N NaOH

#M9087 AMA 7/21/09 TCLP Extra Exp. 7/21

INORGANIC
CLP FORMS
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339579
Analytical Method:	ASTM D4978	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96823	Analysis Date/Time	08/17/2013 11:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18496-25-8	Sulfide Reactive	2.0	U	2.0	2	2	2

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339579
Analytical Method:	ASTM D5049	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96821	Analysis Date/Time	08/17/2013 11:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
57-12-5	Cyanide, Reactive	10	U	10	10	10	10

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339579
Analytical Method:	EPA 1010	Date Received:	08/16/2013
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96995	Analysis Date/Time	08/22/2013 11:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	Deg. F

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
FLASHPT	Flashpoint	>140.0					

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339579
Analytical Method:	EPA 9040C	Date Received:	08/16/2013
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96888	Analysis Date/Time	08/16/2013 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	8.88					

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	SOIL	SDG No.:	99335
% Solids:	84.8	Lab Sample ID:	339568
Analytical Method:	ASTM D4978	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96823	Analysis Date/Time	08/17/2013 11:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18496-25-8	Sulfide Reactive	120	U	120	120	120	120

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	SOIL	SDG No.:	99335
% Solids:	84.8	Lab Sample ID:	339568
Analytical Method:	ASTM D5049	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96821	Analysis Date/Time	08/17/2013 11:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
57-12-5	Cyanide, Reactive	24	U	24	24	24	24

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	SOIL	SDG No.:	99335
% Solids:	84.8	Lab Sample ID:	339568
Analytical Method:	EPA 1010	Date Received:	08/16/2013
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96996	Analysis Date/Time	08/22/2013 11:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	Deg. F

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
FLASHPT	Flashpoint	>140.0					

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	SOIL	SDG No.:	99335
% Solids:	84.8	Lab Sample ID:	339568
Analytical Method:	EPA 9056A	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96963	Analysis Date/Time	08/21/2013 12:46
Analytical Prep Batch #:	45550	Prep. Date/Time:	08/21/2013 10:00
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
14797-55-8	Nitrate Nitrogen	3.1	J	Y	0.94	2.4	4.7	4.7
14797-65-0	Nitrite Nitrogen	1.1	U		1.1	2.4	4.7	4.7

CT LABORATORIES
delivering more than data from your environmental analyses

1

Sample Description

083SB-0022-0001-IDW

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	SOIL	SDG No.:	99335
% Solids:	84.8	Lab Sample ID:	339568
Analytical Method:	EPA 8000C	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96911	Analysis Date/Time	08/20/2013 14:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.8		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	SOIL	SDG No.:	99335
% Solids:	84.8	Lab Sample ID:	339568
Analytical Method:	EPA 9045D	Date Received:	08/16/2013
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	96888	Analysis Date/Time	08/16/2013 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	7.74					

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

083SB-0023-0001-ER

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix (soil/water):	GROUND WATER	SDG No.:	99335
% Solids:		Lab Sample ID:	339561
Analytical Method:	EPA 9056M	Date Received:	08/16/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	97019	Analysis Date/Time	08/25/2013 21:16
Analytical Prep Batch #:	45578	Prep. Date/Time:	08/20/2013 09:00
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	0.43	U	0.43	0.53	1.1	1.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 346241

ICAL Calibration #: Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrocellulose	8/16/13	19:52	7.000	6.695	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

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

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96963 Lab Sample ID: 346864

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrate Nitrogen	8/16/13	19:52	3.500	3.325	95	90	110
Nitrite Nitrogen	8/16/13	19:52	3.500	3.370	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

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

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96963 Lab Sample ID: 341584

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrate Nitrogen	8/21/13	11:34	3.500	3.395	97	90	110
Nitrite Nitrogen	8/21/13	11:34	3.500	3.699	106	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

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

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96963 Lab Sample ID: 341586

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrate Nitrogen	8/21/13	14:12	3.500	3.362	96	90	110
Nitrite Nitrogen	8/21/13	14:12	3.500	3.655	104	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

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

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 346231

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrocellulose	8/25/13 19:47	7.000	6.740	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

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

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 346232

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrocellulose	8/25/13	22:45	7.000	6.803	97	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

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

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 346228

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrocellulose	8/25/13 20:58	1.05	1.12	107	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 346229

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Nitrocellulose	8/25/13	21:33	1.05	1.09	104	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 346242

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Nitrocellulose	08/16/2013 20:09	0			0.28

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96963 Lab Sample ID: 346865

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Nitrate Nitrogen	08/16/2013 20:09	0			0.2
Nitrite Nitrogen	08/16/2013 20:09	0			0.2

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96963 Lab Sample ID: 341587

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Nitrate Nitrogen	08/21/2013 14:29	0			0.2
Nitrite Nitrogen	08/21/2013 14:29	0			0.2

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 346233

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Nitrocellulose	08/25/2013 23:02	0			0.28

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96821 Lab Sample ID: 339665

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Cyanide, Reactive	08/17/2013 11:00	0	U	10	4

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96821 Lab Sample ID: 339667

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Cyanide, Reactive	08/17/2013 11:00	0.00	U	20	8

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96823 Lab Sample ID: 339673

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Sulfide Reactive	08/17/2013 11:00	0.00			100

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96823 Lab Sample ID: 339675

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Sulfide Reactive	08/17/2013 11:00	0	U	2	2

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 96963 Lab Sample ID: 340600

Analytical Prep Batch # 45550 Preparation Date/Time: 08/21/2013 10:00

ICAL Calibration #: Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Nitrate Nitrogen	08/21/2013 12:29	0	U	0.8	2.0
Nitrite Nitrogen	08/21/2013 12:29	0	U	0.9	2.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: ECC-RVAAP

SDG No.: 99335

Analytical Run #: 97019 Lab Sample ID: 342393

Analytical Prep Batch # 45578 Preparation Date/Time: 08/20/2013 09:00

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Nitrocellulose	08/25/2013 20:40	0	U	0.4	0.5

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	SOLID	SDG No.:	99335
% Solids for Sample:	84.8	Concentration Units:	mg/kg
Sample No	339669	Parent Sample No.:	339568
Analytical Prep Batch #		Analytical Preparation Date/Time:	
Analytical Run #:	96821	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/17/2013 Analysis Time: -------- 11:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Cyanide, Reactive	70-130	20.0	J	BDL	U	20.0	100		

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	mg/L
Sample No	339671	Parent Sample No.:	339579
Analytical Prep Batch #		Analytical Preparation Date/Time:	
Analytical Run #:	96821	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	08/17/2013	Analysis Time: --------	11:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Cyanide, Reactive	70-130	10.0	J	BDL	U	10.0	100		

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	SOLID	SDG No.:	99335
% Solids for Sample:	84.8	Concentration Units:	mg/kg
Sample No	339677	Parent Sample No.:	339568
Analytical Prep Batch #		Analytical Preparation Date/Time:	
Analytical Run #:	96823	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	08/17/2013	Analysis Time: --------	11:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Sulfide Reactive	70-130	100	J	BDL	U	100	100		

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0021-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	LIQUID	SDG No.:	99335
% Solids for Sample:		Concentration Units:	mg/L
Sample No	339679	Parent Sample No.:	339579
Analytical Prep Batch #		Analytical Preparation Date/Time:	
Analytical Run #:	96823	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	08/17/2013	Analysis Time: --------	11:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Sulfide Reactive	70-130	2.00	J	BDL	U	2.00	100		

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	SOLID	SDG No.:	99335
% Solids for Sample:	84.8	Concentration Units:	mg/kg
Sample No	340603	Parent Sample No.:	339568
Analytical Prep Batch #	45550	Analytical Preparation Date/Time:	08/21/2013 10:00
Analytical Run #:	96963	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/21/2013 Analysis Time: -------- 13:36

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Nitrate Nitrogen	80-120	23.1		3.1	J	23.6	85		IC
Nitrite Nitrogen	80-120	22.4		BDL	U	23.6	95		IC

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

083SB-0022-0001-IDW

Lab Name:	CT Laboratories	Contract:	ECC-RVAAP
Matrix:	SOLID	SDG No.:	99335
% Solids for Sample:	84.8	Concentration Units:	mg/kg
Sample No	340604	Parent Sample No.:	340603
Analytical Prep Batch #	45550	Analytical Preparation Date/Time:	08/21/2013 10:00
Analytical Run #:	96963	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 08/21/2013 Analysis Time: -------- 13:54

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Nitrate Nitrogen	80-120	23.1		3.1	J	23.5	85		IC
Nitrite Nitrogen	80-120	22.4		BDL	U	23.5	95		IC

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: SOLID
SDG No.: 99335
% Solid for Sample: 84.8
Concentration Units: mg/kg
Analytical Prep Batch # 1
Analytical Preparation Date/Time
Analytical Run #: 96821
ICAL Calibration #:
Sample #: 339668
Parent Sample #: 339568

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Cyanide, Reactive	08/17/2013	11:00	20	24	U	24	U	0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch # 1
Analytical Preparation Date/Time
Analytical Run #: 96821
ICAL Calibration #:
Sample #: 339670
Parent Sample #: 339579

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Cyanide, Reactive	08/17/2013	11:00	20	10	U	10	U	0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: SOLID
SDG No.: 99335
% Solid for Sample: 84.8
Concentration Units: mg/kg
Analytical Prep Batch #: 1
Analytical Preparation Date/Time:
Analytical Run #: 96823
ICAL Calibration #:
Sample #: 339676
Parent Sample #: 339568

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Sulfide Reactive	08/17/2013	11:00	20	120	U	120	U	0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch # 1
Analytical Preparation Date/Time
Analytical Run #: 96823
ICAL Calibration #:
Sample #: 339678
Parent Sample #: 339579

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Sulfide Reactive	08/17/2013	11:00	20	2.0	U	2.0	U	0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: SOLID
SDG No.: 99335
% Solid for Sample: 84.8
Concentration Units: S.U.
Analytical Prep Batch #: 1
Analytical Preparation Date/Time:
Analytical Run #: 96888
ICAL Calibration #:
Sample #: 340057
Parent Sample #: 339568

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
pH	08/16/2013	14:20	1	7.74		7.74		0		ELEC

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: S.U.

Analytical Prep Batch # 1
Analytical Preparation Date/Time
Analytical Run #: 96888
ICAL Calibration #:
Sample #: 340058
Parent Sample #: 339579

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
pH	08/16/2013	14:20	1	8.88		8.88		0		ELEC

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: SOLID
SDG No.: 99335
% Solid for Sample: 84.8
Concentration Units: %
Analytical Prep Batch # 1
Analytical Preparation Date/Time 0
Analytical Run #: 96911
ICAL Calibration #:
Sample #: 340972
Parent Sample #: 339568

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	08/20/2013	14:00	8	84.8		85.4		1		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0021-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: LIQUID
SDG No.: 99335
% Solid for Sample:
Concentration Units: Deg. F
Analytical Prep Batch # 1
Analytical Preparation Date/Time
Analytical Run #: 96995
ICAL Calibration #:
Sample #: 342338
Parent Sample #: 339579

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Flashpoint	08/22/2013	11:00	5	>140.0		>140.0		0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: SOLID
SDG No.: 99335
% Solid for Sample: 84.8
Concentration Units: Deg. F
Analytical Prep Batch # 1
Analytical Preparation Date/Time
Analytical Run #: 96996
ICAL Calibration #:
Sample #: 342340
Parent Sample #: 339568

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Flashpoint	08/22/2013	11:00	5	>140.0		>140.0		0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories
Contract: ECC-RVAAP
Matrix: SOLID
SDG No.: 99335
% Solid for Sample: 84.8
Concentration Units: mg/kg
Analytical Prep Batch # 1
Analytical Preparation Date/Time 45550
Analytical Run #: 96963
ICAL Calibration #:
Sample #: 340602
Parent Sample #: 339568

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Nitrate Nitrogen	08/21/2013	13:18	10	3.1	J	3.45	J	11		IC	*FAIL*
Nitrite Nitrogen	08/21/2013	13:18	10	1.1	U	1.1	U	0		IC	

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description

083SB-0022-0001-IDW

Lab Name: CT Laboratories | Contract: ECC-RVAAP

Matrix: SOLID | SDG No.: 99335

% Solid for Sample: 84.8 | Concentration Units: mg/kg

Analytical Prep Batch #: 45550 | Analytical Preparation Date/Time: 08/21/2013 10:00

Analytical Run #: 96963 | ICAL Calibration #:

Sample #: 340604 | Parent Sample #: 340603

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Nitrate Nitrogen	08/21/2013	13:54	15	23.1		23.1		0		IC
Nitrite Nitrogen	08/21/2013	13:54	15	22.4		22.4		0		IC

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/L

Analytical Run #: 96821 Sample No.:#: 339664

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Cyanide, Reactive	08/17/2013 11:00	70-130	10.0		10.0	100		

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/L

Analytical Run #: 96823 Sample No.:#: 339674

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Sulfide Reactive	08/17/2013 11:00	70-130	2.00		2.00	100		

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: Deg. F

Analytical Run #: 96995 Sample No.:#: 342339

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Flashpoint	08/22/2013 11:00	90-110	80.2		79.8	101		

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/L

Analytical Run #: 97019 Sample No.:#: 342394

Analytical Prep Batch #: 45578 Preparation Date/Time: 08/20/2013 09:00

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Nitrocellulose	08/25/2013 20:22	70-130	5.22		5.27	99		IC

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/kg

Analytical Run #: 96821 Sample No.:#: 339666

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Cyanide, Reactive	08/17/2013 11:00	70-130	20.0		20.0	100		

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/kg

Analytical Run #: 96823 Sample No.:#: 339672

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Sulfide Reactive	08/17/2013 11:00	70-130	100		100	100		

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: Deg. F

Analytical Run #: 96996 Sample No.:#: 342341

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Flashpoint	08/22/2013 11:00	90-110	81.2		79.8	102		

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LCS

LABORATORY CONTROL SAMPLE - SOLID

Lab Name: CT Laboratories Contract ECC-RVAAP

LCS Source: SPEX and Ultra SDG No.: 99335

Concentration Units: mg/kg

Analytical Run #: 96963 Sample No.:#: 340601

Analytical Prep Batch #: 45550 Preparation Date/Time: 08/21/2013 10:00

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Nitrate Nitrogen	08/21/2013 12:11	80-120	33.6		35.0	96		IC
Nitrite Nitrogen	08/21/2013 12:11	80-120	38.2		35.0	109		IC

INORGANICS
RAW DATA
DOCUMENTS

Schedule File: C:\Instrument Archives\Sequences\System 2\081613B.sch

Line	Sample	Sample Type	Level	Method
26	LEVEL 1	Calibration St	1	w32289.met
27	LEVEL 2	Calibration St	2	w32289.met
28	LEVEL 3	Calibration St	3	w32289.met
29	LEVEL 4	Calibration St	4	w32289.met
30	LEVEL 5	Calibration St	5	w32289.met
31	LEVEL 6	Calibration St	6	w32289.met
32	LEVEL 7	Calibration St	7	w32289.met
33	LEVEL 8	Calibration St	8	w32289.met
34	ICV	Sample		w32289.met
35	ICB	Sample		w32289.met

Calibration Update Report

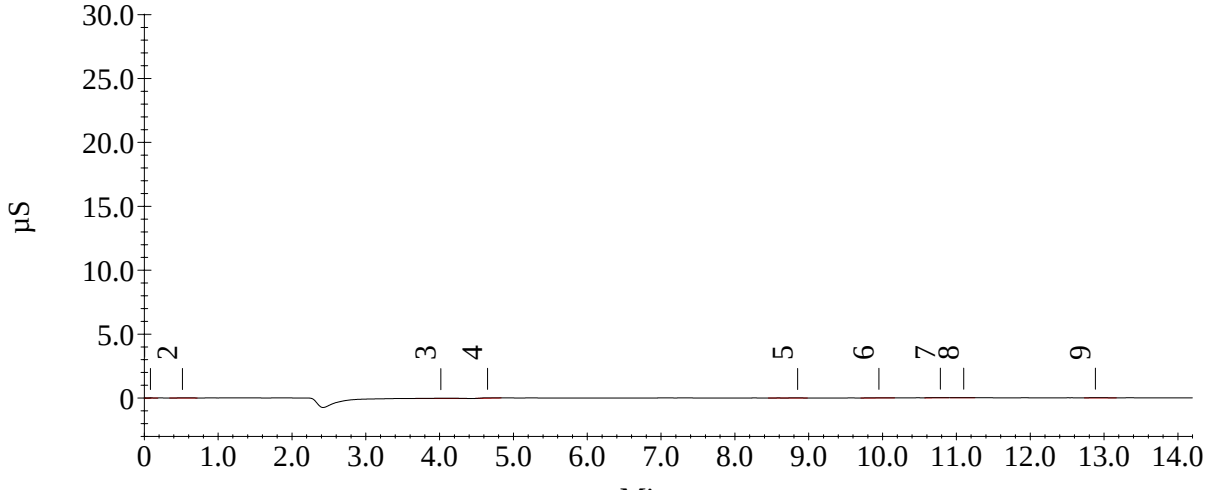
Sample Name : LEVEL 1
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 1_026.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 17:41:16
Calibration Date : 08/16/2013 17:55:29
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Chloride	4.65	0	3520	3520
6	O.Phos	9.95	0	1007	1007
9	Sulfate	12.88	0	1088	1088

LEVEL 1



Calibration Update Report

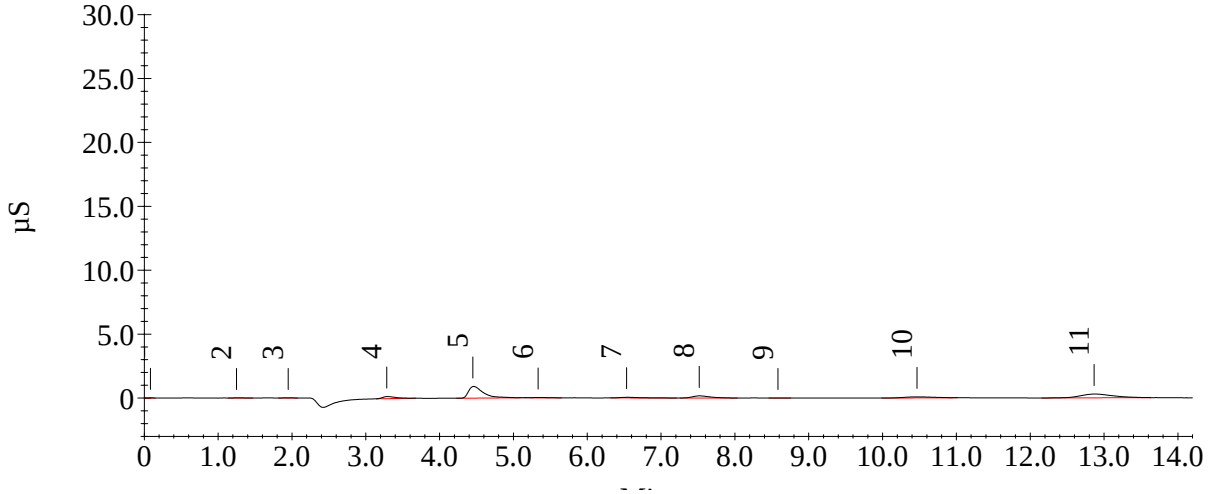
Sample Name : LEVEL 2
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 2_027.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 17:57:41
Calibration Date : 08/16/2013 18:11:55
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.28	0	20872	212674
5	Chloride	4.45	0	128360	128360
6	Nitrite	5.33	0	3132	3132
7	Bromide	6.53	0	9771	9771
8	Nitrate	7.52	0	28115	28115
10	O.Phos	10.47	0	24261	24261
11	Sulfate	12.87	0	90921	90921

LEVEL 2



Calibration Update Report

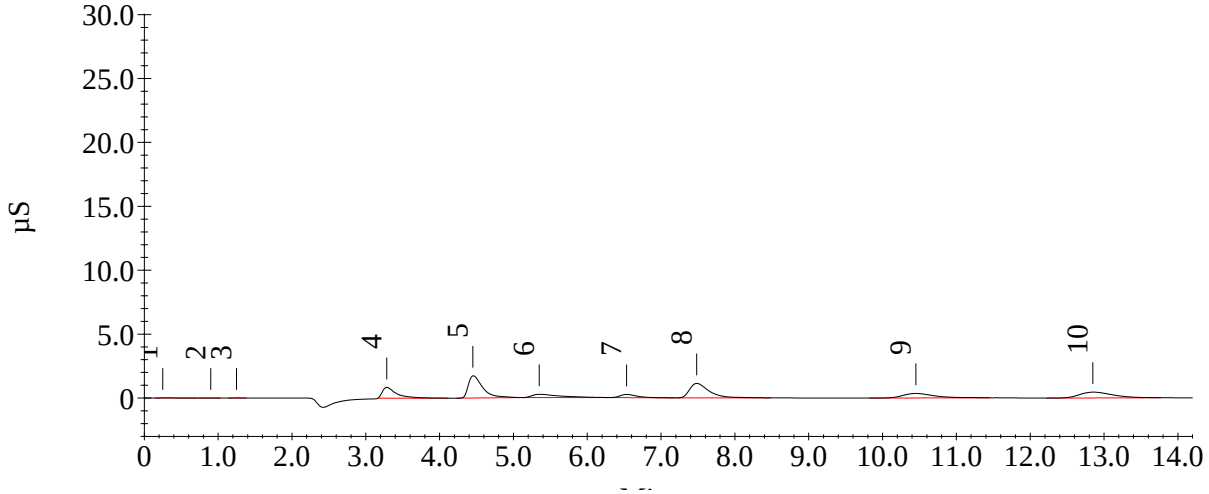
Sample Name : LEVEL 3
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 3_028.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 18:14:08
Calibration Date : 08/16/2013 18:28:22
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.28	0	113837	113837
5	Chloride	4.45	0	235018	235018
6	Nitrite	5.35	0	68268	68268
7	Bromide	6.53	0	39760	39760
8	Nitrate	7.48	0	209777	209777
9	O.Phos	10.45	0	103761	103761
10	Sulfate	12.85	0	143043	143043

LEVEL 3



Calibration Update Report

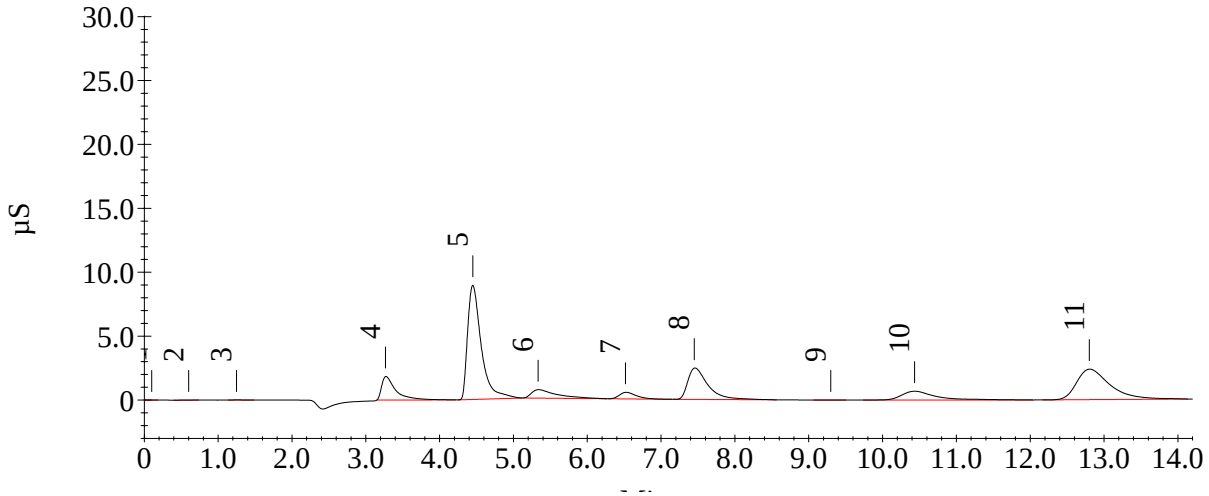
Sample Name : LEVEL 4
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 4_029.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 18:30:35
Calibration Date : 08/16/2013 18:44:48
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.27	0	246157	246157
5	Chloride	4.45	0	1149655	1149655
6	Nitrite	5.33	0	157083	157083
7	Bromide	6.52	0	82469	82469
8	Nitrate	7.45	0	464915	464915
10	O.Phos	10.43	0	222874	222874
11	Sulfate	12.80	0	749657	749657

LEVEL 4



Calibration Update Report

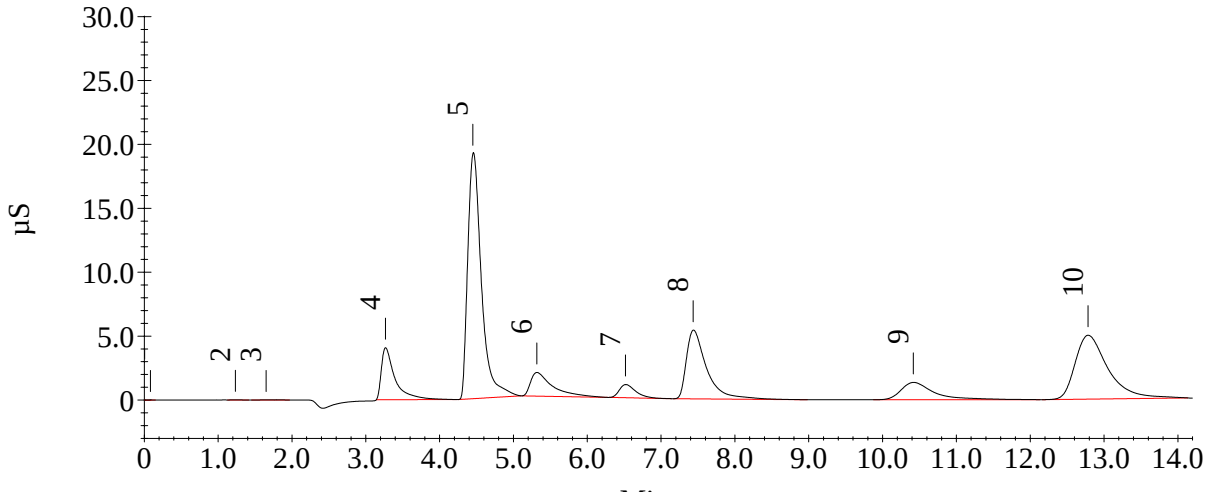
Sample Name : LEVEL 5
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 5_030.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 18:47:01
Calibration Date : 08/16/2013 19:01:14
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.27	0	521129	521129
5	Chloride	4.45	0	2463474	2463474
6	Nitrite	5.32	0	382835	382835
7	Bromide	6.52	0	159460	159460
8	Nitrate	7.43	0	1019120	1019120
9	O.Phos	10.42	0	425277	425277
10	Sulfate	12.78	0	1541610	1541610

LEVEL 5



Calibration Update Report

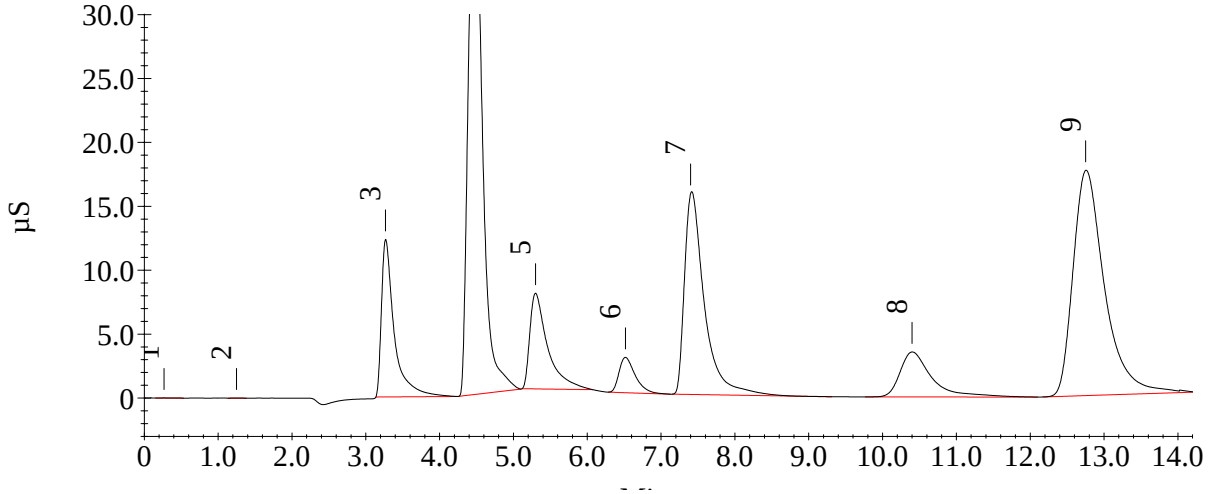
Sample Name : LEVEL 6
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 6_031.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 19:03:27
Calibration Date : 08/17/2013 09:02:59
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.27	0	1479338	951099
4	Chloride	4.47	0	5569014	3025392
5	Nitrite Bromide	5.30	0	1257035	1329633
6	Nitrate	6.52	0	420053	1645484
8	O.Phos	10.40	0	1048400	549003
9	Sulfate	12.75	0	5215982	3040391

LEVEL 6



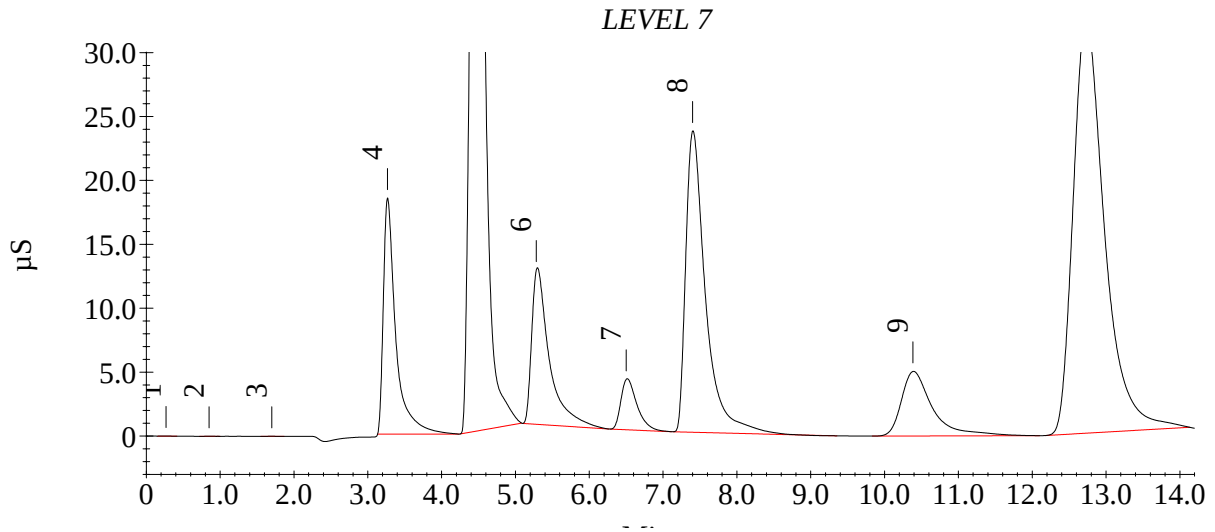
Calibration Update Report

Sample Name : LEVEL 7
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 7_032.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 19:19:57
Calibration Date : 08/16/2013 19:34:11
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.27		2159667	
5	Chloride	4.48	0	8676263	8676263
6	Nitrite	5.28		2020853	
7	Bromide	6.50		601584	
8	Nitrate	7.40	0	4386214	4386214
9	O.Phos	10.38		1475986	
10	Sulfate	12.72	0	9563275	9563275



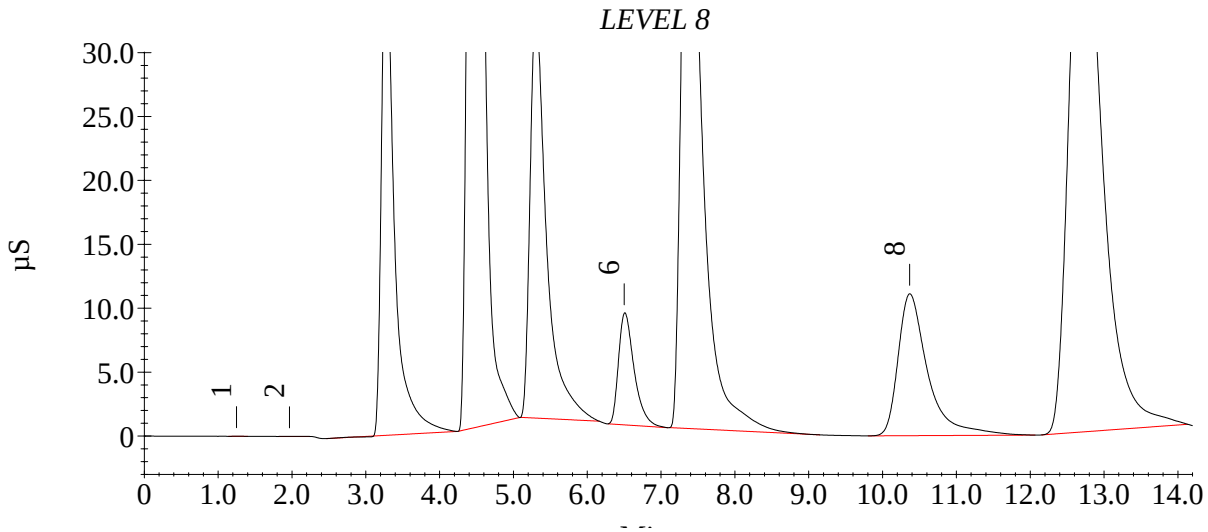
Calibration Update Report

Sample Name : LEVEL 8
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 8_033.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 19:36:23
Calibration Date : 08/16/2013 19:50:37
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.27		4842644	
4	Chloride	4.48	0	12354670	12354670
5	Nitrite	5.30		4956253	
6	Bromide	6.50		1287740	
7	Nitrate	7.37		10022848	
8	O.Phos	10.37		3099608	
9	Sulfate	12.70	0	14141274	14141274



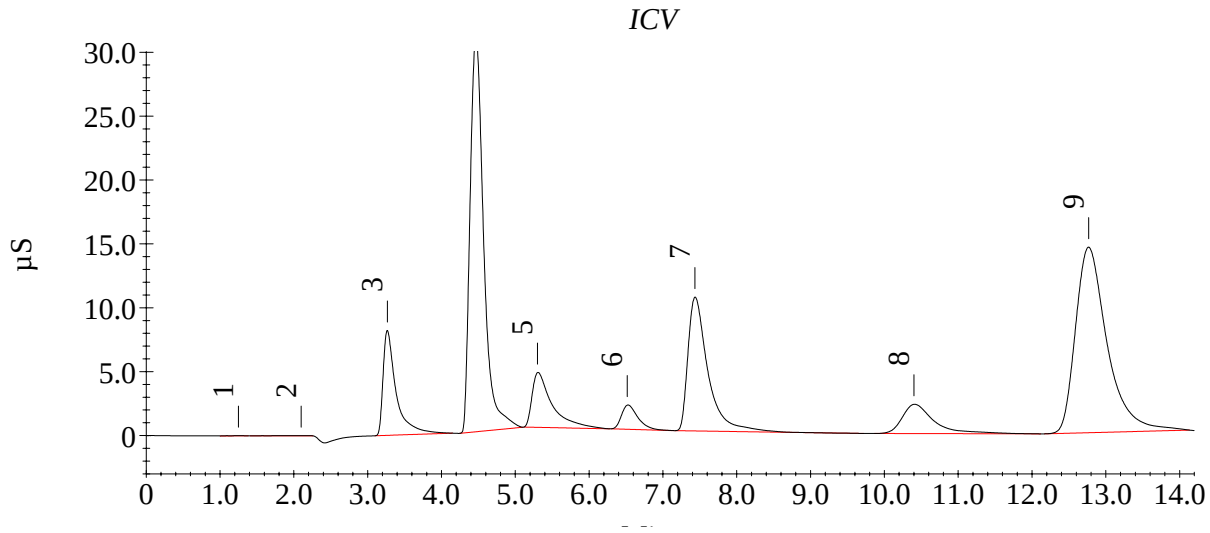
Sample Analysis Report

Sample Name : ICV
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\ICV _034.DXD

Date Time Collected : 08/16/2013 19:52:49
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.27	3.4862	1008165	81938	
4	Chloride	4.47	13.7455	3954755	309675	
5	Nitrite	5.30	3.3698	806883	42778	
6	Bromide	6.52	3.5093	292616	18865	
7	Nitrate	7.43	3.3248	1972232	104571	
8	O.Phos	10.40	3.2608	686778	22849	
9	Sulfate	12.77	22.7516	4318899	145040	



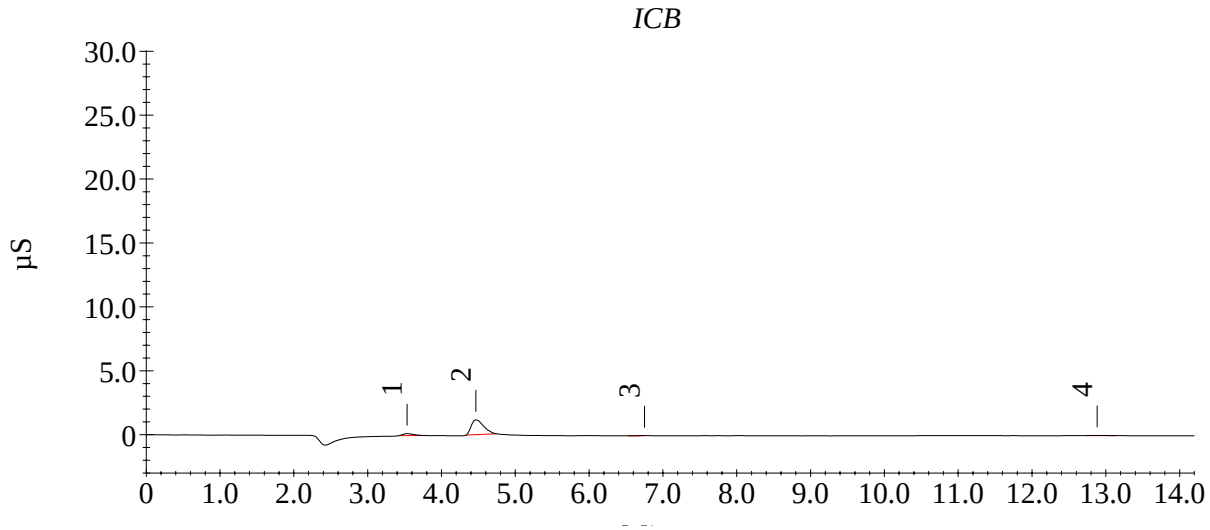
Sample Analysis Report

Sample Name : ICB
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\ICB_035.DXD

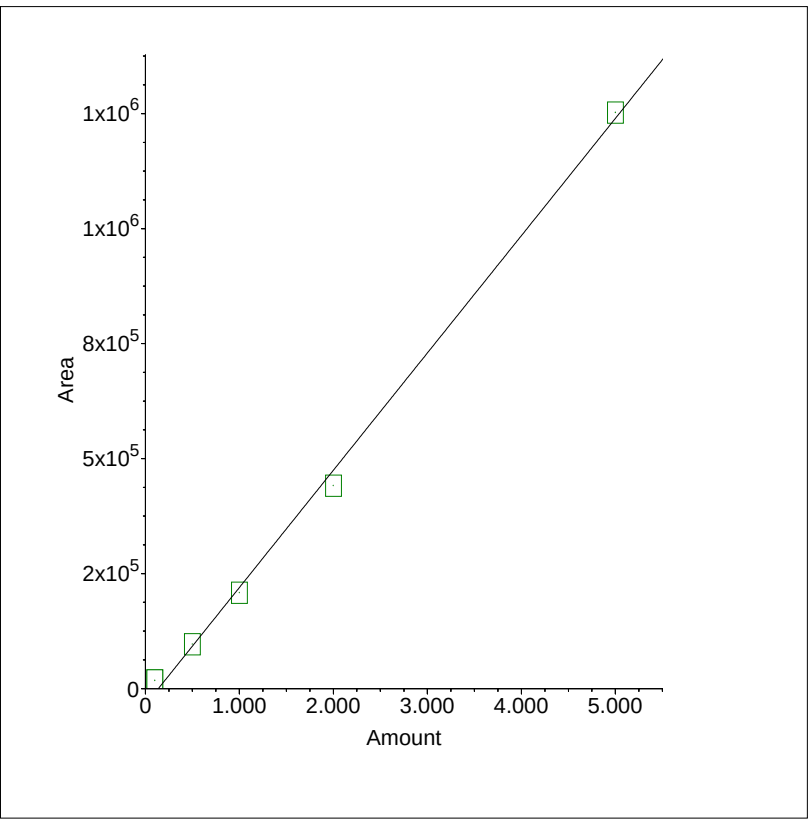
Date Time Collected : 08/16/2013 20:09:14
System Operator : MDS

Peak Information : Found Components

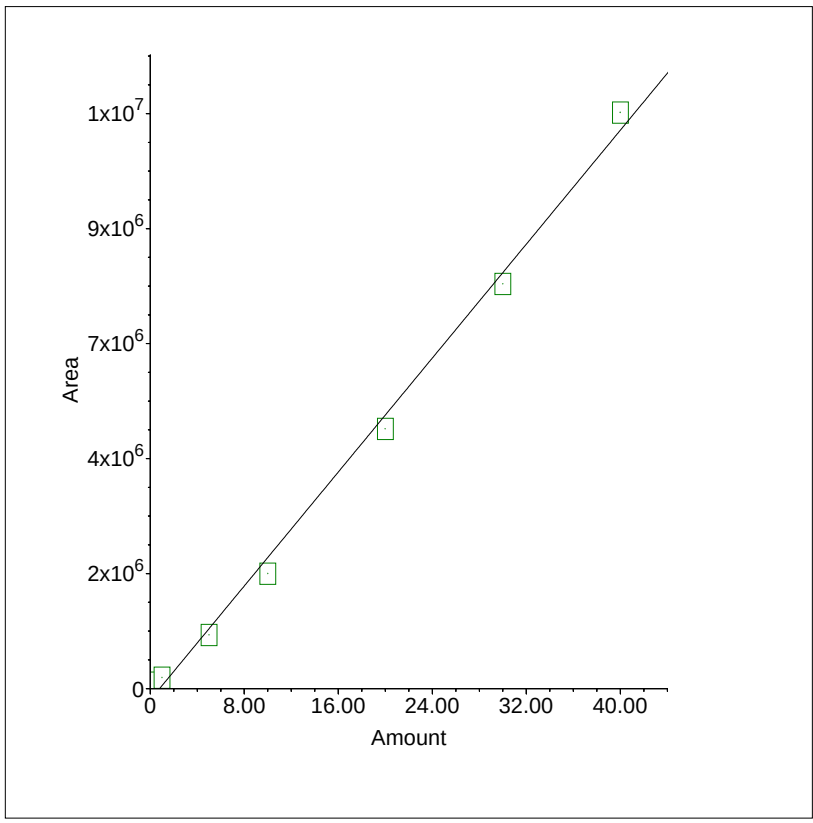
Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.53	0.1874	14710	1475	
2	Chloride	4.47	1.2395	134803	11539	
4	Sulfate	12.88	1.1779	1694	115	



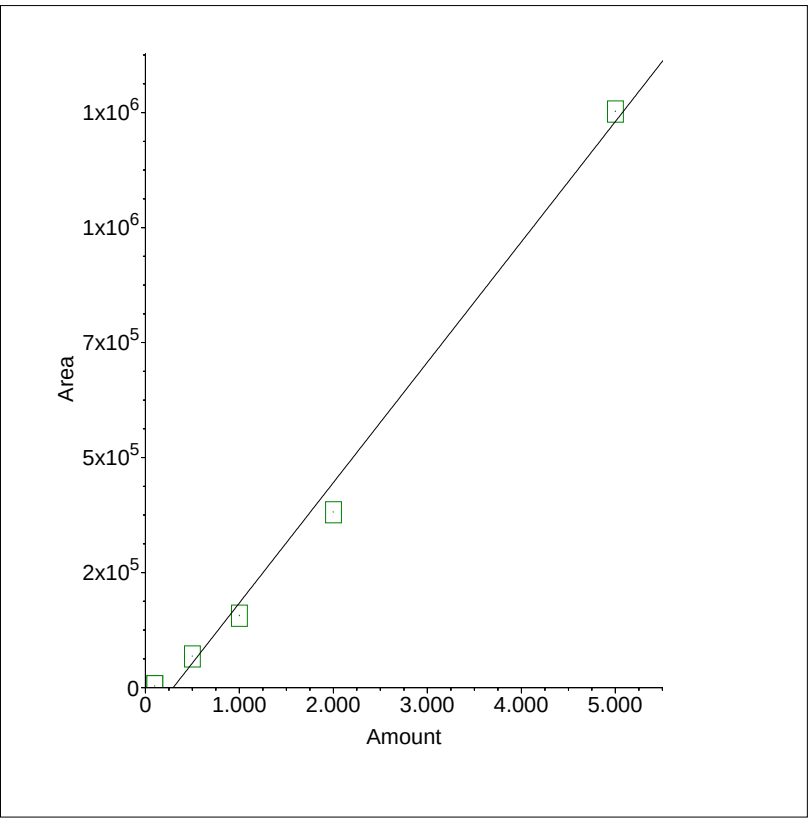
1. Component:Fluoride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997828
Amt=3.32e-006*Resp+0.1386



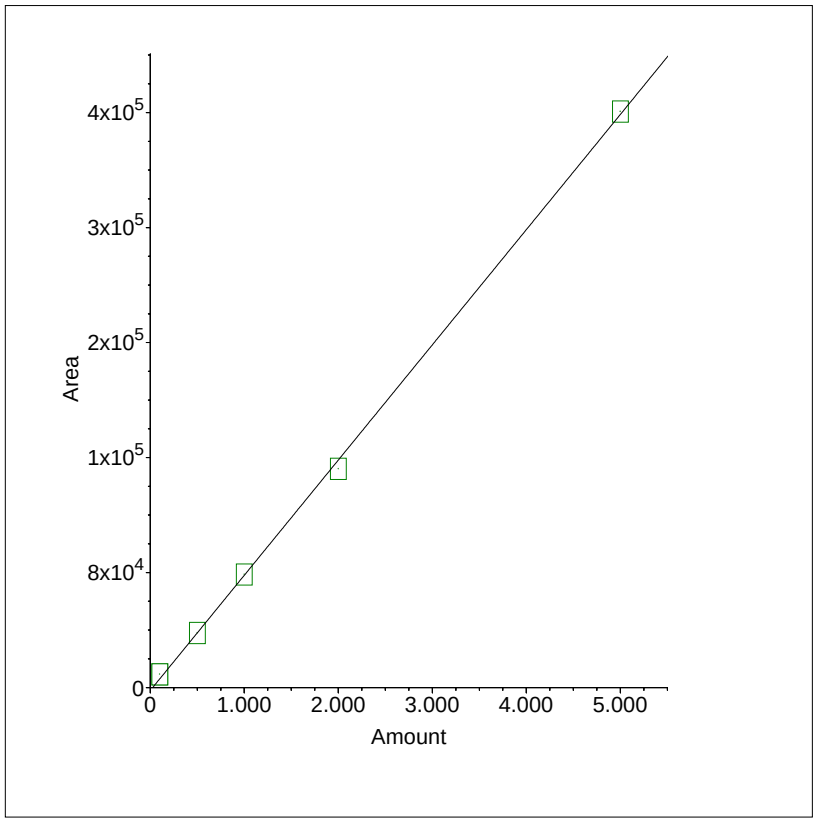
2. Component:Chloride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.996205
Amt=3.274e-006*Resp+0.7982



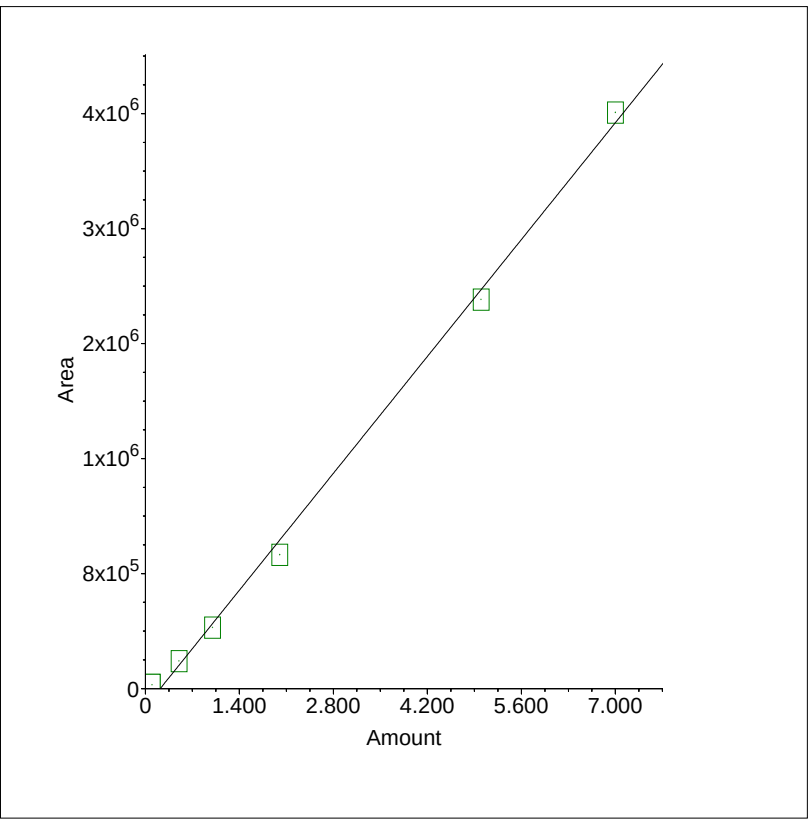
3. Component:Nitrite
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.991918
Amt=3.808e-006*Resp+0.2969



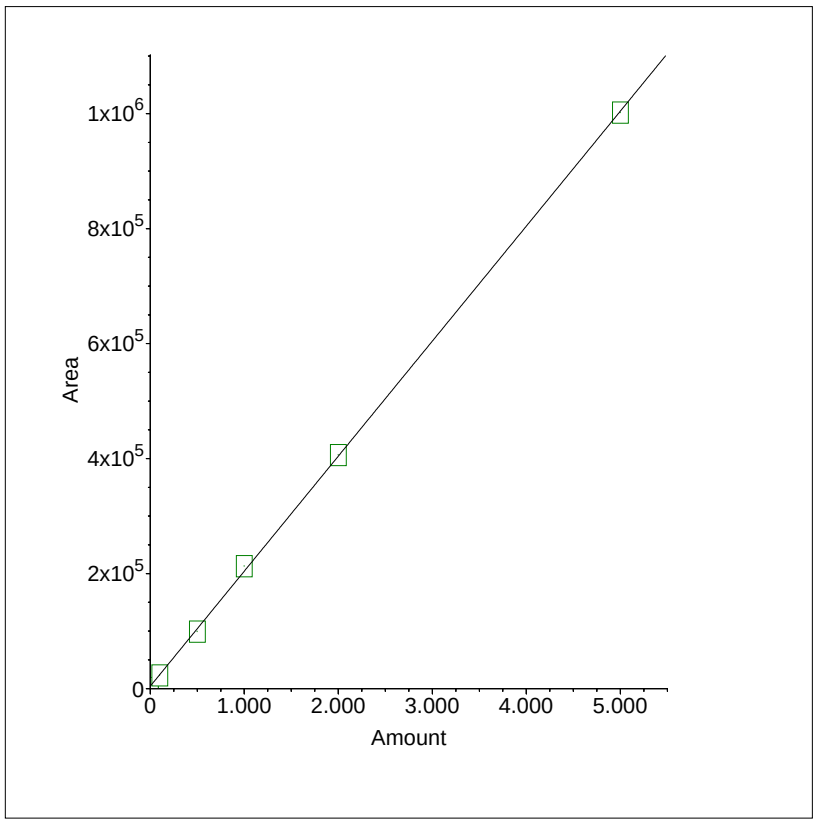
4. Component:Bromide
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999464
Amt=1.19e-005*Resp+0.02604



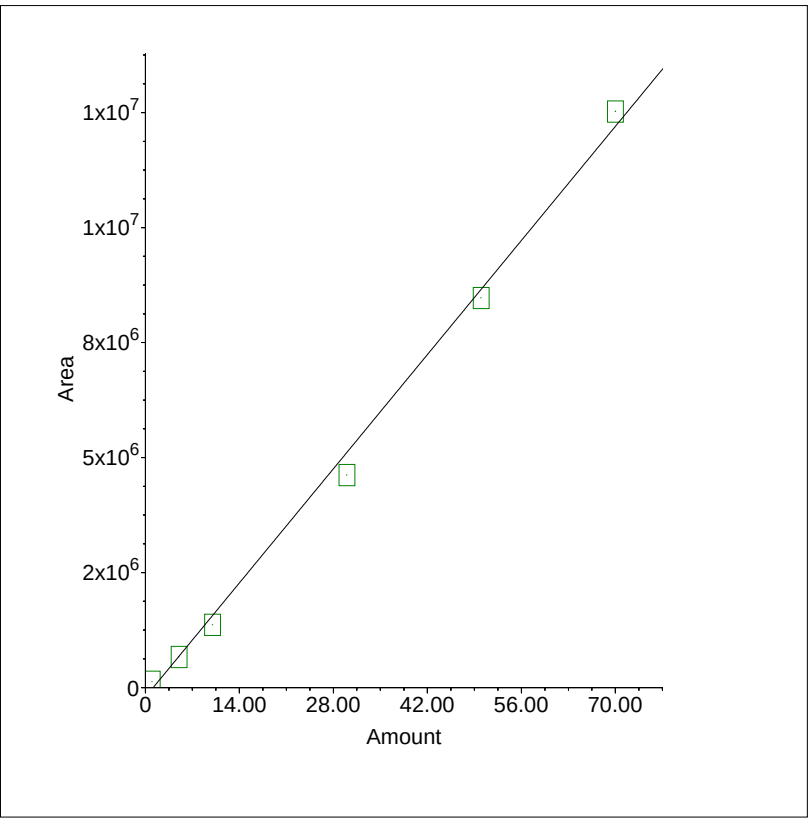
5. Component:Nitrate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997614
Amt=1.573e-006*Resp+0.2219



6. Component:O.Phos
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999827
Amt=4.777e-006*Resp+-0.02028



7. Component:Sulfate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.996613
Amt=4.997e-006*Resp+1.169



Instrument: *DX-120, System 2*

Cal. File: *W32289*

ICV *W32097* W32202

Analyst: *MDS*

Date: *8/16/2013*

Calibration Concentrations

Analyte	Cal Level 1 Conc. (mg/L)	Cal Level 2 Conc. (mg/L)	Cal Level 3 Conc. (mg/L)	Cal Level 4 Conc. (mg/L)	Cal Level 5 Conc. (mg/L)	Cal Level 6 Conc. (mg/L)	Cal Level 7 Conc. (mg/L)	Cal Level 8 Conc. (mg/L)	ICV Conc. (mg/L)
Fluoride	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Chloride	0.0	0.5	1.0	5.0	10.0	20.0	30.0	40.0	15.0
Nitrite	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Bromide	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Nitrate	0.0	0.1	0.5	1.0	2.0	5.0	7.0		3.5
O-Phoshorous	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Sulfate	0.0	0.5	1.0	5.0	10.0	30.0	50.0	70.0	25.0

Level Not Used

Schedule File: C:\Instrument Archives\Sequences\System 2\96935.sch

Line	Sample	Sample Type	Level	Method
9	CCV	Sample		w32289.met
11	LCSS	Sample		w32289.met
12	MBS	Sample		w32289.met
13	339568	Sample		w32289.met
14	DUP339568	Sample		w32289.met
15	MSS339568	Sample		w32289.met
16	MSDS339568	Sample		w32289.met
17	CCV	Sample		w32289.met
18	CCB	Sample		w32289.met

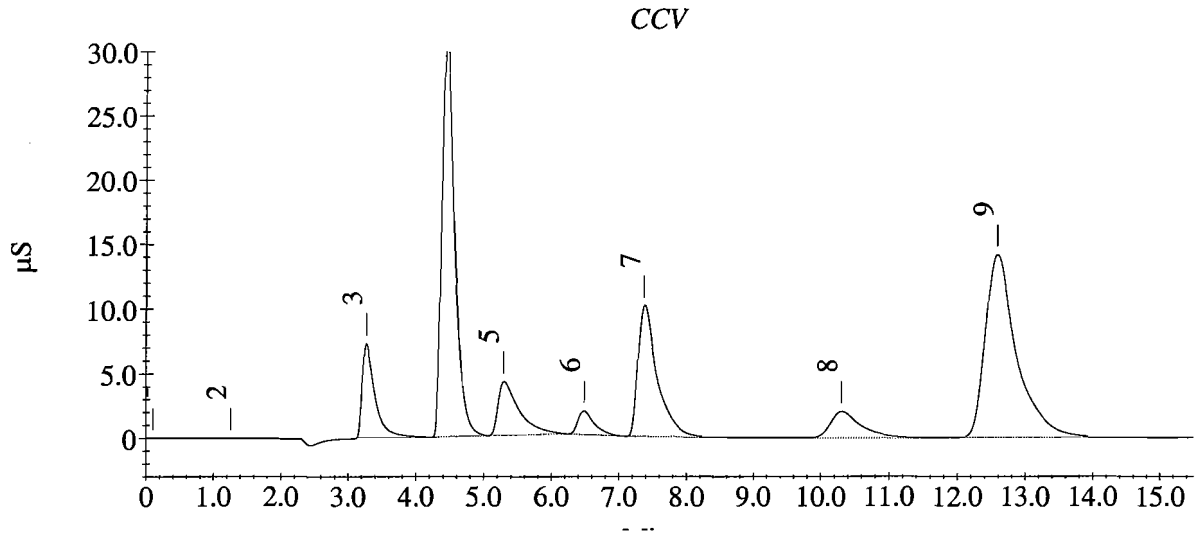
Sample Analysis Report

Sample Name : CCV
Data File Name : c:\instrument archives\data\system 2\96935\CCV_009.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 11:34:19
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.27	3.3001	952142	72807	
4	Chloride	4.43	14.0820	4057534	302965	
5	Nitrite	5.28	3.6986	893218	41446	
6	Bromide	6.48	3.7117	309615	18489	
7	Nitrate	7.37	3.3948	2016695	101193	
8	O.Phos	10.30	3.0825	649463	20525	
9	Sulfate	12.58	23.9800	4564728	141585	



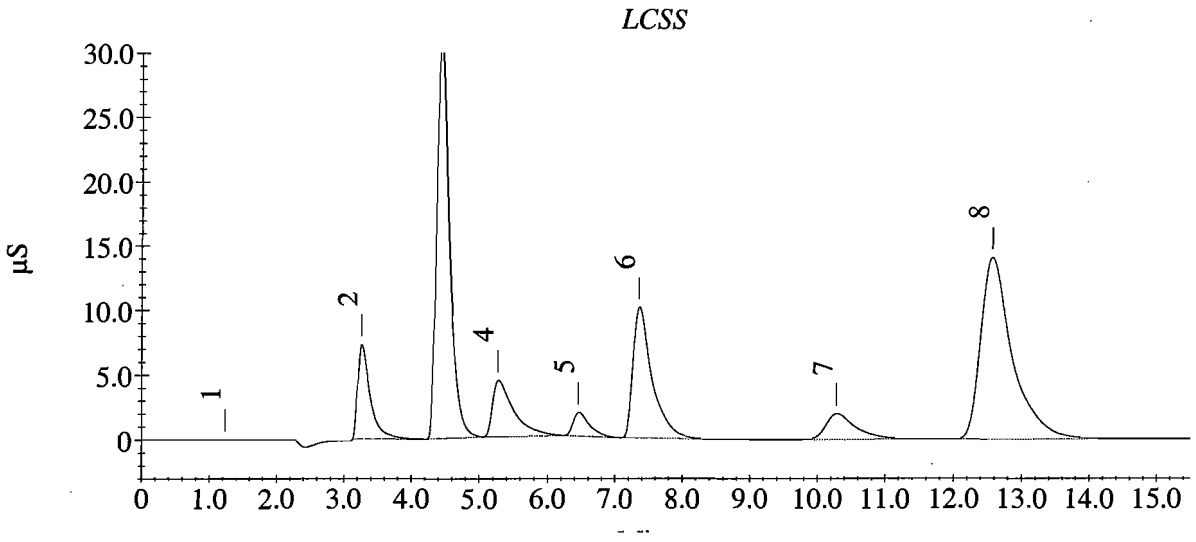
Sample Analysis Report

Sample Name : LCSS
Data File Name : c:\instrument archives\data\system 2\96935\LCSS_011.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 12:11:18
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
2	Fluoride	3.25	3.2449	935516	72829	
3	Chloride	4.43	13.9517	4017749	306977	
4	Nitrite	5.27	3.8171	924338	43206	
5	Bromide	6.45	3.6639	305605	18106	
6	Nitrate	7.35	3.3617	1995685	101038	
7	O.Phos	10.28	2.9708	626085	19902	
8	Sulfate	12.57	23.9512	4558957	140753	



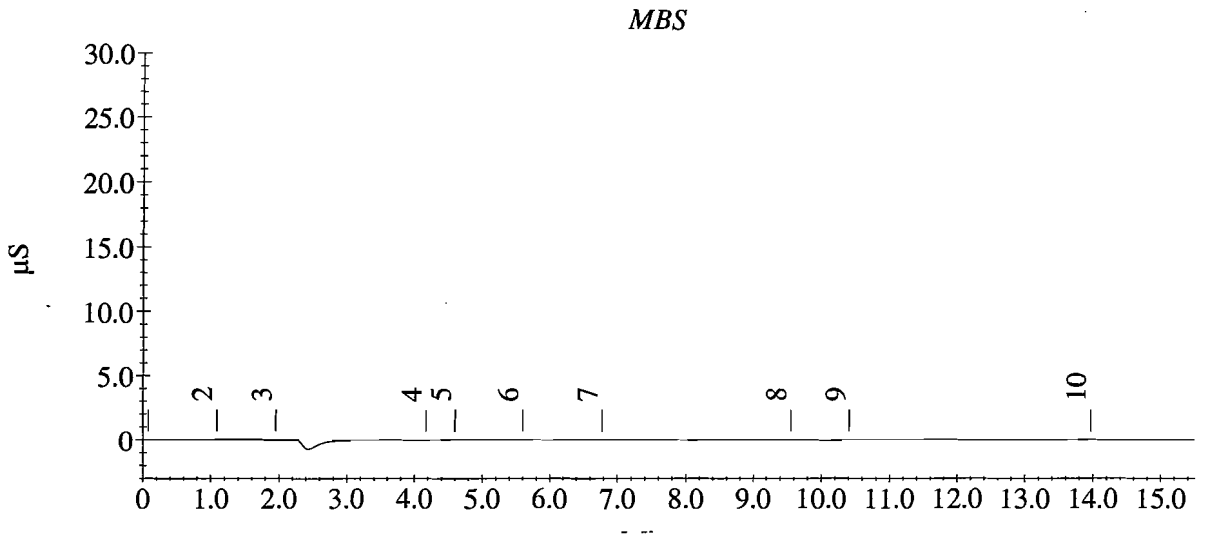
Sample Analysis Report

Sample Name : MBS
Data File Name : c:\instrument archives\data\system 2\96935\MBS_012.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 12:29:04
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
5	Chloride	4.60	0.8201	6696	285	
7	Bromide	6.77	0.0801	4544	196	
9	O.Phos	10.42	-0.0141	1298	84	



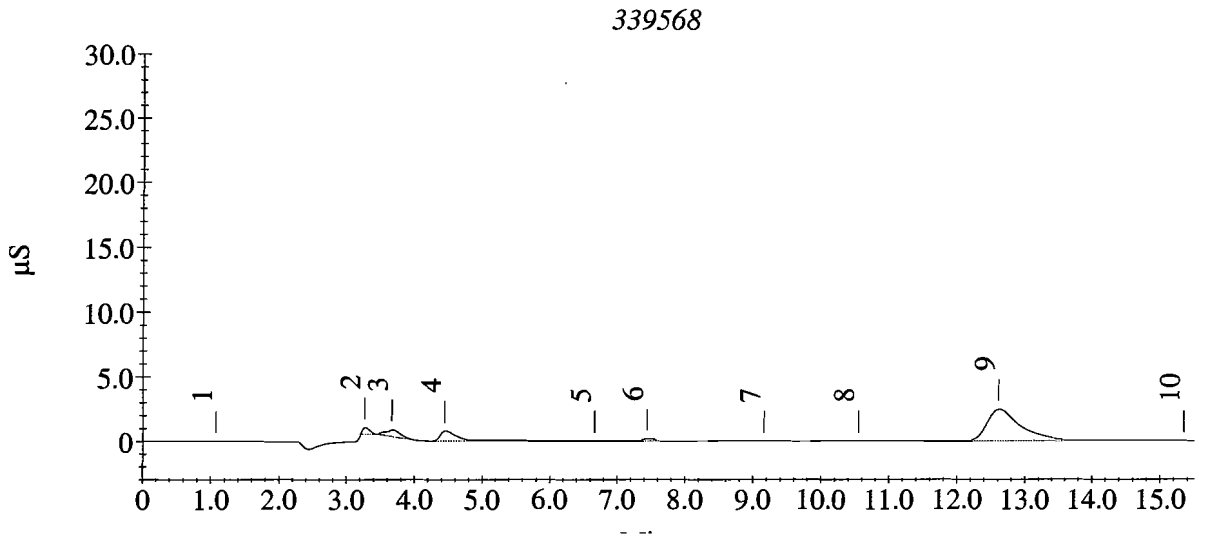
Sample Analysis Report

Sample Name : 339568
Data File Name : c:\instrument archives\data\system 2\96935\339568_013.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 12:46:52
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
2	Fluoride	3.27	0.2755	41247	5391	
4	Chloride	4.45	1.2042	124029	7687	
6	Nitrate	7.45	0.2661	28086	1566	
8	O.Phos	10.55	-0.0107	2015	65	
9	Sulfate	12.62	5.3177	830133	24264	



B#4 08/21/13
MDS

Sample Analysis Report

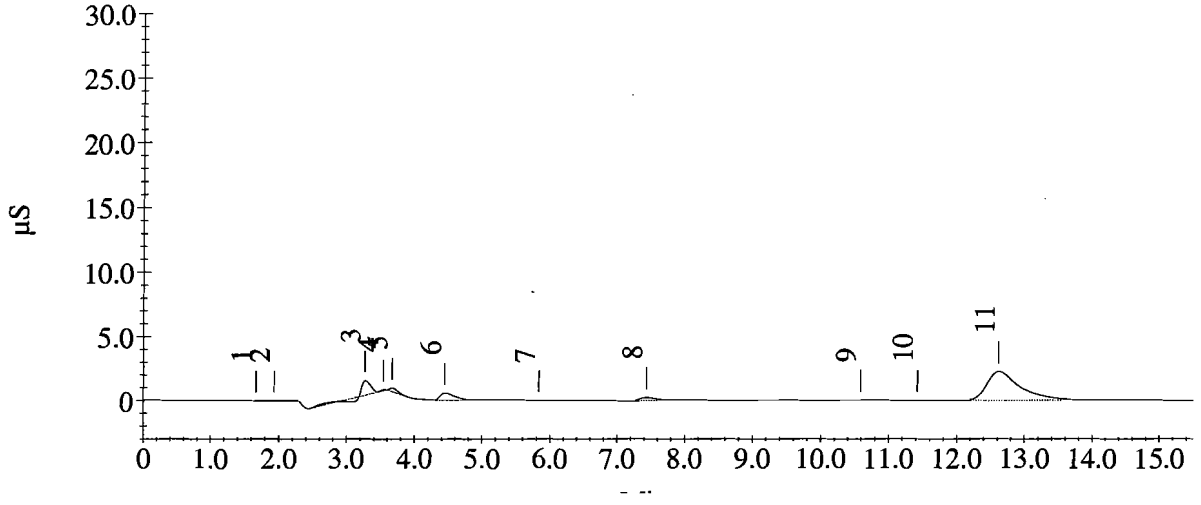
Sample Name : DUP339568
Data File Name : c:\instrument archives\data\system 2\96935\DUP339568_014.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 13:18:42
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.27	0.4204	84876	11335	
6	Chloride	4.45	1.0832	87048	5663	
7	Nitrite	5.83	0.3025	1462	85	
8	Nitrate	7.43	0.2923	44739	2379	
9	O.Phos	10.58	-0.0062	2952	95	
11	Sulfate	12.62	5.0539	777342	22643	

DUP339568



8/22/13

A 08/21/13 MDS

Sample Analysis Report

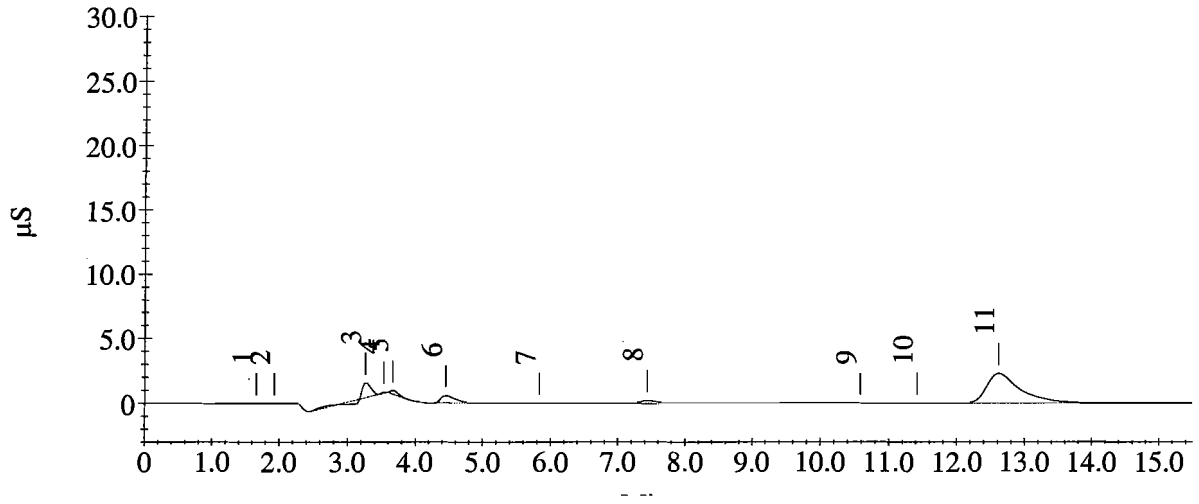
Sample Name : DUP339568
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\96935\DUP339568_014.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 13:18:42
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.27	0.4204	84876	11335	
6	Chloride	4.45	1.0832	87048	5663	
8	Nitrate	7.43	0.2923	44739	2379	
9	O.Phos	10.58	-0.0062	2952	95	
11	Sulfate	12.62	5.0539	777342	22643	

DUP339568



8/22/13

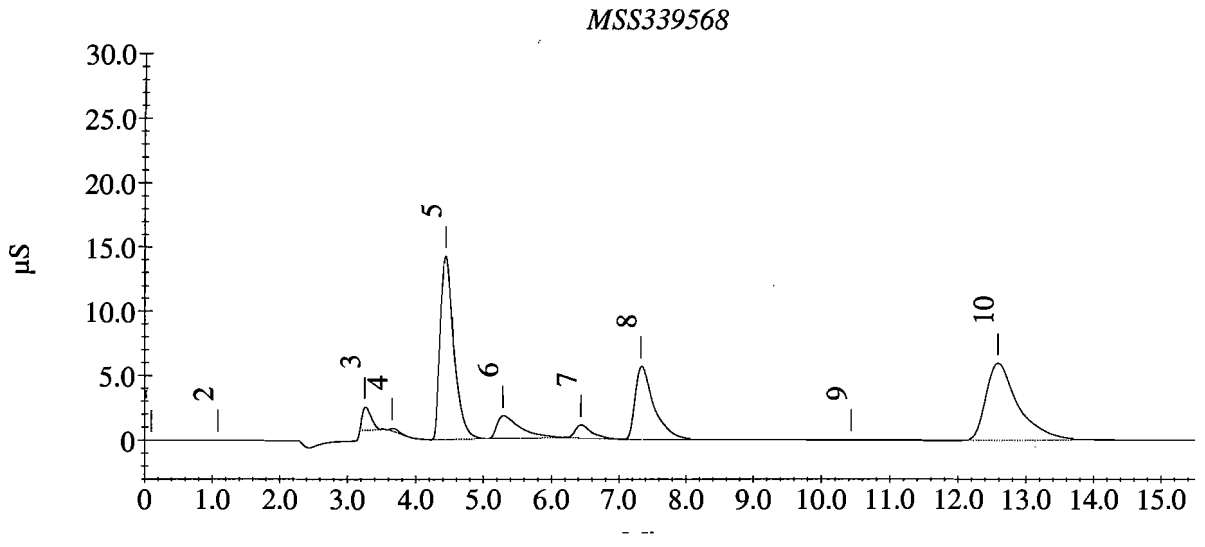
Sample Analysis Report

Sample Name : MSS339568
Data File Name : c:\instrument archives\data\system 2\96935\MSS339568_015.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 13:36:26
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.25	0.6798	162987	17505	
5	Chloride	4.43	7.3124	1989769	141897	
6	Nitrite	5.28	1.8973	420216	17574	
7	Bromide	6.43	2.0286	168226	10052	
8	Nitrate	7.32	1.9605	1105075	55911	
9	O.Phos	10.43	0.0606	16931	556	
10	Sulfate	12.58	11.0156	1970353	59478	



Sample Analysis Report

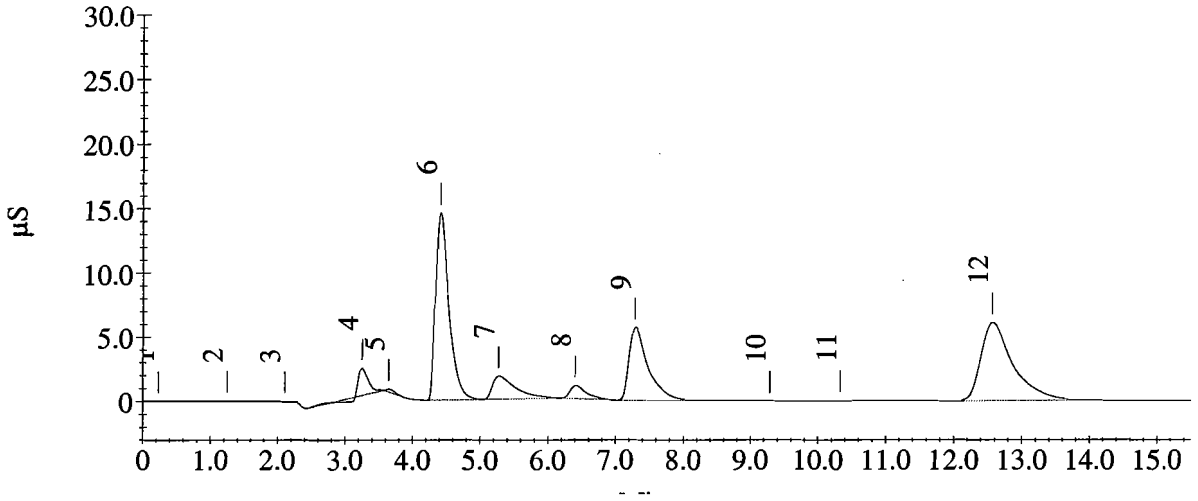
Sample Name : MSDS339568
Data File Name : c:\instrument archives\data\system 2\96935\MSDS339568_016.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 13:54:16
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
4	Fluoride	3.25	0.7832	194145	21144	
6	Chloride	4.42	7.4280	2025076	145583	
7	Nitrite	5.27	1.9059	422497	17901	
8	Bromide	6.40	2.0213	167612	10117	
9	Nitrate	7.28	1.9652	1108023	56360	
11	O.Phos	10.33	0.1013	25439	737	
12	Sulfate	12.57	11.1449	1996226	60894	

MSDS339568



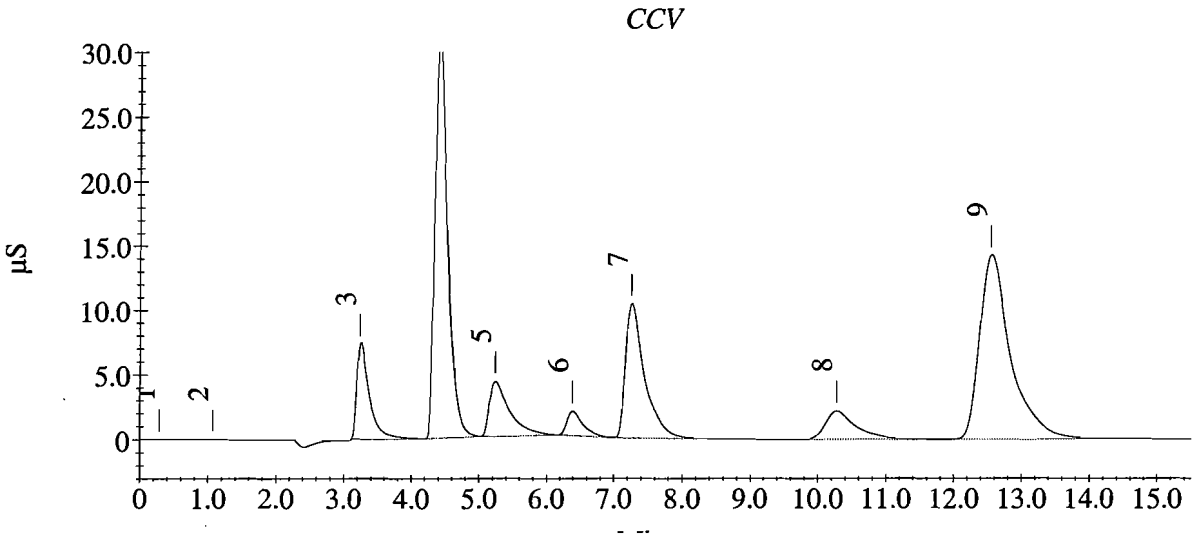
Sample Analysis Report

Sample Name : CCV
Data File Name : c:\instrument archives\data\system 2\96935\CCV_017.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 14:12:02
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.23	3.3064	954014	73208	
4	Chloride	4.40	13.9820	4026989	309301	
5	Nitrite	5.23	3.6546	881676	42423	
6	Bromide	6.38	3.6602	305290	18776	
7	Nitrate	7.25	3.3621	1995909	103255	
8	O.Phos	10.27	3.2731	689354	21882	
9	Sulfate	12.53	23.9806	4564838	142496	



B#4 08/21/13 mds

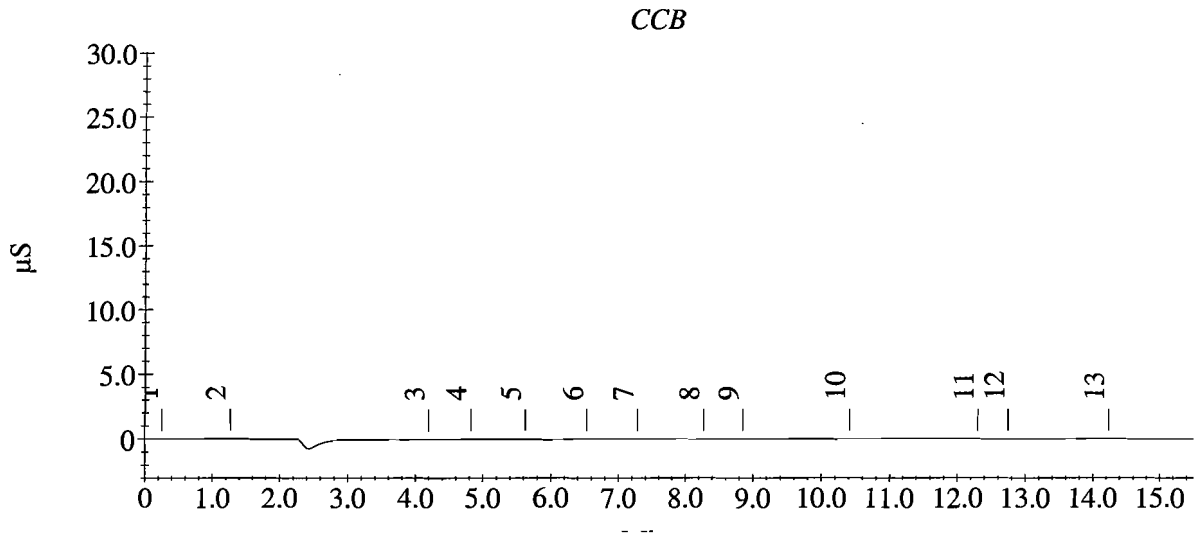
Sample Analysis Report

Sample Name : CCB
Data File Name : c:\instrument archives\data\system 2\96935\CCB_018.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 14:29:49
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Chloride	4.20	0.8238	7816	226	
5	Nitrite	5.62	0.3053	2203	101	
10	O.Phos	10.42	0.0040	5080	196	
12	Sulfate	12.75	1.1763	1368	98	



8/22/13

A 08/21/13
MDS

Sample Analysis Report

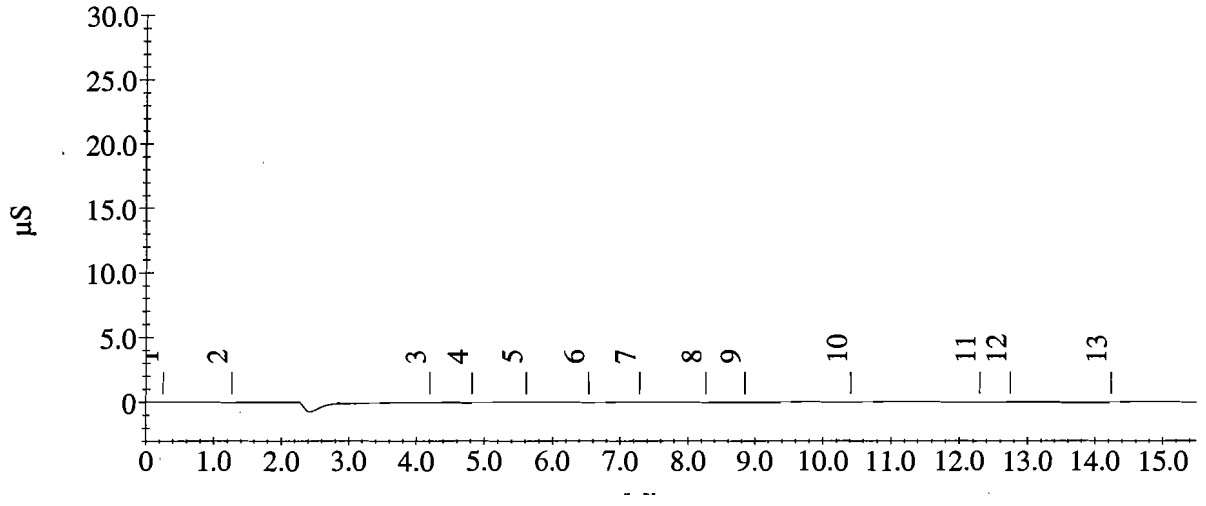
Sample Name : CCB
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\96935\CCB_018.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/21/2013 14:29:49
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Chloride	4.20	0.8238	7816	226	
10	O.Phos	10.42	0.0040	5080	196	
12	Sulfate	12.75	1.1763	1368	98	

CCB



RM 8/22/13

Schedule File: C:\Instrument Archives\Sequences\System 2\081613B.sch

Page 2113

Line	Sample	Sample Type	Level	Method
26	LEVEL 1	Calibration St	1	w32289.met
27	LEVEL 2	Calibration St	2	w32289.met
28	LEVEL 3	Calibration St	3	w32289.met
29	LEVEL 4	Calibration St	4	w32289.met
30	LEVEL 5	Calibration St	5	w32289.met
31	LEVEL 6	Calibration St	6	w32289.met
32	LEVEL 7	Calibration St	7	w32289.met
33	LEVEL 8	Calibration St	8	w32289.met
34	ICV	Sample		w32289.met
35	ICB	Sample		w32289.met

Calibration Update Report

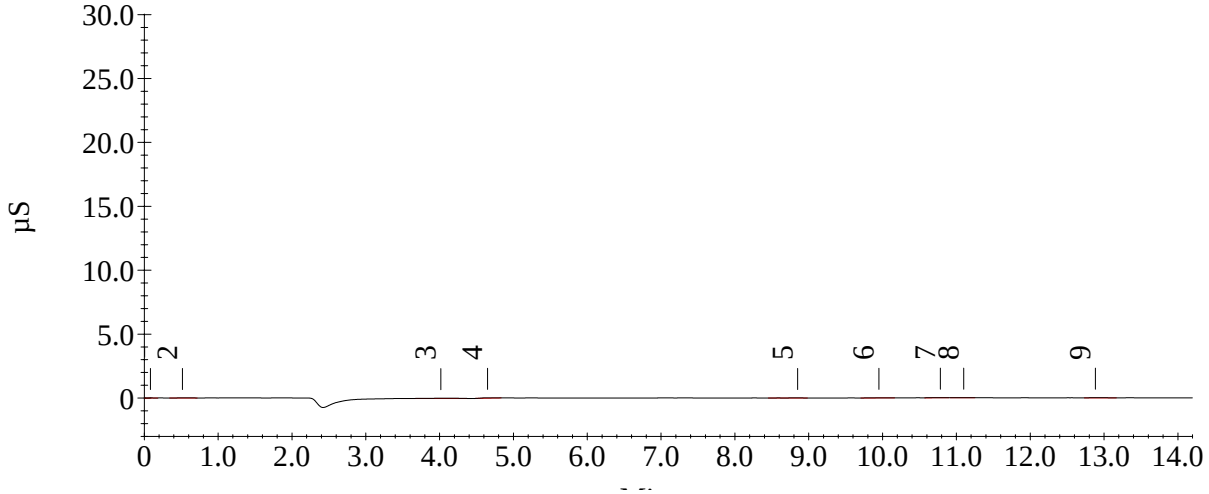
Sample Name : LEVEL 1
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 1_026.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 17:41:16
Calibration Date : 08/16/2013 17:55:29
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Chloride	4.65	0	3520	3520
6	O.Phos	9.95	0	1007	1007
9	Sulfate	12.88	0	1088	1088

LEVEL 1



Calibration Update Report

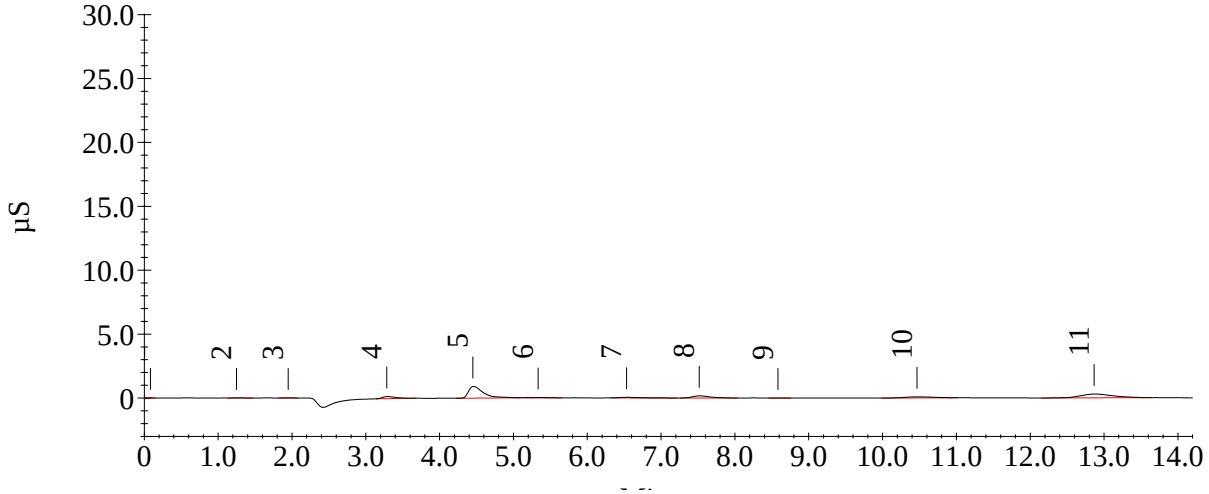
Sample Name : LEVEL 2
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 2_027.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 17:57:41
Calibration Date : 08/16/2013 18:11:55
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.28	0	20872	212674
5	Chloride	4.45	0	128360	128360
6	Nitrite	5.33	0	3132	3132
7	Bromide	6.53	0	9771	9771
8	Nitrate	7.52	0	28115	28115
10	O.Phos	10.47	0	24261	24261
11	Sulfate	12.87	0	90921	90921

LEVEL 2



Calibration Update Report

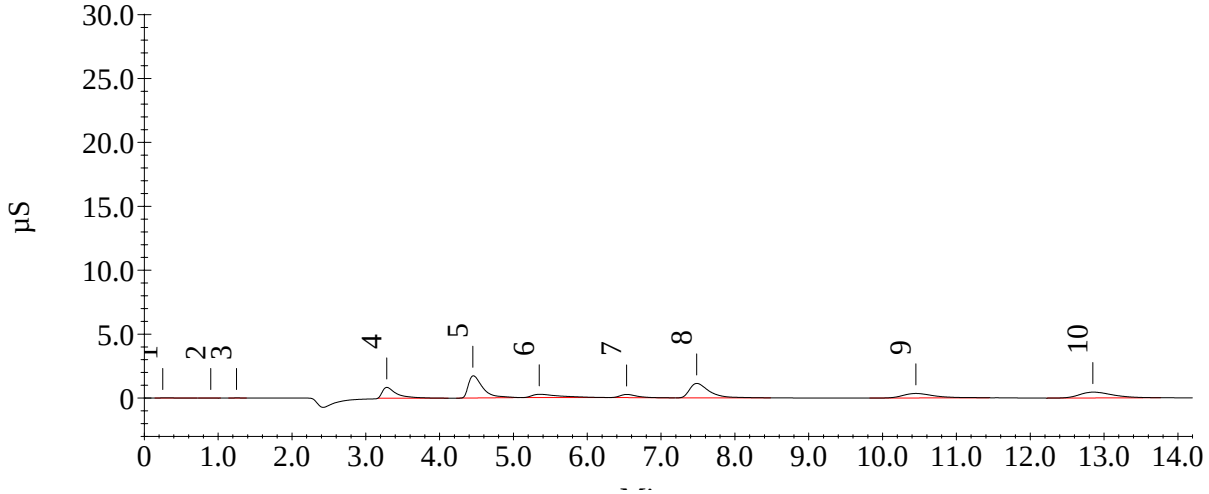
Sample Name : LEVEL 3
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 3_028.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 18:14:08
Calibration Date : 08/16/2013 18:28:22
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.28	0	113837	113837
5	Chloride	4.45	0	235018	235018
6	Nitrite	5.35	0	68268	68268
7	Bromide	6.53	0	39760	39760
8	Nitrate	7.48	0	209777	209777
9	O.Phos	10.45	0	103761	103761
10	Sulfate	12.85	0	143043	143043

LEVEL 3



Calibration Update Report

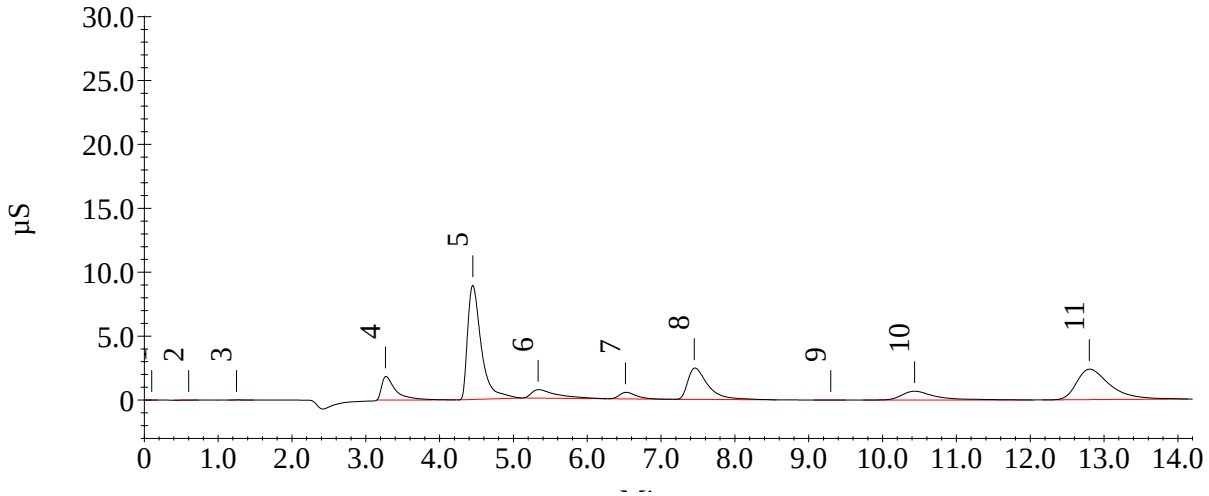
Sample Name : LEVEL 4
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 4_029.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 18:30:35
Calibration Date : 08/16/2013 18:44:48
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.27	0	246157	246157
5	Chloride	4.45	0	1149655	1149655
6	Nitrite	5.33	0	157083	157083
7	Bromide	6.52	0	82469	82469
8	Nitrate	7.45	0	464915	464915
10	O.Phos	10.43	0	222874	222874
11	Sulfate	12.80	0	749657	749657

LEVEL 4



Calibration Update Report

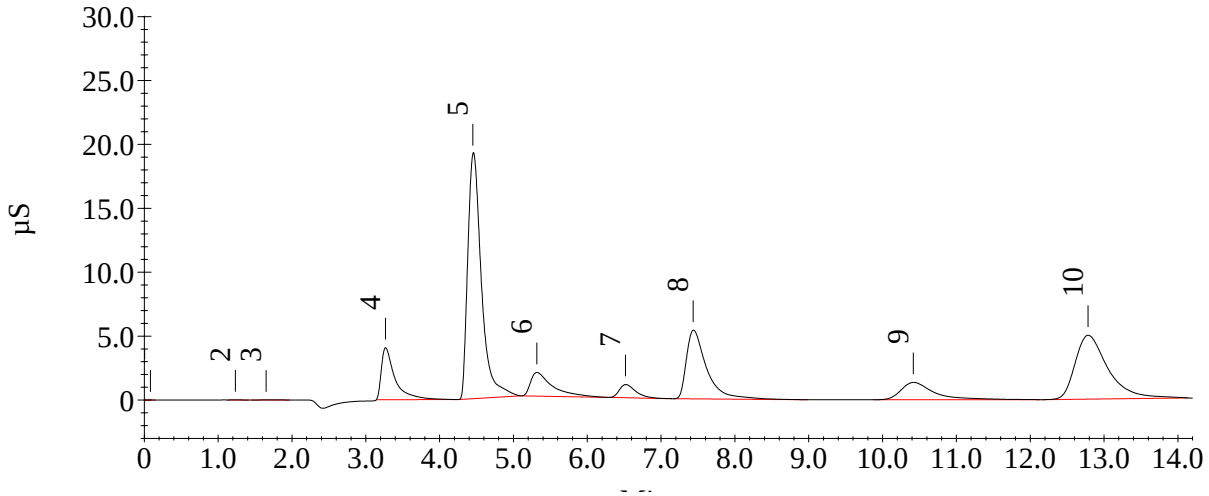
Sample Name : LEVEL 5
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 5_030.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 18:47:01
Calibration Date : 08/16/2013 19:01:14
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.27	0	521129	521129
5	Chloride	4.45	0	2463474	2463474
6	Nitrite	5.32	0	382835	382835
7	Bromide	6.52	0	159460	159460
8	Nitrate	7.43	0	1019120	1019120
9	O.Phos	10.42	0	425277	425277
10	Sulfate	12.78	0	1541610	1541610

LEVEL 5



Calibration Update Report

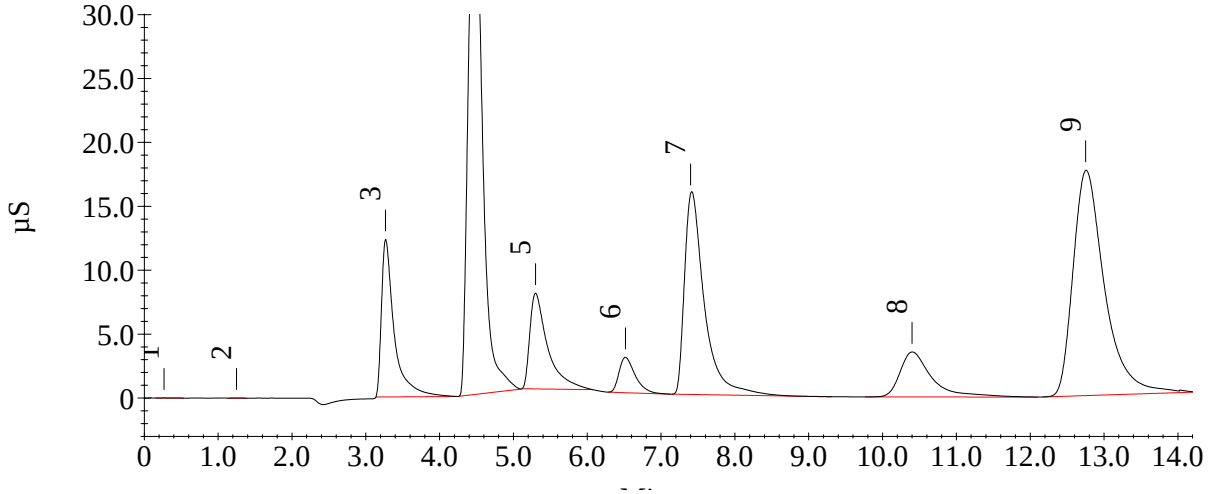
Sample Name : LEVEL 6
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 6_031.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 19:03:27
Calibration Date : 08/17/2013 09:02:59
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.27	0	1479338	951099
4	Chloride	4.47	0	5569014	3025392
5	Nitrite Bromide	5.30	0	1257035	1329633
6	Nitrate	6.52	0	420053	1645484
8	O.Phos	10.40	0	1048400	549003
9	Sulfate	12.75	0	5215982	3040391

LEVEL 6



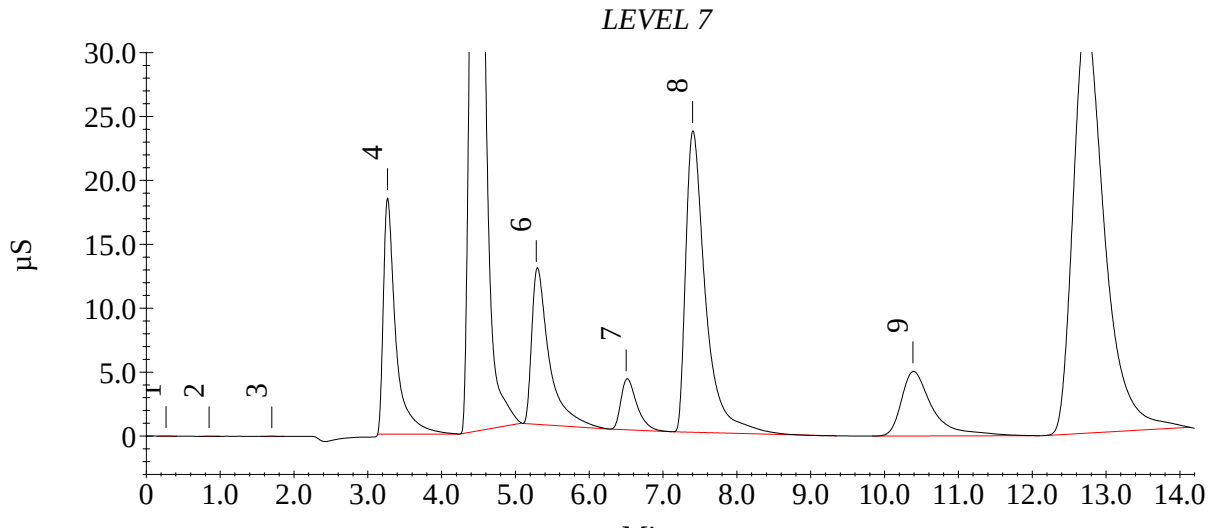
Calibration Update Report

Sample Name : LEVEL 7
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 7_032.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 19:19:57
Calibration Date : 08/16/2013 19:34:11
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.27		2159667	
5	Chloride	4.48	0	8676263	8676263
6	Nitrite	5.28		2020853	
7	Bromide	6.50		601584	
8	Nitrate	7.40	0	4386214	4386214
9	O.Phos	10.38		1475986	
10	Sulfate	12.72	0	9563275	9563275



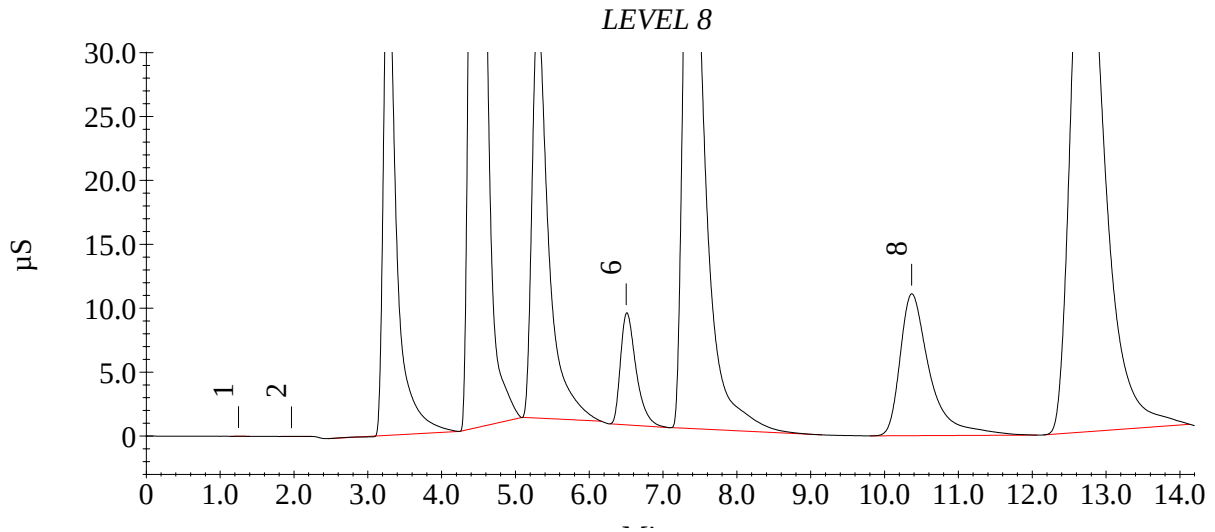
Calibration Update Report

Sample Name : LEVEL 8
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\LEVEL 8_033.DXD

Schedule File Name : c:\instrument archives\sequences\system 2\081613b.sch
Date Time Collected : 08/16/2013 19:36:23
Calibration Date : 08/16/2013 19:50:37
System Operator : MDS

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.27		4842644	
4	Chloride	4.48	0	12354670	12354670
5	Nitrite	5.30		4956253	
6	Bromide	6.50		1287740	
7	Nitrate	7.37		10022848	
8	O.Phos	10.37		3099608	
9	Sulfate	12.70	0	14141274	14141274



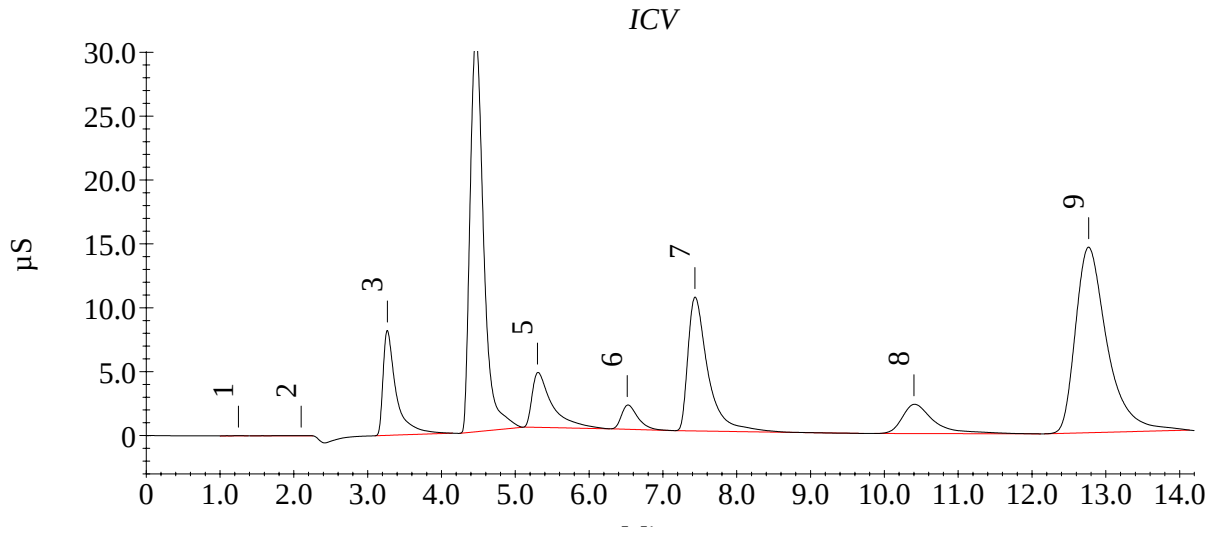
Sample Analysis Report

Sample Name : ICV
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\ICV _034.DXD

Date Time Collected : 08/16/2013 19:52:49
System Operator : MDS

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.27	3.4862	1008165	81938	
4	Chloride	4.47	13.7455	3954755	309675	
5	Nitrite	5.30	3.3698	806883	42778	
6	Bromide	6.52	3.5093	292616	18865	
7	Nitrate	7.43	3.3248	1972232	104571	
8	O.Phos	10.40	3.2608	686778	22849	
9	Sulfate	12.77	22.7516	4318899	145040	



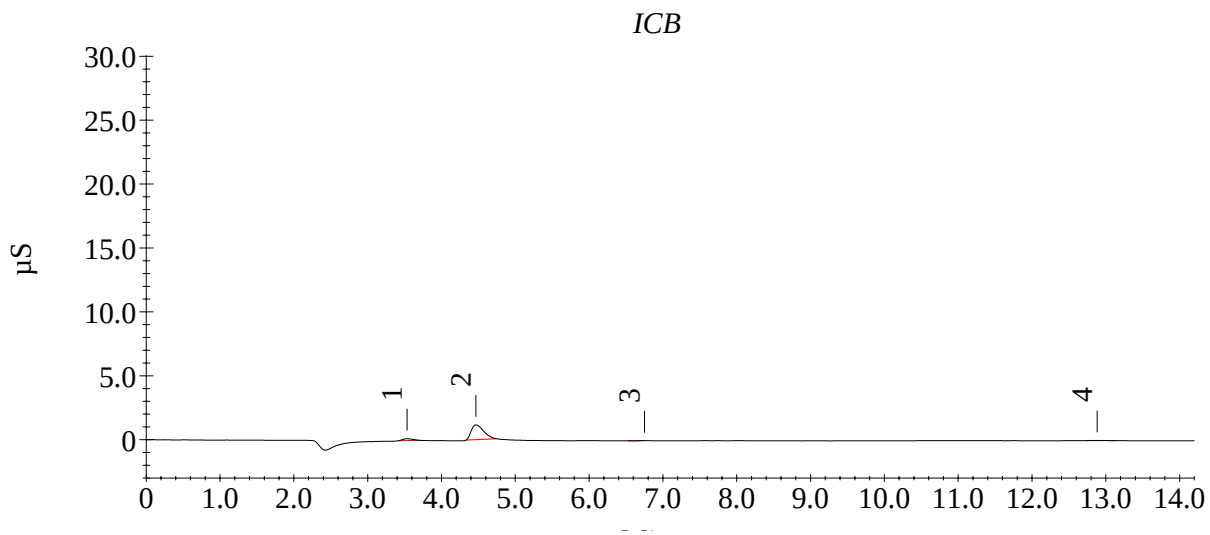
Sample Analysis Report

Sample Name : ICB
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\081613B\ICB_035.DXD

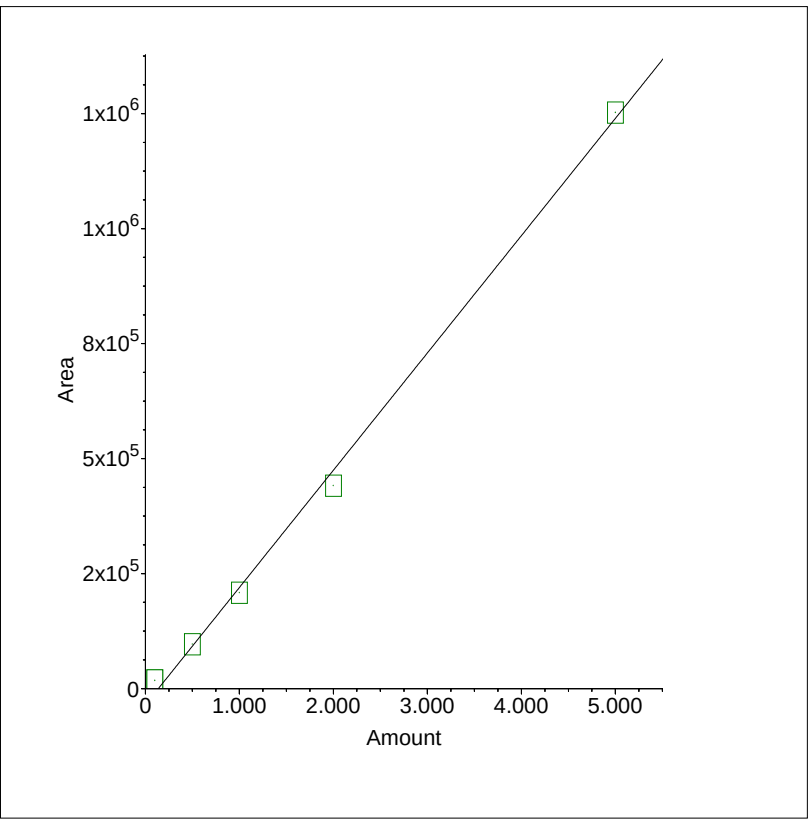
Date Time Collected : 08/16/2013 20:09:14
System Operator : MDS

Peak Information : Found Components

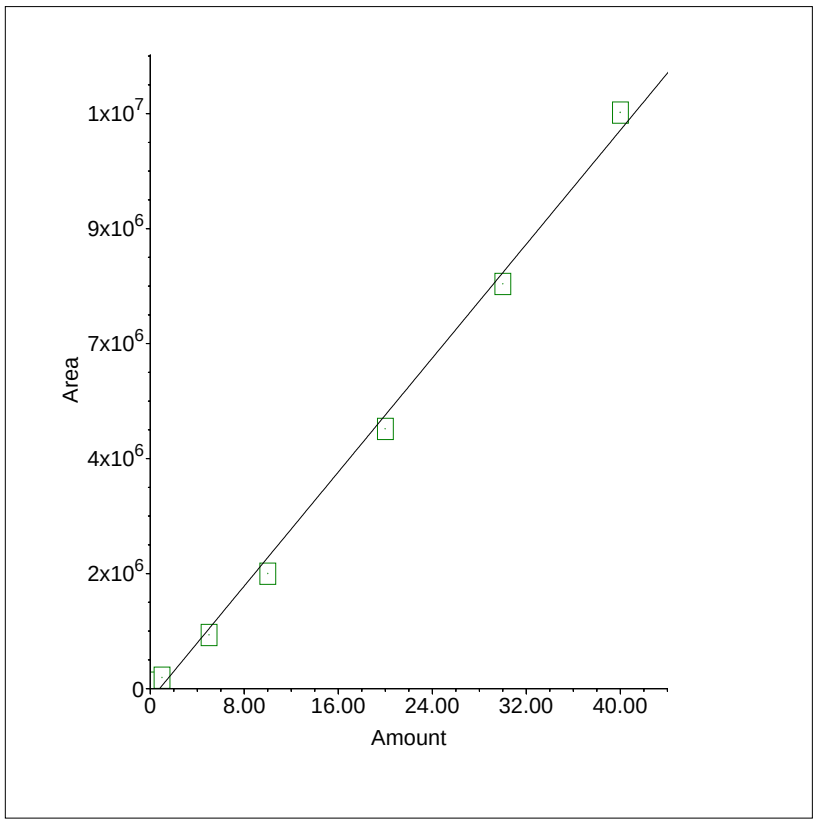
Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.53	0.1874	14710	1475	
2	Chloride	4.47	1.2395	134803	11539	
4	Sulfate	12.88	1.1779	1694	115	



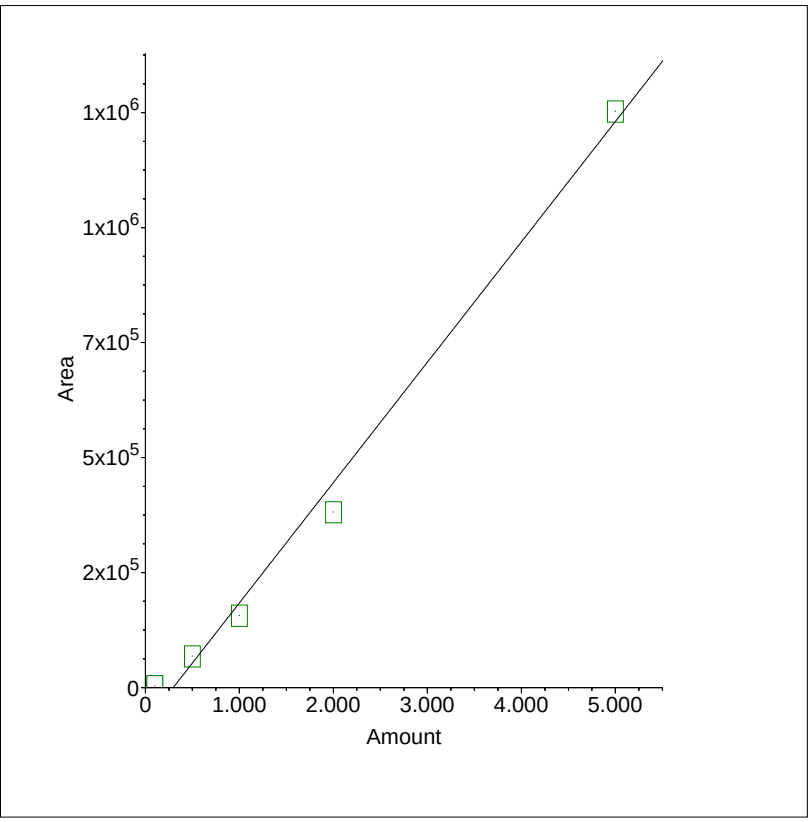
1. Component:Fluoride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997828
Amt=3.32e-006*Resp+0.1386



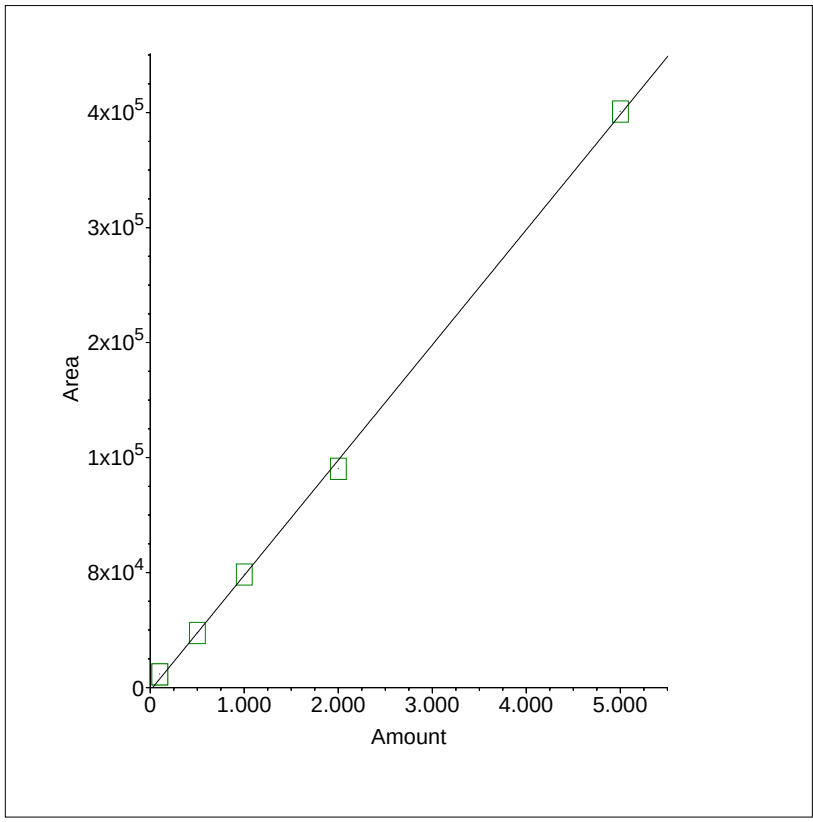
2. Component:Chloride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.996205
Amt=3.274e-006*Resp+0.7982



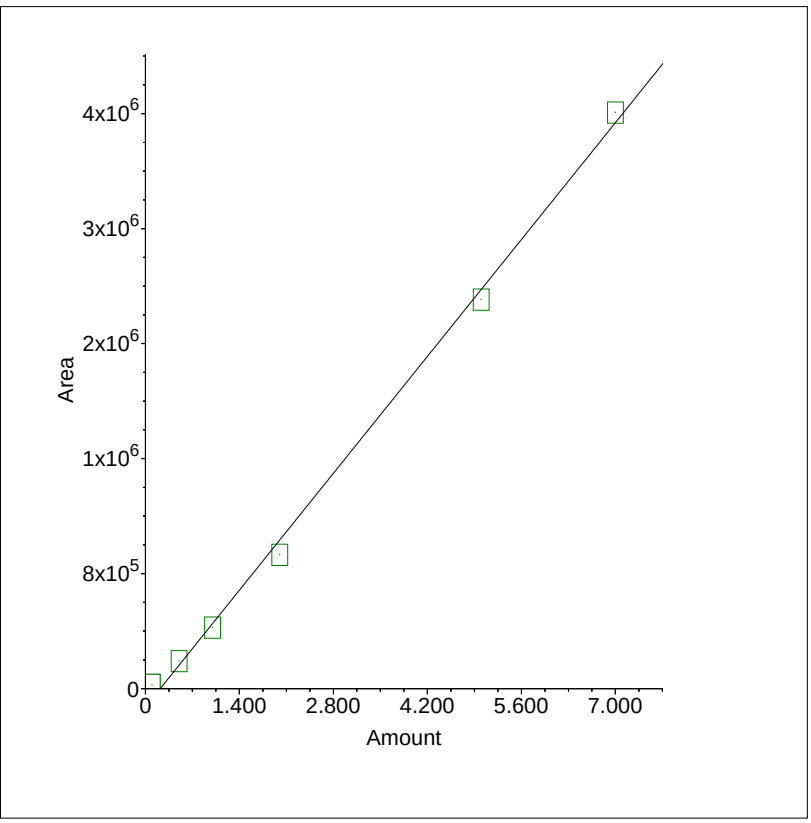
3. Component:Nitrite
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.991918
Amt=3.808e-006*Resp+0.2969



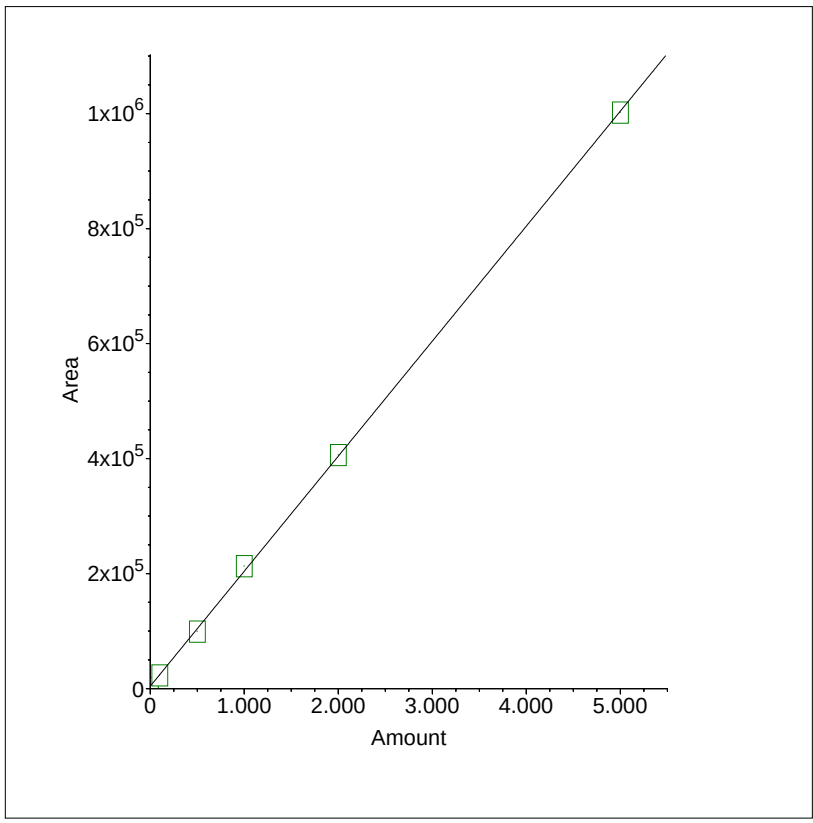
4. Component:Bromide
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999464
Amt=1.19e-005*Resp+0.02604



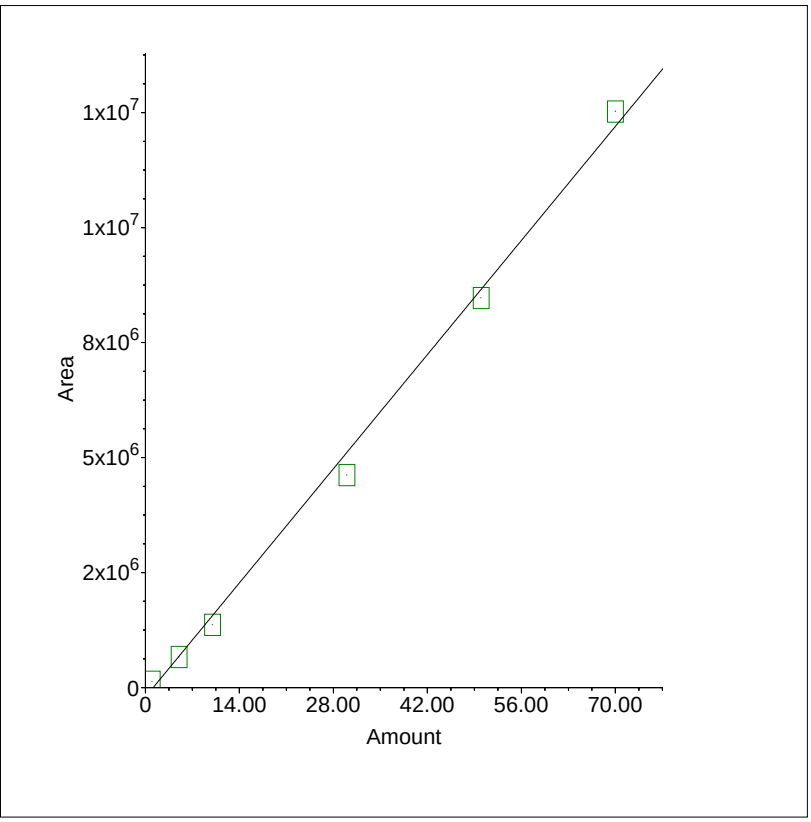
5. Component:Nitrate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997614
Amt=1.573e-006*Resp+0.2219



6. Component:O.Phos
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999827
Amt=4.777e-006*Resp+-0.02028



7. Component:Sulfate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.996613
Amt=4.997e-006*Resp+1.169



Instrument: *DX-120, System 2*

Cal. File: *W32289*

ICV *W32097* W32202

Analyst: *MDS*

Date: *8/16/2013*

Calibration Concentrations

Analyte	Cal Level 1 Conc. (mg/L)	Cal Level 2 Conc. (mg/L)	Cal Level 3 Conc. (mg/L)	Cal Level 4 Conc. (mg/L)	Cal Level 5 Conc. (mg/L)	Cal Level 6 Conc. (mg/L)	Cal Level 7 Conc. (mg/L)	Cal Level 8 Conc. (mg/L)	ICV Conc. (mg/L)
Fluoride	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Chloride	0.0	0.5	1.0	5.0	10.0	20.0	30.0	40.0	15.0
Nitrite	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Bromide	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Nitrate	0.0	0.1	0.5	1.0	2.0	5.0	7.0		3.5
O-Phoshorous	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Sulfate	0.0	0.5	1.0	5.0	10.0	30.0	50.0	70.0	25.0

Level Not Used

Schedule File: C:\Instrument Archives\Sequences\System 2\97018.sch

Line	Sample	Sample Type	Level	Method
29	CCV W32151 W32277	Sample		w32289.met
31	LCSW X10 W32298	Sample		w32289.met
32	MBW X10	Sample		w32289.met
33	MRLW1-LOQ1 X10 1.05 mgL	Sample		w32289.met
34	339561 X10	Sample		w32289.met
35	MRLW2-LOQ2 X10 1.05 mgL	Sample		w32289.met
36	MDLW1-LOD1 X10 0.53 mgL	Sample		w32289.met
39	CCV W32151 W32277	Sample		w32289.met
40	CCB	Sample		w32289.met

Sample Analysis Report

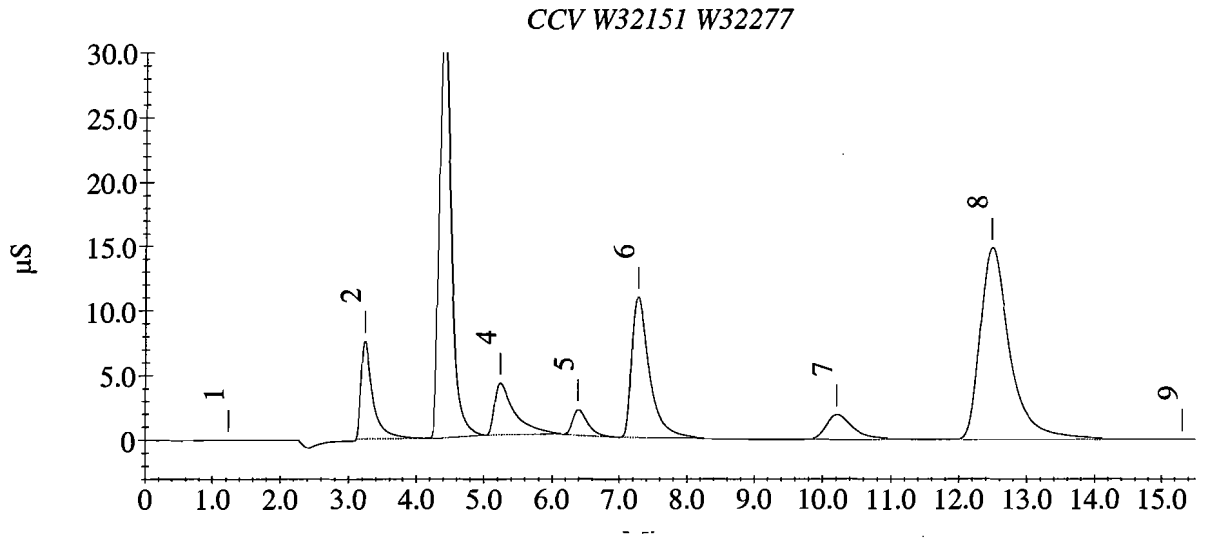
Sample Name : CCV W32151 W32277
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\97018\CCV W32151 W32277_029.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 19:47:14
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
2	Fluoride	3.23	3.1485	906458	75342	
3	Chloride	4.38	13.7842	3966578	312125	
4	Nitrite	5.23	3.4007	815006	39792	
5	Bromide	6.38	3.5645	297252	19475	
6	Nitrate	7.27	3.3397	1981715	108629	
7	O.Phos	10.20	2.6181	552257	19323	
8	Sulfate	12.47	23.8179	4532275	148627	

6.7404



Sample Analysis Report

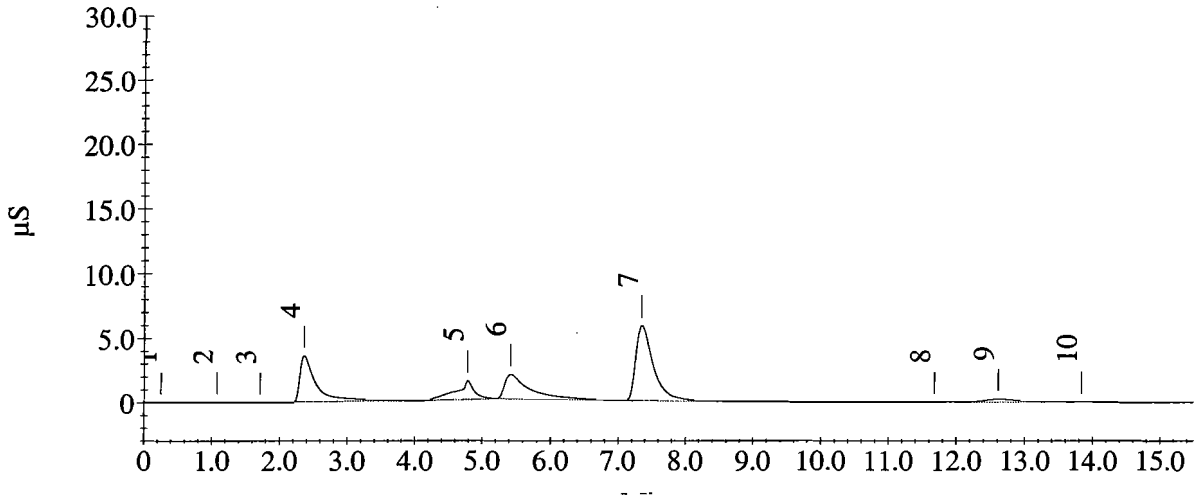
Sample Name : LCSW X10 W32298
Data File Name : c:\instrument archives\data\system 2\97018\LCSW X10 W32298_031.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 20:22:48
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
5	Chloride	4.78	1.7082	277971	14747	
6	Nitrite	5.42	2.1444 \ 4.0351	485100	18875	
7	Nitrate	7.35	1.8907 /	1060703	57994	
9	Sulfate	12.62	1.5473	75607	2227	

LCSW X10 W32298



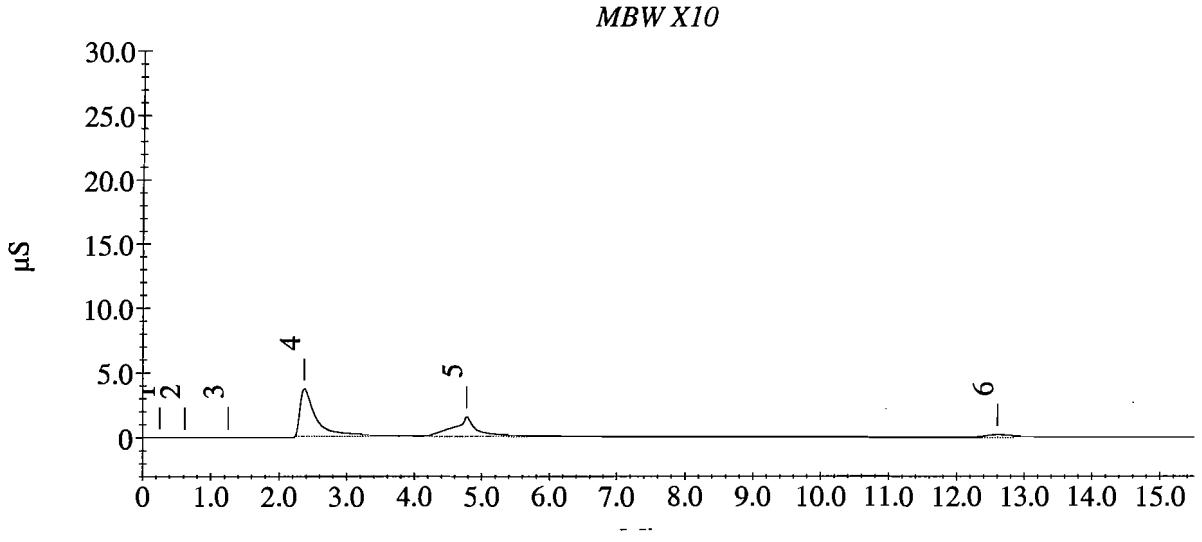
Sample Analysis Report

Sample Name : MBW X10
Data File Name : c:\instrument archives\data\system 2\97018\MBW X10_032.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 20:40:35
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
5	Chloride	4.77	2.0632	386394	15063	
6	Sulfate	12.60	1.4840	62956	2070	



Sample Analysis Report

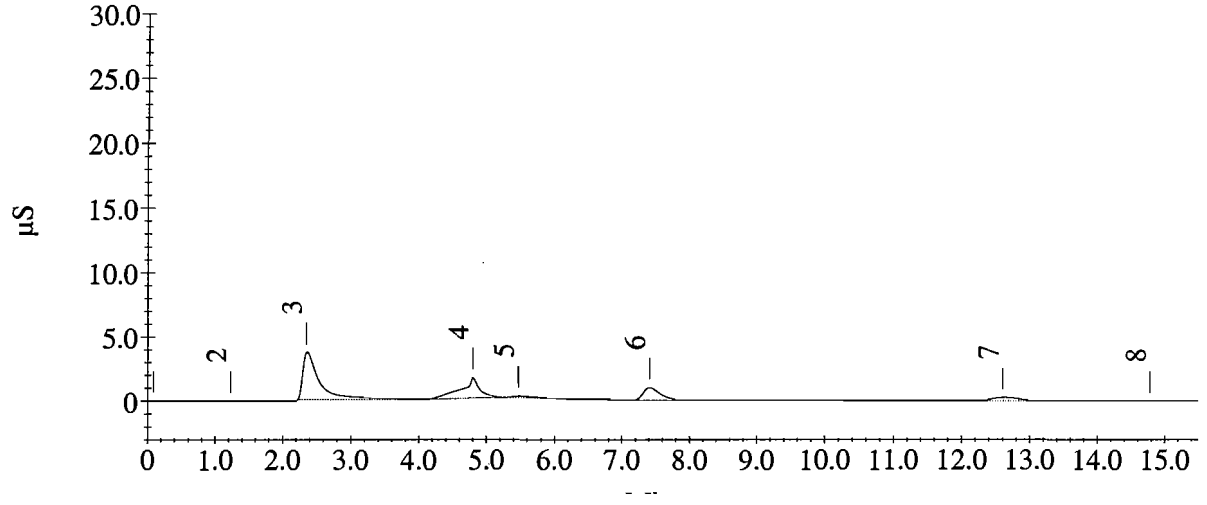
Sample Name : MRLW1-LOQ1 X10 1.05 mgL
Data File Name : c:\instrument archives\data\system 2\97018\MRLW1-LOQ1 X10 1_033.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 20:58:21
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
4	Chloride	4.80	1.7993	305793	15854	
5	Nitrite	5.47	0.4211 \ 0.9146	32613	1241	
6	Nitrate	7.40	0.4935 /	172618	9636	
7	Sulfate	12.60	1.5578	77721	2424	

MRLW1-LOQ1 X10 1.05 mgL



1.1245 mgL

Sample Analysis Report

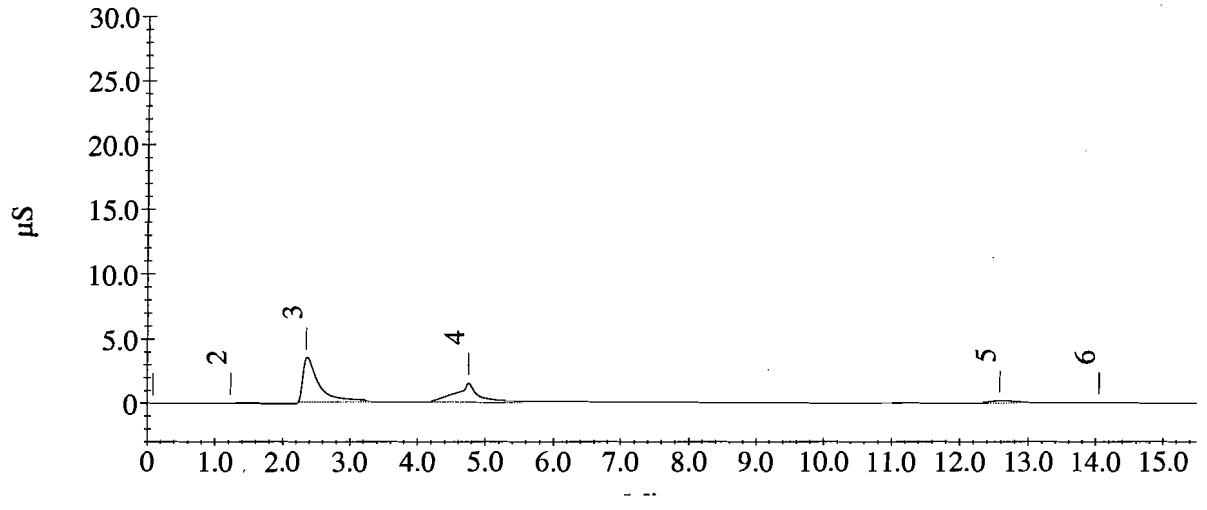
Sample Name : 339561 X10
Data File Name : c:\instrument archives\data\system 2\97018\339561 X10_034.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 21:16:08
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
4	Chloride	4.75	2.0374	378532	15054	
5	Sulfate	12.58	1.4826	62661	1751	

339561 X10



Sample Analysis Report

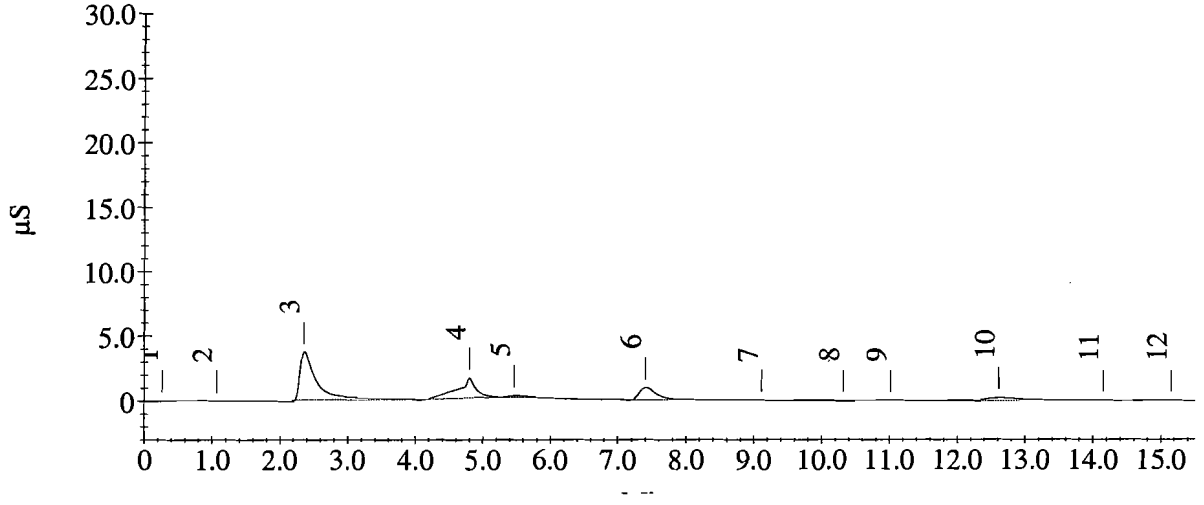
Sample Name : MRLW2-LOQ2 X10 1.05 mgL
Data File Name : c:\instrument archives\data\system 2\97018\MRLW2-LOQ2 X10 1_035.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 21:33:55
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
4	Chloride	4.80	1.7896	302830	15326	
5	Nitrite	5.47	0.3909 \ 0.8854	24668	1277	
6	Nitrate	7.40	0.4925 /	171961	9561	
8	O.Phos	10.32	-0.0130	1516	91	
10	Sulfate	12.62	1.5369	73535	2172	

MRLW2-LOQ2 X10 1.05 mgL



1.0861 mg/L

Sample Analysis Report

(311330)

Sample Name : MDLW1-LOD1 X10 0.53 mgL

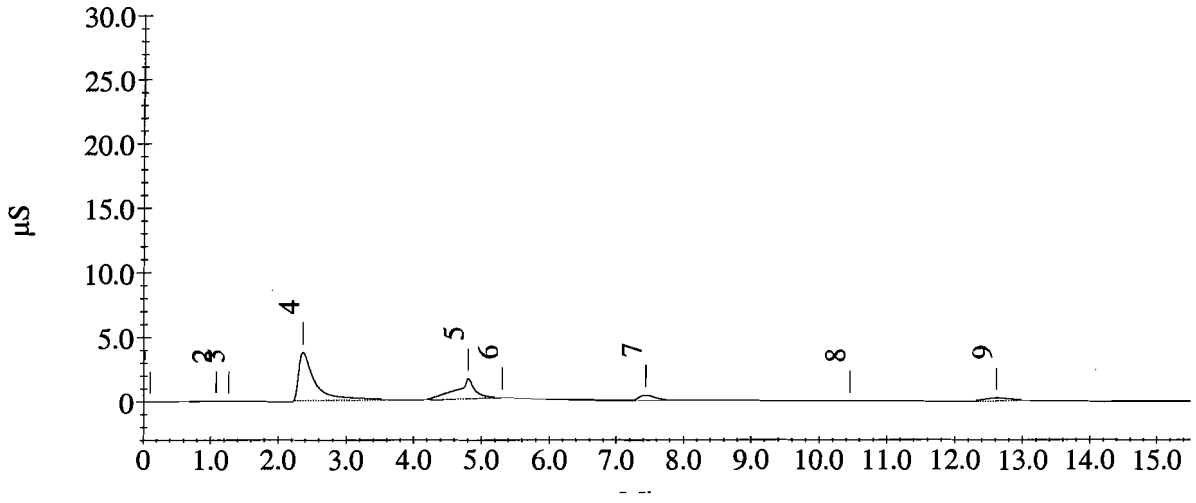
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\97018\MDLW1-LOD1 X10 0_036.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 21:51:43
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
5	Chloride	4.80	1.7787	299497	15271	
6	Nitrite	5.31	0.3353 \ 0.6753	10083	8	
7	Nitrate	7.43	0.3400 /	75067	4253	
9	Sulfate	12.62	1.5324	72636	2297	

MDLW1-LOD1 X10 0.53 mgL



0.8303 mg/L

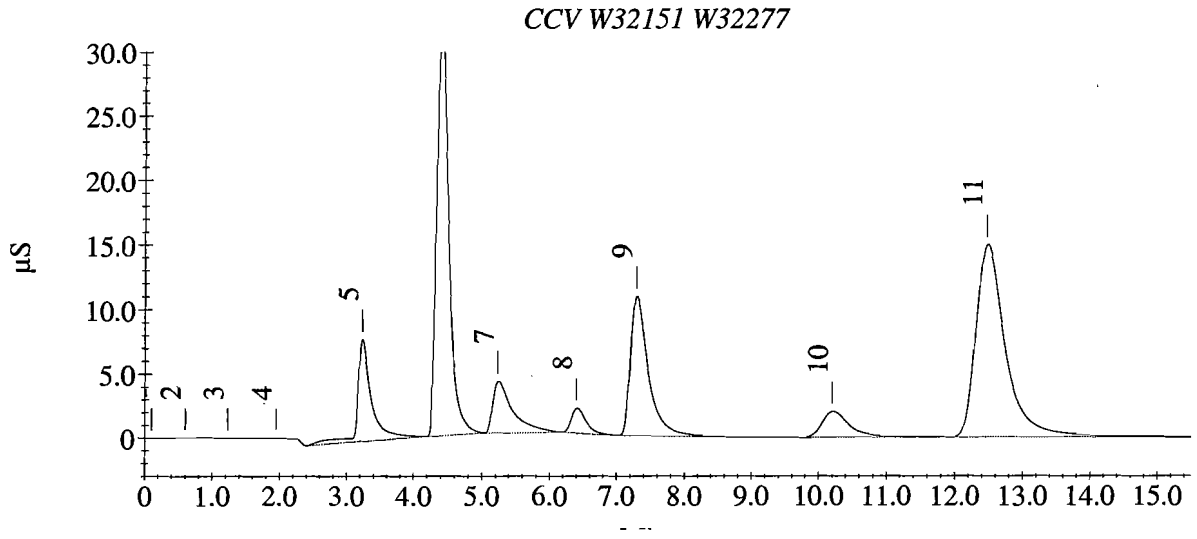
Sample Analysis Report

Sample Name : CCV W32151 W32277
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\97018\CCV W32151 W32277_039.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 22:45:03
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
5	Fluoride	3.23	3.9714	1154289	79308	
6	Chloride	4.40	13.7927	3969179	315416	
7	Nitrite	5.23	3.4433	826174	40146	
8	Bromide	6.40	3.5683 6.8025	297569	19364	
9	Nitrate	7.28	3.3592	1994103	107732	
10	O.Phos	10.20	2.7508	580037	20012	
11	Sulfate	12.47	23.9679	4562298	148826	



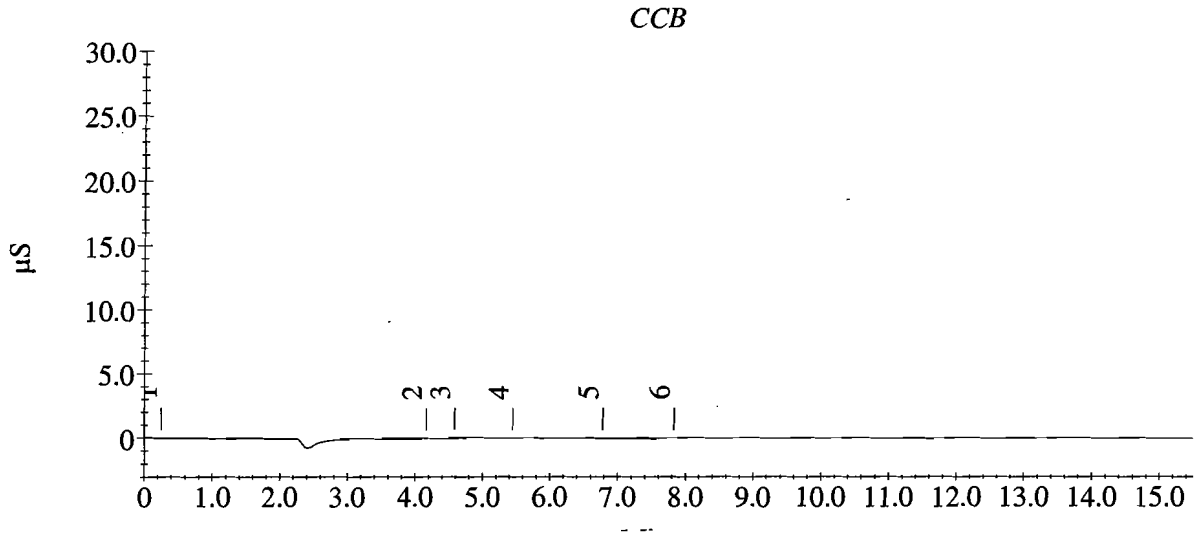
Sample Analysis Report

Sample Name : CCB
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\97018\CCB_040.DXD

Method File Name : c:\instrument archives\methods\system 2\w32289.met
Date Time Collected : 08/25/2013 23:02:50
System Operator : RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Chloride	4.58	0.8170	5741	336	



Flashpoint

DATE: 08/22/13 ANALYST: JJS Run: 916995

METHOD: EPA 1010

#	SAMPLE#	DATE SAMPLED	MATRIX	FLASHPOINT (F°)	COMMENTS
1	LCSW	W32285	QC	80.2	
2	339579	08/15/13	GW	>140.0	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DUPLICATE SUMMARY:

Sample #	MATRIX	Flashpoint	Difference
339579	GW	>140	0

Flashpoint

DATE: 08/22/13 ANALYST: US Run: 960996

METHOD: EPA 1010

	SAMPLE#	DATE SAMPLED	MATRIX	FLASHPOINT (F°)	COMMENTS
1	LCSS	W32285	QC	81.2	
2	339568	08/15/13	S	>140.0	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DUPLICATE SUMMARY:

Sample #	MATRIX	Flashpoint	Difference
339568	S	>140.0	Ø

Daily pH Calibration & Maintenance Logbook

	pH Buffer Reference ID #			----3 Point Calibration----					
Date	Analyst	pH 7	pH 4	pH 10	1st Buffer	2nd Buffer	3rd Buffer	Slope %	Temp. °C	Comments / Maintenance Performed (if any)
5/30/13	VJS	W28233	W28778	W30911	7.01	4.00	10.05	99	21.4	
6/5/13	VJS	W28233	W28778	W30911	7.02	4.00	10.05	99	21.1	
6/14/13	VJS	W28233	W28778	W30911	7.01	4.00	10.04	99	21.7	
6/19/13	SLR	W28233	W28778	W30911	7.05	3.99	10.04	99	21.5	
6/25/13	VJS	W28233	W28778	W30911	7.01	4.00	10.04	99	22.3	
7/3/13	EJC	W28233	W28778	W30911	7.01	4.00	10.05	96	21.5	
7/4/13	VJS	W28233	W28778	W30911	7.01	4.00	10.03	99	22.5	
7/9/13	VJS	W28233	W28778	W30911	7.01	4.00	10.04	100	22.3	
7/12/13	CES	W28233	W28778	W30911	7.01	4.00	10.04	100	22.0	
7/18/13	CES	W28233	W28778	W30911	7.01	4.00	10.03	99	22.9	
7/23/13	CES	W28233	W28778	W30911	7.01	4.00	10.04	98	22.3	
7/31/13	SLR	W28233	W28778	W30911	7.01	4.00	10.04	99	22.1	
8/5/13	CES	W28233	W28778	W30911	7.01	4.00	10.04	99	22.2	
8/13/13	SLR	W28233	W28778	W30911	7.01	4.00	10.04	99	21.8	
8/15/13	SLR	W28233	W28778	W30911	7.01	4.00	10.04	99	22.1	
8/16/13	SLR	W28233	W28778	W30911	7.01	4.00	10.04	99	22.0	
8/22/13	SLR	W28233	W28778	W30911	7.01	4.00	10.04	99	22.4	
8/23/13	SLR	W28233	W28778	W30911	7.01	4.00	10.04	99	22.1	
8/27/13	SLR	W28233	W28778	W30911	7.01	4.00	10.04	100	22.5	
8/29/13	CES	W28233	W28778	W30911	7.01	4.00	10.04	97	23.3	
9/5/13	VJS	W323810	W28778	W30911	7.01	4.00	10.04	101	22.1	

Reviewed By:_____

pH Bench Sheet

Date: 8/16/13 Analyst: SER

Instrument: ***Mettler Toledo Seven Easy*** LIMS#: 96888

Slope (%): 99

	SAMPLE#	MATRIX	pH	TEMP (°C)	COMMENTS:
	Buffer 7		7.07	22.0	
1	339568	S	7.74	22.4	
2	DUP 339568	S	7.74	22.4	
3	339579	GW	8.88	19.3	
4	DUP 339579	GW	8.88	19.5	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
	Buffer 7		7.09	21.3	

Reactive Cyanide Screening

LIMS	96821	Date	8/17/13		Analyst	GS
Sample	Matrix	Sample Amount (g or mL)	Spike	Result	Acceptable	Comments
LCSS	QC	5g	0.1mL W3148	Positive	Y	1N NaOH W32185
MBS	QC	5g		Negative	Y	0.5M H_2SO_4 W32179
LCSW	QC	10mL	0.1mL W3148	Positive	Y	
MBW	QC	10mL		Negative	Y	
339560	S	5.15g		Negative	Y	
DUP 339560	S	5.17g		Negative	Y	
MS 339560	S	5.04g	0.1mL W3148	Positive	Y	
339579	GW	10mL		Negative	Y	
DUP 339579	GW	10mL		Negative	Y	
MS 339579	GW	10mL	0.1mL W3148	Positive	Y	

LCSS 8/19/13

Reactive Sulfide Screening

LIMS	96823	Date	4/17/13		Analyst	GS
Sample	Matrix	Sample Amount (g or mL)	Spike	Result	Acceptable	Comments
LCSS	QC	0.5	0.05mL W32273	Positive	X	50% HCl W32031
MBS	QC	0.5		Negative	X	
LCSW	QC	10mL	0.02mL W32273	Positive	X	
MBW	QC	10mL		Negative	X	
339568	S	0.5278		Negative	X	
Dup 339568	S	0.5036		Negative	X	
MS 339568	S	0.5210	0.05mL W32273	Positive	X	
339579	GW	10mL		Negative	X	
Dup 339579	GW	10mL	0	Negative	X	
MS 339579	GW	10mL	0.02mL W32273	Positive	X	
					GS 4/17/13	

TOTAL SOLIDS (PERCENT)

LIMS #: 96911

Start Date:	**08/20/2013**	**Start Time:**	14:00		**Analyst:**	TPV
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)						0.0%
2)						0.0%
3)						0.0%
4)						0.0%
5)						0.0%
6)						0.0%
7)						0.0%
8)						0.0%
9)						0.0%
10)						0.0%
11)						0.0%
12)						0.0%
13)						0.0%
14)						0.0%
15)						0.0%
16)						0.0%
17)						0.0%
18)						0.0%
19)						0.0%
*20)	339568	470555	2.32	12.92	11.31	84.8%
Dup 20)	339568	465844	2.34	12.93	11.38	85.4%

Dry Weight = Sample + Dish (gms)	*** 2nd Reading,**	11.31	
Wet Weight = Sample + Dish (gms)		Set RPD:	1%
Balance: BD-202			
		*mg Difference	0

Stop Date:	08/21/2013
Stop Time:	10:25

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

INORGANICS
LOGBOOK
DOCUMENTS

WANIONS IC QSM Solids Analytical Run
96963 on 8/27/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	ANALYTE	SAMPLE DATE:		QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	346864								WANIONS IC QSM Solids				
		Nitrate Nitrogen			ICV								
		Nitrite Nitrogen			ICV								
	346865								WANIONS IC QSM Solids				
		Nitrate Nitrogen			ICB								
		Nitrite Nitrogen			ICB								
	341584								WANIONS IC QSM Solids				
		Nitrate Nitrogen			CCV					0			
		Nitrite Nitrogen			CCV					0			
	340601								ANION IC QSM				
		Nitrate Nitrogen			LCSS					45550			
		Nitrite Nitrogen			LCSS					45550			
	340600								ANION IC QSM				
		Nitrate Nitrogen			MBS					45550			
		Nitrite Nitrogen			MBS					45550			
99335	339568		8/15/2013	0835		ECC		RVAAP	ANION IC QSM		S	**4**	
		Nitrate Nitrogen								45550			
		Nitrite Nitrogen								45550			
	340602		8/15/2013	0835					ANION IC QSM				
		Nitrate Nitrogen			DUP	339568				45550			
		Nitrite Nitrogen			DUP	339568				45550			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WANIONS IC QSM Solids Analytical Run
96963 on 8/27/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	ANALYTE	SAMPLE DATE:		QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	340603		8/15/2013	0835					ANION IC QSM				
		Nitrite Nitrogen			MSS	339568				45550			
		Nitrate Nitrogen			MSS	339568				45550			
	340604		8/15/2013	0835					ANION IC QSM				
		Nitrate Nitrogen			MSDS	340603				45550			
		Nitrite Nitrogen			MSDS	340603				45550			
	341586								WANIONS IC QSM Solids				
		Nitrate Nitrogen			CCV								
		Nitrite Nitrogen			CCV								
	341587								WANIONS IC QSM Solids				
		Nitrate Nitrogen			CCB								
		Nitrite Nitrogen			CCB								

22

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 9/9/2013

Prep Batch **45,550** Date Prepped: 8/21/2013 Prepped By MDS

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	340600	MBS		ANION IC QSM	SOLID	50	5.0			
	340601	LCSS		ANION IC QSM	SOLID	50	5.00			
99335	339568			ANION IC QSM	SOIL	50	5.00		Y	
	340602	DUP	339568	ANION IC QSM	SOIL	50	5.00			
	340603	MSS	339568	ANION IC QSM	SOIL	50	5.00			
	340604	MSDS	340603	ANION IC QSM	SOIL	50	5.01			

Notes:_____

Data Validation Checklist

LIMS #: 96972, 96963, 96959	Method: Anions by Ion Chromatography 300.0/9056			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
08/21/13	MDS	RD	8/22/13	Yes ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Were the samples analyzed within hold time?	28 days for Cl, F, SO_4;14 days for preserved NO_2+NO_3; 48 hours for O.Phos, and unpreserved NO_2 and NO_3	✓		✓		
2. Was the calibration performed using the required number of standards?	Minimum three plus a blank	✓		✓		
3. Is the standard prep log number noted on the analytical report bench sheet?	---	✓		✓		
4. Was the correlation coefficient acceptable?	≥ .995	✓		✓		
5. Were the ICV and ICB run immediately after the calibration check standard?	---	✓		✓		
6. Was the ICV recovery acceptable?	90 – 110 % or contract/program specific	✓		✓		
7. Was the ICB result acceptable?	< LOD or contract/program specific	✓		✓		
8. Were the CCV's and the CCB's analyzed at the required frequency?	1 / 10 samples or contract/program specific	✓		✓		
9. Were the CCV recoveries acceptable?	90 – 110 % or contract/program specific	✓		✓		
10. Were the CCB results acceptable?	< LOD or program/project specific	✓		✓		
11. Was the MB analyzed at the required frequency?	1 / 20 samples or contract/program specific	✓		✓		
12. Were the MB results acceptable?	< LOD or contract/program specific	✓		✓		
13. Was a LCS run at the required frequency?	1 / 20 samples or contract/program specific	✓		✓		

15. Was the LCS recovery acceptable?	Within in-house or contract/program specific limits	✓		✓		
16. Was the LCS used before the indicated expiration date?	---	✓				
17. Were the MS and MSD (when required) prepared at the required frequency?	1per 20 samples per matrix or contract/program specific	✓				
18. Were the MS and MSD (when required) recoveries acceptable?	Within In-house or contract/program specific limits	✓				
19. Was the RPD between the MS and MSD (when required) acceptable?	Within in house or contract/program specific limits	✓				
20. Was a sample duplicate prepared at the required frequency?	Contract/program specific or 1 per 20 samples (1 / 10 for SDWA samples)	✓				
21. Was the duplicate within precision limits?	Within in-house or contract/program specific limits		✓		✓	Sample 341308 F < LOD, so Dup Failed no Flag Nitrate RPD high on # 339568 = "Y"
22. Were all chromatograms checked to ensure accurate peak identification?	---	✓		✓		
23. Are all samples on the job lists accounted for?	---	✓				

WNITROCELLULOSE IC Analytical Run
97019 on 8/27/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	ANALYTE	SAMPLE DATE:		QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	346241							WNITROCELLULOSE IC				
		Nitrocellulose			ICV							
	346242							WNITROCELLULOSE IC				
		Nitrocellulose			ICB							
	346231							WNITROCELLULOSE IC				
		Nitrocellulose			CCV							
	342394							NITROCELLULOSE QSM				
		Nitrocellulose			LCSW				45578			
	342393							NITROCELLULOSE QSM				
		Nitrocellulose			MBW				45578			
	346228							WNITROCELLULOSE IC				
		Nitrocellulose			MRLW							
99335	339561		8/15/2013	0930		ECC	RVAAP	NITROCELLULOSE QSM		GW	**4**	
		Nitrocellulose							45578			
	346229							WNITROCELLULOSE IC				
		Nitrocellulose			MRLW							
97807	311330		6/10/2013					NITROCELLULOSE QSM		GW	**1**	
		Nitrocellulose							45578			
	346230							WNITROCELLULOSE IC				
		Nitrocellulose			MDLW							
	342395							NITROCELLULOSE QSM				
		Nitrocellulose							45578			
	346232							WNITROCELLULOSE IC				
		Nitrocellulose			CCV							

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WNITROCELLULOSE IC Analytical Run
97019 on 8/27/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	ANALYTE	SAMPLE DATE:	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	346233						WNITROCELLULOSE IC				
		Nitrocellulose		CCB							

13

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 08/22/2013

Prep Batch **45,578** Date Prepped: 08/20/2013 Prepped By BMS

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial	List	Notes
	342393	MBW		NITROCELLULOSE	LIQUID	15.0		950			
	342394	LCSW		NITROCELLULOSE	LIQUID	15.0		950			
99335	339561			NITROCELLULOSE	GROUND WATER	15.0		940	N		

LCSW-(Spiked 0.95L DI H_2O with 1.0mL of W32298

LODW/MDLWV - Spiked 0.95L of DI (0.53mg/L) H_2O with 0.1mL of W32298

LOQW/MRLW - Spiked 0.95L of DI (1.05mg/L) H_2O with 0.2 mL of W32298.

Notes:

LIMS #: 97018, 97019	Method: Nitrocellulose by Ion Chromatography (Nitrite & Nitrate)			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
8/25/13	BMS/RLD	RLD	8/27/13	(Yes) ... No

Instructions: Complete one checklist per *analytical run.* Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Was the calibration performed using the required number of standards?	Minimum three plus a blank	✓		✓		
2. Is the standard prep log number noted on the analytical report bench sheet?	---	✓		✓		
3. Was the correlation coefficient acceptable?	≥ .995	✓		✓		
4. Were the ICV and ICB run immediately after the calibration check standard?	---	✓		✓		
5. Was the ICV recovery acceptable?	90 – 110 % or contract/program specific	✓		✓		
6. Was the ICB result acceptable?	< LOD or contract/program specific	✓		✓		
7. Were the CCV's and the CCB's analyzed at the required frequency?	1 / 10 samples or contract/program specific	✓		✓		
8. Were the CCV recoveries acceptable?	90 – 110 % or contract/program specific	✓		✓		
9. Were the CCB results acceptable?	< LOD or program/project specific	✓		✓		
10. Was the MB analyzed at the required frequency?	1 / 20 samples or contract/program specific	✓		✓		
11. Were the MB results acceptable?	< LOD or contract/program specific	✓		✓		
12. Was a LCS run at the required frequency?	1 / 20 samples or contract/program specific	✓		✓		
13. Was the LCS recovery acceptable?	Within in-house or contract/program specific limits	✓		✓		
14. Was the MS and/or MSD (when required) prepared at the required frequency?	1per 20 samples per matrix or contract/program specific	✓		✓		N/A for H2O Sample

15. Was the MS (and/or MSD) recovery acceptable?	Within In-house or contract/program specific limits		✓		✓	
16. If applicable was the RPD between the MS and MSD acceptable?	Within in house or contract/program specific limits	✓		✓		
17. Was a sample duplicate prepared at the required frequency?	Contract/program specific or 1 per 20 samples (1 / 10 for SDWA samples)	NA		NA		
18. Was the duplicate within precision limits?	Within in-house or contract/program specific limits	↓		↓		
19. Were all chromatograms checked to ensure accurate peak identification?	---	✓		✓		
20. Are all samples on the job lists accounted for?	---	✓		✓		

DX120 Run Log

Start Date	Start Time	End Date	End Time	Analyst	LIMs Run #	System (1 or 2)	Calibration ID #	Data File	COMMENTS (Spike ID #s)	Total Conductivity	Pressure (PSI)	Flow (mL/min)
8/15/13	0828	08/15/13	1339	MOS	96775	1	LLW32198	081513	W32174	17.58	1735	1.02
8/15/13	0834	08/16/13	0046	MOS	96747, 96773 96774, 96785	2	W29226A	96747	W32071, W32072	17.72	1650	1.00
8/16/13	0841	08/16/13	2220	MOS	96785, 96813 96812	2	W29226A	081613B	W32286 W32287	17.52	1580	1.01
8/16/13	1010	08/17/13	01:39	MOS	96811	1	~~LL W25329~~ LL W25329 MOS 08/19/13	081613	W32174	17.55	1665	1.00
8/19/13	1031	8/19/13	22:49	MOS	96867	2	W29226A	96867	W32286 W32287	17.50	1564	1.01
8/20/13	0902	8/20/13	2107	MOS	96875	2	W32289	96875	W32286 W32287	17.57	1542	1.01
8/20/13	0904	8/20/13	1356	MOS	96921	1	LL W25329	082013	W32174	17.79	1657	1.00
8/21/13	0832	8/21/13	1416	MOS	96962	1	LL W25329	082113	W32174	17.79	1623	1.00
8/21/13	0830	8/21/13	1643	MOS	96972, 96963, 96959, 96935...	2	W32289	96935	W32286 W32287	17.54	1573	1.01
8/22/13	0827	8/22/13	1716	MOS	96964, ~~96965~~ MOS 08/22/13 97002	2	W32289	96964	W32286 W32287	17.55	1575	1.01
8/22/13	0908	8/22/13	1743	MOS	97005	1	LL W25329	082213	W32174	17.72	1501	0.92
8/23/13	08:20	8/23/13	16:05	MOS	96965	2	W32289	96965	W32286 W32287	17.52	1572	1.01
8/23/13	08:24	8/23/13	12:25	MOS	97065	1	LL W25329	082313	W32174	17.70	1512	0.90
8/25/13	10:59	8/25/13	23:02	RD	97018, 97019	2	W32289	97018	W32298	17.59	1575	1.01
8/26/13	08:10	8/26/13	17:22	MOS	97136, 97154	2	W32289	97136	W32286 W32287	17.59	1579	1.01
8/27/13	08:27	8/27/13	1335	MOS	97207	1	LL ~~W25329~~ W25329 MOS 08/27/13	082713	W32174	17.65	1424	0.91
8/27/13	09:04			MOS	97189, 97214	2	W32289	97189	W32286 W32287	17.64	1535	1.01

New Calibration Info	
System 1 Calib. (ID/Date)	
Flow (mL/min) Press. (psi)	
Analyte	**Ret. Time**
Fluoride	
Chloride	
Nitrite	
Bromide	
Nitrate	
o-Phos.	
Sulfate	
System 2 Calib. (ID/Date)	W32289 08/16/13
Flow (mL/min) Press. (psi)	1.01 1580
Analyte	**Ret. Time**
Fluoride	
Chloride	
Nitrite	
Bromide	
Nitrate	
o-Phos.	
Sulfate	

Reviewed By: _____

DX120 Run Log

Start Date	Start Time	End Date	End Time	Analyst	LIMs Run #	System (1 or 2)	Calibration ID #	Data File	COMMENTS (Spike ID #s)	Total Conductivity	Pressure (PSI)	Flow (mL/min)
8/15/13	0828	08/15/13	1339	MOS	96775	1	LLW32198	081513	W32174	17.58	1735	1.02
8/15/13	0834	08/16/13	0046	MOS	96747, 96773 96774, 96785	2	W29226A	96747	W32071, W32072	17.72	1650	1.00
8/16/13	0841	08/16/13	2220	MOS	96785, 96813 96812	2	W29226A	081613B	W32286 W32287	17.52	1580	1.01
8/16/13	1010	08/17/13	01:39	MOS	96811	1	~~LL W25329~~ LL W25329 MOS 08/19/13	081613	W32174	17.55	1665	1.00
8/19/13	1031	8/19/13	22:49	MOS	96867	2	W29226A	96867	W32286 W32287	17.50	1564	1.01
8/20/13	0902	8/20/13	2107	MOS	96875	2	W32289	96875	W32286 W32287	17.57	1542	1.01
8/20/13	0904	8/20/13	1356	MOS	96921	1	LL W25329	082013	W32174	17.79	1657	1.00
8/21/13	0832	8/21/13	1416	MOS	96962	1	LL W25329	082113	W32174	17.79	1623	1.00
8/21/13	0830	8/21/13	1643	MOS	96972, 96963, 96959, 96935	2	W32289	96935	W32286 W32287	17.54	1573	1.01
8/22/13	0827	8/22/13	1716	MOS	96964, ~~96965~~ MOS 08/22/13 97002	2	W32289	96964	W32286 W32287	17.55	1575	1.01
8/22/13	0908	8/22/13	1743	MOS	97005	1	LL W25329	082213	W32174	17.72	1501	0.92
8/23/13	08:20	8/23/13	16:05	MOS	96965	2	W32289	96965	W32286 W32287	17.52	1572	1.01
8/23/13	08:24	8/23/13	12:25	MOS	97065	1	LL W25329	082313	W32174	17.70	1512	0.90
8/25/13	10:59	8/25/13	23:02	RD	97018, 97019	2	W32289	97018	W32298	17.59	1575	1.01
8/26/13	08:10	8/26/13	17:22	MOS	97136, 97154	2	W32289	97136	W32286 W32287	17.59	1579	1.01
8/27/13	08:27	8/27/13	1335	MOS	97207	1	LL ~~W25329~~ W25329 MOS 08/27/13	082713	W32174	17.65	1424	0.91
8/27/13	09:04			MOS	97189, 97214	2	W32289	97189	W32286 W32287	17.64	1535	1.01

New Calibration Info	
System 1 Calib. (ID/Date)	
Flow (mL/min) Press. (psi)	
Analyte	**Ret. Time**
Fluoride	
Chloride	
Nitrite	
Bromide	
Nitrate	
o-Phos.	
Sulfate	
System 2 Calib. (ID/Date)	W32289 08/16/13
Flow (mL/min) Press. (psi)	1.01 1580
Analyte	**Ret. Time**
Fluoride	
Chloride	
Nitrite	
Bromide	
Nitrate	
o-Phos.	
Sulfate	

Reviewed By: _____

W32365 mos 09/03/13
LL Ophos ICV/LCS (0.1 mg/L)
Into a 100 ml volumetric flask pipette 0.01ml Tphos ICV/LCS stock standard (1000mg/L) W 30897 and fill to volume with Milli Q H_2O.
Exp (One month): 10/03/13

W32366 CES 9/3/13
Phenolics ICAL Working (1000 µg/L)
Into a 100 mL volumetric flask pipette 0.1mL Phenol ICal/CCV Stock (1000mg/L) W 31972 and fill to volume with DI H_2O. Exp. (one week): 9/10/18

W32367CCS 9/3/13
Phenolics CCV (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICal/CCV Stock (1000mg/L) W 31972 and fill to volume with DI H_2O. Exp. (one week): 9/10/13

W32368CCS 9/3/13-9/3/13
Phenolics LCS (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICV/LCS Stock (1000mg/L) W 30886 and fill to volume with DI H_2O. Exp. (one week): 9/10/13

W32369 CCS 9/3/13
TPhos 8500 Molybdate
Into a 1 L volumetric flask volumetrically add 213 mL Ammonium Molybdate W 32235 and 72 mL Antimony Potassium Tartrate W 32236 then dissolve 22.8g NaOH W 32029 and fill to volume with DI H_2O. Exp. (one month): 10/3/13

W32370CCS 9/3/13
TPhos 8500 Ascorbic
Into a 1 L volumetric flask dissolve 70g ascorbic acid W 32326 and 1.0 g SDS W 32316 and fill to volume with DI H_2O. Exp. (two days): 9/5/13

W32371 9/3/13 mos
IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W32372 CCS 9/3/13
Sulfide LCS (5.0mg/L): Add 1 mL sodium sulfide stock W32273 into a 200mL vol. flask + bring to vol. w/ DI. Exp: 9/4/13

W32373 CCS 9/3/13
Rosalic Acid Into 4mL 1N NaOH W32195 dissolved 0.2g Rosalic Acid W23623 + 16mL Milli Q H_2O exp 10/3/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W32357 CCS 8/29/13 Orth LOCS – Into a 50mL vol pipetted 2.5mL CW32571 & filled to vol w/ W32353. Final vol 100mL TVF 250 mg/L exp 9/29/13

W32358 8/29/13 TKN/TPHOS LCS (10mg/L NH_3 as N and PO_4^{-3} as P)
Into a 1L volumetric flask pipetted 10mL TPHOS ICV/LCS Stock Standard 1000mg/L W 30897 and 10mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 31928 and brought to volume with DI H_2O. EXP(1 month): 9/29/13

W32359 8/29/13 TKN/TPHOS Spiking Solution (200mg/L NH_3 as N and PO_4^{-3} as P)
Into a 100mL volumetric flask pipetted 20mL TPHOS ICV/LCS Stock Standard 1000mg/L W 30897 and 20mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 31926 and brought to volume with DI H_2O. EXP(1 month): 9/29/13

W32360 CCS 8/30/13 Chloramine-T Reagent
Into a 500 mL volumetric flask dissolved 2 g chloramine-T W 30230 and brought to volume with DI H_2O. EXP (24hr): 8/31/13

W32361 8/30/13 Methyl Orange Reagent
Into a 1 L volumetric flask, volumetrically added 100 ml methyl orange solution W 31396 and brought to volume with CO_2-free DI H_2O.
EXP (1 month): 9/30/13

W32362 CCS 8/30/13 KHP Buffer (pH 3.1)
Into a large beaker dissolve 2.5g potassium hydrogen phthalate (KHP) W 29079 in 450 ml CO_2-free DI water. Add 42.5ml of 0.1 M HCL W 31851 and adjust pH to 3.1± 0.05.
EXP (one week): 9/6/13

W32363 MDS 09/03/13 09/03/13
IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W ~~30512~~ 31998 MDS 09/03/13 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 10/3/13

W32364 MDS 09/03/13 LL Ophos Spike (30 mg/L)
Into a 100 ml volumetric flask pipette 3.0 ml Tphos ICV/LCS stock standard (1000mg/L) W 30897 and fill to volume with Milli Q H_2O.
Exp (One month): 10/03/13

Continued on Page

Read and Understood By

9/3/13 OK/

Signed Date Signed Date

W32326 CES Ascorbic - Fisher cat # BP351-500 lot # 127267
9/26/13

W32327 TKN Hypochlorite
Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 321916 and fill to volume with DI H_2O. Exp. (one day): 8/27/13
9/26/13

W32328 TKN Buffer Reagent
Into a 2L volumetric flask dissolved 40g EDTA W 31186, 70g sodium phosphate dibasic heptahydrate W 32152, and 100g NaOH W 32024 and brought to volume with DI H_2O. EXP(1 month): 9/26/13
9/26/13

W32329 Sodium Salicylate-Nitroprusside Color Reagent
Into a 1L volumetric flask dissolved 150g sodium salicylate W 32304 and 1g sodium nitroprusside W 31985 and brought to volume with DI H_2O.
EXP(1 month): 9/26/13
9/26/13

W32330 IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13
08/26/13

W32331 TPhos Cupric Ascorbic
Into a 250 mL volumetric flask dissolve 15g Ascorbic Acid W 323216 and 0.25g Sodium Dodecyl sulfate (SDS) W 323116 and fill to volume with DI H_2O.
Exp.(one day): 8/27/13
9/26/13

W32332 TPhos Cupric Molybdate Color Reagent
Into a 500mL volumetric flask volumetrically add 17.5mL H_2SO_4 W 32253, 106.5 mL stock Ammonium Molybdate W 32236, and 36 mL stock Antimony Potassium Tartrate W 32316 and fill to volume with DI H_2O.
Exp (one month): 9/26/13
9/26/13

W32333 NH_3 Sodium Hypochloride
8/27/13
Into a 500mL volumetric flask volumetrically added 250mL Bleach W 32186 and brought to volume with DI H_2O. EXP(24 hours): 8/28/13

CES 8/27/13

Continued on Page

Read and Understood By

8/27/13 CES

Signed | Date | Signed | Date

W32310 B.O.D. Standard, NCL, Lot# BKD1305288B1, Exp 5/2014
LJS 8/21/13

W32311
LJS/sel
8/21/13

Cupric Digestion Solution
Into a 2L volumetric flask dissolve 268g potassium sulfate W 29696 and 14.6g copper sulfate W 31625 and slowly volumetrically add 268 mL H_2SO_4 W 32253 and fill to volume with DI H_2O. Exp. (one month): 9/21/13

W32312
8/22/13
mal

Cr^{+6} Water DPC Color Reagent
Into a 1 L volumetric flask dissolve 0.40g s-diphenylcarbazide (DPC) W 31013 in 200mL 2-propalnol W 31499. Add 720mL DI H_2O and then 80 mL H_2SO_4 W 32253 and fill to volume with DI H_2O. Exp. (one month): 8/9/22/13
8-22-13 mal

W32313
8/22/13
mal

Cr^{+6} Water Color Correction Reagent
Into a 1 L volumetric flask volumetrically add 200mL 2-propalnol W 31499, 720mL DI H_2O, and 80 mL H_2SO_4 W 32253. Fill to volume with DI H_2O. Exp. (one ~~year~~ month): 9/22/13
8-22-13 mal

W32314
8/22/13
mal

TPhos 8500 Molybdate
Into a 1 L volumetric flask volumetrically add 213 mL Ammonium Molybdate W 32235 and 72 mL Antimony Potassium Tartrate W 32236 then dissolve 22.8g NaOH W 32029 and fill to volume with DI H_2O. Exp. (one month): 8/9/23/13
8/22-13 mal

W32315
8/22/13
mal

TPhos 8500 0.72N Sulfuric Acid Carrier
Into a 2L volumetric flask volumetrically add 76 mL trace metal grade H_2SO_4 W 32066 and dissolve 10g NaCl W 29369 and 2g SDS W _____ and fill to volume with DI H_2O. Exp. (one month): 9/22/13

W32316 mal Sodium Dodecyl Sulfate Fisher Cat# BP166-100
8-22-13 Lot# 134080

W32317
8-22-13
mal

$NO_2 + NO_3$ Buffer
Into a 1 L volumetric flask dissolve 85g ammonium chloride W 31507 and 1g EDTA W 31186 and fill to volume with DI H_2O and degas. Adjust pH to 8.5 with 15 N NaOH W 30231. Exp (one month): 9-22-13

W32318
8/26/13
MDS

IC CCV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC CCV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask piepetted 3.5 mL 1000 mg/L Nitrite W 30512 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 9/26/13

Continued on Page

Read and Understood By

9/27/13 CG

Signed Date Signed Date

W32292 08/19/13 mm

IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 n Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard t a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 1 mg/L Chloride

Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride W 29804 and brought to volume with Milli-Q DI H_2O.
EXP (1 Month): 9/7/13

W32293 8-20-13 mm

TPhos 8500 ICal (20 mg/L)
Into a 100 mL volumetric flask pipette 2mL PO_4 ICal/CCV stock (1000 mg/L) W 30355 and fill to volume with H_2SO_4 diluent W 32231.
Exp. (one month): 9-20-13

W32294 8-20-13 mm

TPhos 8500 CCV (8 mg/L)
Into a 100 mL volumetric flask pipette 0.8mL PO_4 Ical/CCV stock (1000 mg/L) W 30355 and fill to volume with H_2SO_4 diluent W W32231.
Exp. (one month): 9-20-13

W32295 8-20-13 mm

TPhos 8500 ICV (8 mg/L)
Into a 100 mL volumetric flask pipette 0.8mL PO_4 ICV/LCS stock (1000 mg/L) W 30897 and fill to volume with H_2SO_4 diluent W W32231.
Exp. (one month): 9-20-13

W32296 8-20-13 mm

TPhos 8500 LCS (4 mg/L)
Into a 100 mL volumetric flask pipette 0.4mL PO_4 ICV/LCS stock (1000 mg/L) W 30897 and fill to volume with H_2SO_4 diluent W W32231.
Exp. (one month): 9-20-13

W32297 8-20-13 mm

TPhos 8500 Ascorbic
Into a 1 L volumetric flask dissolve 70g ascorbic acid W 32065 and 1.0 g SDS W 30340 and fill to volume with DI H_2O. Exp. (two days): 8-22-13

W32298 8/20/13

Nitrocellulose Spiking Std. - Into a 100 mL volumetric Flask, add 0.5007 g of W31626 (Dried Nitrocellulose) & brought to volume with acetone (JT Baker, Cat # 9254-03, Lot # 0000033264)
Exp. 8/20/14 Conc. = 5007 mg/L

W32299 VS 8/20/13

Phenolics ICAL Working (1000 µg/L)
Into a 100 mL volumetric flask pipette 0.1mL Phenol ICal/CCV Stock (1000mg/L) W 31872 and fill to volume with DI H_2O. Exp. (one week): 8/27/13

Continued on...

Read and Understood By

8/27/13

Signed Date Signed

W32285 p-Xylene: Fisher Scientific C5082-500; Lot # 8/16/13 MS 131175,

W32286 08/16/13 mos

IC Nitrite and Fluoride Spike Standard (64 mg/L Nitrite and 32 mg/L Fluoride)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000 mg/L Nitrite W 30512 and 3.2 mL 1000 mg/L Fluoride W 29818 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 9/10/13

W32287 08/16/13 mos

IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 31339, Nitrate W 30659, and Phosphate W 30355 and 25.6 mL 1000 mg/L Chloride W 31340 and Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 9/16/13

W32288 08/16/13 mos

IC ICAL Mixed Standard (50 mg/L):
Into a 100 mL volumetric flask pipetted 5 mL of 1000 mg/L Nitrite W 30512, Fluoride W 29818, Bromide W 31339, Nitrate W 30659, and Phosphate W 30355 and brought to volume with Milli-Q DI H_2O.
EXP (48 Hours): 9/18/13

W32289 08/16/13 mos

IC ICAL
Prepared in 100 mL volumetric flasks and brought to volume with Milli-Q DI H_2O.

	1	2	3	4	5	6	7	8
mLs Mixed Std 50mg/L W	0	0.2	1.0	2.0	4.0	10.0	14.0	28.0
mLs Chloride 1000mg/L W	0	0.05	0.1	0.5	1.0	2.0	3.0	4.0
mLs Sulfate 1000mg/L W	0	0.05	0.1	0.5	1.0	3.0	5.0	7.0

EXP (48 Hours): 9/18/13

W32290 08/19/13 mos

IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W32291 08/19/13 mos

LL Ophos CCV (0.1 mg/L)
Into a 200 ml volumetric flask pipette 0.02ml Tphos CCV stock standard (1000mg/L) W 30355 and fill to volume with Milli Q H_2O.
Exp (One month): 9/19/13

Continued on Page

Read and Understood By

9/27/13 MS

Signed Date Signed Date

W32276 8/14/13 mnl

TPhos 8500 Ascorbic

Into a 1 L volumetric flask dissolve 70g ascorbic acid W 32065 and 1.0 g SDS W 30340 and fill to volume with DI H_2O. Exp. (two days): 8/16/13

W32277 mnl 08/14/13

IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 29818, Phosphate W 30355, Bromide W 31339, and Nitrate W 30659, 15 ml 1000 mg/L Chloride W 31340, and 25 ml 1000 mg/L Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): ~~8/14/13~~ 9/10/13 mnl 08/14/13

W32278 mnl 8-14-13

TPhos 8500 Molybdate

Into a 1 L volumetric flask volumetrically add 213 mL Ammonium Molybdate W 32235 and 72 mL Antimony Potassium Tartrate W 32236 then dissolve 22.8g NaOH W 32029 and fill to volume with DI H_2O. Exp. (one month): 9-14-13

W32279 US 8/15/13

Chloramine-T Reagent

Into a 500 mL volumetric flask dissolved 2 g chloramine-T W 30230 and brought to volume with DI H_2O. EXP (24hr): 8/16/13

W32280 US 8/15/13

TKN Hypochlorite

Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 32186 and fill to volume with DI H_2O. Exp. (one day): 8/16/13

W32281 US 8/15/13

0.8M Sodium Hydroxide

Into a 1L volumetric flask dissolved 32g NaOH W 32029 and brought to volume with DI H_2O. EXP(1 month): 9/16/13

W32282 mnl 8/15/13

TPhos 8500 0.72N Sulfuric Acid Carrier

Into a 2L volumetric flask volumetrically add 76 mL trace metal grade H_2SO_4 W 32066 and dissolve 10g NaCl W 29369 and 2g SDS W 30340 and fill to volume with DI H_2O. Exp. (one month): 9/15/13

W32283 mnl 9/15/13

TPhos 8500 Digestion Solution #2

Into a 2L volumetric flask dissolve 52g potassium persulfate W 32116 and fill to volume with DI H_2O. Exp. (one month): 9/15/13

W32284 mnl 8-15-13

TPhos 8500 Digestion Solution #1

Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W 32066 and fill to volume with DI H_2O. Exp. (one month): 9-15-13

Read and Understood By

8/27/13 CG

Signed | Date | Signed | Date

W32252
CES 8/12/13

Potassium Dichromate Digestion Solution
Into a 2L volumetric flask dissolve 66.6g mercuric sulfate W 29723 in about 500mL DI H_2O. Volumetrically add 334mL H_2SO_4 W 32253 and dissolve 20.42g potassium dichromate W 19802 then fill to volume with DI H_2O.
Exp (one year): 8/12/14

W32253 ~~Mercuric Sulfate - J.T Baker Cat~~
CES 8/12/13 95% 8/12/13

W32253CS Sulfuric Acid - Fisher Cat# A300C-212 lot #
8/12/13 127859

W32254 BMS 08/13/13 TOCW Ical./CCV Stock (1000mg/L): Into a 100mL vol., dissolved 0.2128g of KHP (W1952) and brought to volume with Milli Q H_2O. Exp. 02/13/14.

W32255 BMS 08/13/13 TOCW ICV/LCS Stock (1000mg/L): Into a 100mL vol., dissolved 0.2128g of KHP (W29079) and brought to volume with Milli Q H_2O. Exp. 02/13/14.

W32256 BMS 08/13/13 TOCW CCV Std. (50mg/L): Into a 100mL vol., pipetted 5.0mL of W32254 and brought to volume with Milli Q H_2O. Exp. 09/13/13.

W32257 BMS 08/13/13 TOCW LCS Std. (50mg/L): Into a 100mL vol., pipetted 5.0mL of W32255 and brought to volume with Milli Q H_2O. Exp. 09/13/13.

W32258 MMS 08/13/13
IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W32259 MMS 8/13/13
NH_3 IL Buffer
Into a 1L volumetric flask dissolve 30g NaOH W 32029, 25g EDTAW 31186 and 67g Sodium Phosphate Dibasic Heptahydrate W 52152 and fill to volume with DI H_2O. Exp (one month): 9/13/13

W32260 MMS 8/13/13
NH_3 IL Hypochlorite
Into a 1L volumetric flask volumetrically add 60 mL 5.25% sodium hypochlorite bleach W 32186 and fill to volume with DI H_2O. Exp (one day): 8/14/13

Continued on Page

Read and Understood By

Signed 8/27/13 Date
Signed Date

W32220
8/6/13 BC

Cupric Digestion Solution
Into a 2L volumetric flask dissolve 268g potassium sulfate W 29696 and 14.6g copper sulfate W 31625 and slowly volumetrically add 268 mL H_2SO_4 W 31664 and fill to volume with DI H_2O. Exp. (one month): 9/6/13

W32221
08/06/13
TMDS

IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W32222
mal
8-8-13

TPhos 8500 Ascorbic
Into a 1 L volumetric flask dissolve 70g ascorbic acid W 32065 and 1.0 g SDS W 30340 and fill to volume with DI H_2O. Exp. (two days): 8-10-13

W32223
mal
8-8-13

TPhos 8500 Digestion Solution #1
Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W 31938 and fill to volume with DI H_2O. Exp. (one month): 9-8-13

W32224
mal
8-8-13

TPhos 8500 Molybdate
Into a 1 L volumetric flask volumetrically add 213 mL Ammonium Molybdate W 32117 and 72 mL Antimony Potassium Tartrate W 31984 then dissolve 22.8g NaOH W 32029 and fill to volume with DI H_2O. Exp. (one month): 9-8-13

8-8-13 mal
W32225
W32226
US
8/8/13

KHP Buffer (pH 3.1)
Into a large beaker dissolve 25g potassium hydrogen phthalate (KHP) W 29079 in 450 ml CO_2-free DI water. Add 42.5ml of 0.1 M HCL W 31851 and adjust pH to 3.1± 0.05.
EXP (one week): 8/15/13

W32226
mal
8/8/13

TPhos 8500 UV digestion check Stock (100mg/L)
Into a 500 mL volumetric flask dissolve 0.1980g sodium triphosphate W 26401 and fill to volume with DI H_2O. Exp. (one month): 9/8/13

W32227
mal
8/8/13

TPhos 8500 Digestion Check (8 mg/L)
Into a 100 mL volumetric flask pipette 8 mL TPhos UV digestion check stock (100mg/L) W 32226 and fill to volume with H_2SO_4 diluent W 32081.
Exp. (one month): 9/8/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W32195 MS 8/1/13

TPhos Cupric Molybdate Color Reagent
Into a 500mL volumetric flask volumetrically add 17.5mL H_2SO_4 W 31616, 106.5 mL stock Ammonium Molybdate W 31155, and 36 mL stock Antimony Potassium Tartrate W 31984 and fill to volume with DI H_2O.
Exp (one month): 9/1/13

W32196 MS 8/1/13

TKN Buffer Reagent
Into a 2L volumetric flask dissolved 40g EDTA W 31180, 70g sodium phosphate dibasic heptahydrate W 32152, and 100g NaOH W 32029 and brought to volume with DI H_2O. EXP(1 month): 9/1/13

W32197 MDS 08/01/13

LL Ophos ICAL Working (50 mg/L)
Into a 100 ml volumetric flask pipette 5ml TPhos ICAL/CCV stock standard (1000mg/L) W 30355 and fill to volume with MilliQ H_2O.
Exp (two days): 08/03/13

W32198 08/01/13 MDS

IC LL Ophos ICal
Into 8 separate 100 ml volumetric flasks pipette 0, 0.01, 0.02, 0.04, 0.06, 0.1, 0.2, and 0.4ml LL Ophos ICal Working (50mg/L) W 32197 and fill to volume with MIlliQ H_2O. Exp (two days): 08/03/13

W32199 08/01/13 MDS

IC NO_2 ICAL: Into 6 100mL vol. flasks, pipet ~~0, 0.01, 0.02, 0.04, 0.06, 0.1~~ 0, 0.01, 0.05, 0.1, 0.2, 0.5mL 08/02/13 MDS
NO_2 1000mg/mL stock W30512 + bring to volume with milliQ H_2O.
exp 08/03/13

W32200 mdl 8-1-13

TPhos 8500 Molybdate
Into a 1 L volumetric flask volumetrically add 213 mL Ammonium Molybdate W 32117 and 72 mL Antimony Potassium Tartrate W 31984 then dissolve 22.8g NaOH W 32029 and fill to volume with DI H_2O. Exp. (one month): 9-1-13

W32201 mdl 8-2-13

NH_3 IL Hypochlorite
Into a 1L volumetric flask volumetrically add 60 mL 5.25% sodium hypochlorite bleach W 32186 and fill to volume with DI H_2O. Exp (one day): 8-3-13

W32202 8/2/13

IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W 31998 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 09/02/13

Continued on Page _____

Read and Understood By

8/2/13 CB

Signed | Date | Signed

W32168 CES
7/30/13

Alkalinity ICV/LCS Stock (2500mg/L)
Into a 250mL volumetric flask dissolve 0.6625g Na_2CO_3 W 29305 and fill to volume with CO_2 free DI H_2O. Exp. (one month): 8/30/13

W32169 CES
7/30/13

Alkalinity ICV (75mg/L)
Into a 100mL volumetric flask pipette 3 mL LCS/ICV stock (2500mg/L) W 32168 and fill to volume with CO_2 free DI H_2O. Exp. (one month): 8/30/13

W32170 CES
7/30/13

Alkalinity LCS (375mg/L)
Into a 200mL volumetric flask pipette 30mL LCS/ICV stock (2500mg/L) W 32168 and fill to volume with CO_2 free DI H_2O. Exp. (one month): 8/30/13

W32171 CES
7/30/13

Alkalinity ICAL using Ical stock (2500 mg/L) W 32167 fill to final volume of 100ml with CO_2 free DI H_2O exp (one month): 8/30/13

	ICal Stock (mL)	True Value (mg/L)
A	30	750
B	25	625
C	20	500
D	15	375
E	10	250
F	5	125
G	3	75
H	1	25
I	0	0

CES 7/30/13

W32172 CES
7/30/13

Chloramine-T Reagent
Into a 500 mL volumetric flask dissolved 2 g chloramine-T W 30230 and brought to volume with DI H_2O. EXP (24hr): 7/31/13

W32173
07/30/13 MDS

LL Ophos ICV/LCS (0.1 mg/L)
Into a 100 ml volumetric flask pipette 0.01ml Tphos ICV/LCS stock standard (1000mg/L) W 30897 and fill to volume with Milli Q H_2O.
Exp (One month): ~~7/30/13~~ 8/30/13 MDS 07/30/13

W32174
07/30/13 MDS

LL Ophos Spike (30 mg/L)
Into a 100 ml volumetric flask pipette 3.0 ml Tphos ICV/LCS stock standard (1000mg/L) W 30897 and fill to volume with Milli Q H_2O.
Exp (One month): 8/30/13

Read and Understood By

8/2/13 CES

Signed Date Signed Date

W32153CB 7/27/13 $NO_2 + NO_3$ Buffer
Into a 1 L volumetric flask dissolve 85g ammonium chloride W 31507 and 1g EDTA W 31196 and fill to volume with DI H_2O and degas. Adjust pH to 8.5 with 15 N NaOH W 30231. Exp (one month): 8/27/13

W32154CB 7/27/13 $NO_2 + NO_3$ Color Reagent
Into a 1L volumetric flask volumetrically dissolve 40g sulfanilamide W 26417 and 1g N-(1-naphthyl)ethylenediamine dihydrochloride (NED) W 26416 volumetrically add 100mL phosphoric acid W 31790 and fill to volume with DI H_2O. Exp (one month): 8/27/13

W32155CB 7/29/13 NO_2+ NO_3 ICal (20 mg/L)
Into a 100 mL volumetric flask pipette 2mL NO_3 ICAL/CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 32082.
Exp (one month): 8/29/13

W32156CB 7/29/13 $NO_2 + NO_3$ ICV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_2 ICV/LCS stock (1000 mg/L) W 31998 and fill to volume with H_2SO_4 diluent W 32082.
Exp (one month): 8/29/13

W32157CB 7/29/13 $NO_2 + NO_3$ CCV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_3 ICal/ CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 32082.
Exp (one month): 8/29/13

W32158CB 7/29/13 $NO_2 + NO_3$ LCS (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_3 ICV/LCS stock (1000 mg/L) W 31174 and fill to volume with H_2SO_4 diluent W 32082.
Exp (one month): 8/29/13

W32159mb 07/29/13 IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W32160 VS 7/30/13 0.25 M Sodium Hydroxide
Into a 2 L volumetric flask dissolved 20 g sodium hydroxide W 32029 and brought to volume with DI H_2O. EXP (1 Month): 8/30/13

Read and Understood By

8/2/13 CB
Signed | Date | Signed | Date

W32145 mnl 7-25-13

NH_3 IL Buffer

Into a 1L volumetric flask dissolve 30g NaOH W 32029, 25g EDTA W 31186 and 67g Sodium Phosphate Dibasic Heptahydrate W 31630 + W32152 and fill to volume with DI H_2O. Exp (one month): 8-25-13

W32146 mnl 7-25-13

NH_3 IL Borate Buffer

Into a 1 L volumetric flask dissolve 5.0 g sodium tetraborate decahydrate W 23610 and 22g NaOH W 32029 and fill to volume with DI H_2O.
Exp (one month): 8/25/13

W32147 mnl 7/26/13

NH_3 IL Hypochlorite

Into a 1L volumetric flask volumetrically add 60 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp (one day): 7/27/13

W32148 mnl 7/26/13

NH_3 IL ICal using NH_3 CCV/ICAL1000mg/L stock W 31418 fill to volume with H_2SO_4 diluent W 32082 Exp. (two weeks): 8/9/13

	ICal Stock (mL)	Final volume (mL)	True Value (mg/L)
A	1	100	10
B	0.5	100	5
C	0.25	100	2.5
D	0.125	100	1.25
E	0.05	100	0.5
F	0.025	100	0.25
G	0	100	0

W32149 mnl 7/26/13

NH_3 IL CCV (4 mg/L)

Into a 100 mL volumetric flask pipette 0.4ml NH_3 1000mg/L CCV/ICal stock W 31418 and fill to volume with H_2SO_4 diluent W 32082.
Exp. (two weeks): 8/9/13

W32150 mnl 7/26/13

NH_3 IL ICV/LCS (4mg/L)

Into a 100 mL volumetric flask pipette 0.4ml NH_3 1000mg/L ICV/LCS stock W 31926 and fill to volume with H_2SO_4 diluent W 32082.
Exp. (two weeks): 8/9/13

W32151 EJC 7/26/13

IC CCV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC CCV Mixed Standard to equal a value of 3.5 mg/L Nitrite

Into a 500 mL volumetric flask piepetted 3.5 mL 1000 mg/L Nitrite W30512 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 8/26/13

W32152 mnl 7/26/13 Sodium phosphate Dibasic Heptahydrate Fisher cat # S373-500 ~~Exp~~ Lot # 130777

Continued on Page _____

7-26-13 mnl

Read and Understood By

8/2/13 GS

Signed Date Signed Date

W32101 EJC 7/19/13 TOCW CCV (50ng/L) Into a 200mL vol. pipetted 10mL TOCW CCV/ICA 1000mg/L stock W31403 & brought to vol. w/ Milli Q DI H_2O exp: 8/19/13

W32102 EJC 7/19/13 TOCW LCSW (50ng/L) Into a 200mL vol. pipetted 10mL TOCW ICV/LCS 1000mg/L stock W31404 & brought to vol. w/ Milli Q DI H_2O exp: 8/19/13

W32103 mul 7-19-13 Pyridine Color Reagent
Into a 500 mL volumetric flask dissolved 7.5 g barbituric acid W 31540, volumetrically added 37.5 mL pyridine W 29349, and pipetted 7.5 mL hydrochloric acid W 31365 and brought to volume with DI H_2O.
EXP (1 week): ~~7/26/13~~ 7/26/13 mul

W32104 mul 7-19-13 CN Buffer Reagent
Into a 500 mL volumetric flask dissolved 48.5 g potassium phosphate monobasic W 32106 and brought to volume with DI H_2O.
EXP (1 month): 8/19/13

W32105 mul 7-19-13 Chloramine-T Reagent
Into a 500 mL volumetric flask dissolved 2 g chloramine-T W 30230 and brought to volume with DI H_2O. EXP (24hr): 7/20/13

W32106 mul 7-19-13 Potassium Phosphate Monobasic Fisher lot# 130853 cat.# P285-500

W32107 EJC 7/19/13 IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W32108 EJC 7/22/13 1M NaCl: Into a 100mL vol. dissolved 5.85g NaCl W29369 & brought to vol. w/ Milli Q DI H_2O. & adjusted pH to 2.0 w/ HCl W31365 . exp: 8/22/13

W32109 EJC 7/22/13 pH 2.0 200mM NaCl in 80% acetonitrile: Into a 500mL vol. added 100mL 1M NaCl W32108 & brought to vol. w/ acetonitrile Macron Cat# H454-10 Lot# 0000034947. exp: 8/22/13

Continued on Page

Read and Understood By

8/2/13 CE

Signed Date Signed Date

W32093 mal 7-18-13 NH_3 Buffer

Into a 500mL volumetric flask dissolved 25g EDTA W 31186 and volumetrically added 112.5mL 1N NaOH W 31791 and brought to volume with DI H_2O. EXP(1 month): 8-18-13

W32094 mal 7-18-13 NH_3 Sodium Hypochloride

Into a 500mL volumetric flask volumetrically added 250mL Bleach W 31307 and brought to volume with DI H_2O. EXP(24 hours): 7-19-13

W32095 mal 7-18-13 Sodium Phenolate Color Reagent

Into a 500mL volumetric flask dissolved 16g NaOH W 30844 and volumetrically added 44mL phenol W 30049 and brought to volume with DI H_2O. EXP(1 week): 7-25-13

W32096 EJC 7/18/13 IC CCV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC CCV Mixed Standard to equal a value of 3.5 mg/L Nitrite

Into a 500 mL volumetric flask piepetted 3.5 mL 1000 mg/L Nitrite W 30512 and brought to volume with Milli-Q DI H_20. EXP (1 month): 8/18/13

W32097 EJC 7/18/13 IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W 29804 and brought to volume with Milli-Q DI H_20.
EXP (1 Month): 8/18/13

W32098 EJC 7/18/13 LL Ophos CCV (0.1 mg/L)

Into a 200 ml volumetric flask pipette 0.02ml Tphos CCV stock standard (1000mg/L) W 30355 and fill to volume with Milli Q H_2O.
Exp (One month): 8/18/13

W32099 mal 7/18/13 2N KCl Extraction Solution

Into a 1L volumetric flask dissolve 149g potassium chloride W 31166 and fill to volume with DI H_2O. Exp(one month): 8/18/13

W32100 mal 7/18/13 NH_3 LCS Into a 100mL Vol. pipetted 0.125ml NH_3 1000mg/L W31924 brought to Vol. w/ KCL W32099

Continued on Page

Read and Understood By

8/2/13 EJ

Signed | Date | Signed | Date

W32070 EJC 7/15/13 ESJ 7/15/13

IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 29818, Phosphate W 30355, Bromide W 31339, and Nitrate W 30659, 15 ml 1000 mg/L Chloride W 31340, and 25 ml 1000 mg/L Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 8/15/13

W32071 EJC 7/15/13

IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 31339, Nitrate W 30659, and Phosphate W 30355 and 25.6 mL 1000 mg/L Chloride W 31340 and Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 8/15/13

W32072 EJC 7/15/13

IC Nitrite and Fluoride Spike Standard (64 mg/L Nitrite and 32 mg/L Fluoride)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000 mg/L Nitrite W 30512 and 3.2 mL 1000 mg/L Fluoride W 29818 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 8/15/13

W32073 EJC 7/15/13

Sodium salicylate - Fisher cat# S595-500 lot # 130372

W32074 VS 7/16/13

0.25 M Sodium Hydroxide
Into a 2 L volumetric flask dissolved 20 g sodium hydroxide W 32029 and brought to volume with DI H_2O. EXP (1 Month): 8/16/13

W32075 EJC 7/16/13

NH_3 IL Hypochlorite
Into a 1L volumetric flask volumetrically add 60 mL 5.25% sodium hypochlorite bleach W 31507 and fill to volume with DI H_2O. Exp (one day): 7/18/13

W32076 VS 7/16/13

CN ICAL/CCV Working Standard (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 29755 and brought to volume with 0.25 M NaOH W 32074.
EXP (1 week): 7/23/13

Continued on Page

Read and Understood By

8/2/13 EJC

Signed Date Signed Date

W32052 CG 7/10/13 Sulfide LCS - Into a 200mL vol pipetted 1mL WS2002 + filled to vol w/ DI H2O. TV= 5mL exp 7/11/13

W32053 CG 7/11/13 TPhos 8500 Molybdate

Into a 1 L volumetric flask volumetrically add 213 mL Ammonium Molybdate W 31655 and 72 mL Antimony Potassium Tartrate W 31984 then dissolve 22.8g NaOH W 32029 and fill to volume with DI H_2O. Exp. (one month): 8/11/13

W32054 CG 7/11/13 TPhos 8500 Ascorbic 7/11/13

Into a ~~1L~~ 500mL volumetric flask dissolve ~~70g~~ 35g ascorbic acid W ~~31805~~ 32024 and ~~1.0~~ 0.5g SDS W 30840 and fill to volume with DI H_2O. Exp. (two days): 7/13/13

W32055 WS 7/11/13 COD ICal Stock (1000mg/L)

Into a 200mL volumetric flask dissolve 0.17g Potassium Hydrogen Phthalate W 29079 and fill to volume with DI H_2O. Exp. (three months): 10/11/13

W32056 WS 7/11/13 COD CCV (400 mg/L)

Into a 250mL volumetric flask volumetrically added 100ml ICal Stock (1000mg/L) W 32055 and fill to volume with DI H_2O. Exp. (three months): 10/11/13

W32057 WS 7/11/13 DD Spike/LCS Stock (2000 mg/L)

Into a 500mL volumetric flask dissolve 0.85g Potassium Hydrogen Phthalate (KHP) W 29079 and fill to volume with DI H_2O. Exp. (three months): 10/11/13

W32058 WS 7/11/13 COD LCS (400 mg/L)

Into a 250mL volumetric flask pipette 50mL COD LCS Stock (2000mg/L) W 32057 and fill to volume with DI H_2O. Exp. (three months): 10/11/13

W32059 EJC 7/11/13 IC Eluent

Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W32060 CG 7/15/13 TPhos 8500 0.72N Sulfuric Acid Carrier

Into a 2L volumetric flask volumetrically add 76 mL trace metal grade H_2SO_4 W 31293 _____ and dissolve 10g NaCl W 30481 and 2g SDS W 30340 and fill to volume with DI H_2O. Exp. (one month): 8/15/13

7/15/13

Continued on Page

Read and Understood By

8/2/13 CG
Signed

Date

Signed

Date

W32035 TPhos 8500 LCS (4 mg/L)
QES 7/8/13 Into a 100 mL volumetric flask pipette 0.4mL PO_4 ICV/LCS stock (1000 mg/L) W 30897 and fill to volume with H_2SO_4 diluent W 31855.
Exp. (one month): 8/8/13

W32036 QES Nitrite PT - Into a 200mL vol pipetted 1mL 32777 & filled to vol w/ MilliQ H_2O. exp 7/10/13
7/8/13

W32037 QES Nitrite Known - Into a 200mL vol pipetted 1mL Nitrite cat # 770 lot # P213-770 - filled to vol w/ milliQ H_2O exp 7/10/13
7/8/13

W32038 QES Br PT - Into a 200mL vol pipetted 1mL 32768 & filled to vol w/ milliQ H_2O. exp 7/10/13 8/8/13 QES 7/8/13
7/8/13

W32039 QES Br Known - Into a 200mL vol pipetted 1mL Br cat # 769 lot # P213-769 - filled to vol w/ milliQ H_2O exp 8/8/13
7/8/13

W32040 0.25 M Sodium Hydroxide
WS 7/9/13 Into a 2 L volumetric flask dissolved 20 g sodium hydroxide W 32029 and brought to volume with DI H_2O. EXP (1 Month): 8/9/13

W32041 QES Cr^{+6} Water DPC Color Reagent
7/9/13 Into a 1 L volumetric flask dissolve 0.40g s-diphenylcarbazide (DPC) W 31013 in 200mL 2-propalnol W 31499. Add 720mL DI H_2O and then 80 mL H_2SO_4 W 31664 and fill to volume with DI H_2O. Exp. (one month): 8/9/13

W32042 QES Methyl Orange Reagent
7/9/13 Into a 1 L volumetric flask, volumetrically added 100 ml methyl orange solution W 31396 and brought to volume with CO_2-free DI H_2O.
EXP (1 month): 8/9/13

W32043 KHP Buffer (pH 3.1)
7/9/13 Into a large beaker dissolve 2.5g potassium hydrogen phthalate (KHP) W 19521 in 450 ml CO_2-free DI water. Add 42.5ml of 0.1 M HCL W 31851 and adjust pH to 3.1± 0.05.
EXP (one week): 7/16/13

QES 7/9/13

Continued on Page

Read and Understood By

7/11/13 CAS

Signed Date Signed Date

W32017 EJC 7/3/13 IC Eluent

Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.

Exp: ~~7/4/13~~ 9/20/13

EJC 7/3/13

W32018 BMS 07/04/13 TOCW CCV Std. (50mg/L): Into a 200mL vol., pipetted 10.0mL of W31403 and brought to volume with Milli Q H_2O. Exp. 08/04/13.

W32019 BMS 07/04/13 TOCW LCS Std. (50mg/L): Into a 100mL vol., pipetted 5.0mL of W31404 and brought to volume with Milli Q H_2O. Exp. 08/04/13.

W32020 7/4/13 WS Cupric Digestion Solution

Into a 2L volumetric flask dissolve 268g potassium sulfate W 29694 and 14.6g copper sulfate W 31625 and slowly volumetrically add 268 mL H_2SO_4 W 31604 and fill to volume with DI H_2O. Exp. (one month): 8/5/13

W32021 EJC 7/4/13 Sodium Phenolate Color Reagent

Into a 500mL volumetric flask dissolved 16g NaOH W 30844 and volumetrically added 44mL phenol W 30049 and brought to volume with DI H_2O.

EXP(1 week): 7/11/13

W32022 EJC 7/4/13 NH_3 Sodium Hypochloride

Into a 500mL volumetric flask volumetrically added 250mL Bleach W 31307 and brought to volume with DI H_2O. EXP(24 hours): 7/5/13

W32023 EJC 7/4/13 Pyridine Color Reagent

Into a 500 mL volumetric flask dissolved 7.5 g barbituric acid W 31540, volumetrically added 37.5 mL pyridine W 29349, and pipetted 7.5 mL hydrochloric acid W 31365 and brought to volume with DI H_2O.

EXP (1 week): 7/11/13

EJC 7/4/13

~~W32033~~

W32024 EJC 7/4/13 Chloramine-T Reagent

Into a 500 mL volumetric flask dissolved 2 g chloramine-T W 30230 and brought to volume with DI H_2O. EXP (24hr): 7/5/13

W32025 WS 7/8/13 TKN/ TPHOS Cupric Diluent

Into a 2L volumetric flask volumetrically add 800mL cupric digestion solution W 32020 and fill to volume with DI H_2O. Exp (one month): 8/4/13

Read and Understood By

7/8/13 BM

Signed Date Signed Date

W32003 TPhos Cupric Molybdate Color Reagent
OS 7/2/13 Into a 500mL volumetric flask volumetrically add 17.5mL H_2SO_4 W 31664, 106.5 mL stock Ammonium Molybdate W 31655, and 36 mL stock Antimony Potassium Tartrate W 31984 and fill to volume with DI H_2O.
Exp (one month): 7/29/13

W32004 TPhos Cupric Ascorbic
7/2/13 Into a 250 mL volumetric flask dissolve 15g Ascorbic Acid W 31809 and 0.25g Sodium Dodecyl sulfate (SDS) W 30340 and fill to volume with DI H_2O.
Exp.(one day): 7/3/13

W32005 IC Eluent
mm 7-2-13 Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9-22-13

W32006 Sulfide LCS: (5.0mg/L): Add 1mL Sodium Sulfide
WS 7/2/13 stock W32002 into a 200mL vol. flask & bring to vol w/ DI

W32007 Sulfide LCS: (5.0mg/L): Add 1mL Sodium Sulfide
WS 7/2/13 stock W32002 into a 200mL vol. & bring to vol w/ DI.

W32008 TKN Hypochlorite
OS 7/2/13 Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp. (one day): 7/3/13

W32009 $NO_2 + NO_3$ Buffer
7/3/13 Into a 1 L volumetric flask dissolve 85g ammonium chloride W 31507 and 1g EDTA W 31186 and fill to volume with DI H_2O and degas. Adjust pH to 8.5 with 15 N NaOH W 30221. Exp (one month): 8/3/13

W32010 $NO_2 + NO_3$ Color Reagent
7/3/13 Into a 1L volumetric flask volumetrically dissolve 40g sulfanilamide W 26417 and 1g N-(1-naphthyl)ethylenediamine dihydrochloride (NED) W 26416 volumetrically add 100mL phosphoric acid W 31790 and fill to volume with DI H_2O. Exp (one month): 8/3/13

Continued on Page

Read and Understood By

7/2/13 OS

Signed | Date | Signed | Date

W31994 CCC TPhos 8500 Digestion Solution #1
7/1/13 Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W____
7/2/13 and fill to volume with DI H_2O. Exp. (one month): 8/1/13

W31995 ESC Phenolics CCV (250 µg/L)
7/1/13 Into a 200 mL volumetric flask pipette 0.05mL Phenol ICal/CCV Stock (1000mg/L)
W 31872 and fill to volume with DI H_2O. Exp. (one week): 7/8/13

W31996 ESC Phenolics LCS (250 µg/L)
7/1/13 Into a 200 mL volumetric flask pipette 0.05mL Phenol ICV/LCS Stock (1000mg/L)
W 30886 and fill to volume with DI H_2O. Exp. (one week): 7/8/13

W31997 ESC Phenolics ICAL Working (1000 µg/L)
7/1/13 Into a 100 mL volumetric flask pipette 0.1mL Phenol ICal/CCV Stock (1000mg/L)
W 31872 and fill to volume with DI H_2O. Exp. (one week): 7/8/13

W31998 mcl NO_2 Stock Std. 1000mg/L Spex Certiprep lot # 13-22 NO_2 N-24
7/1/13 exp: 6-30-14 alt # AS-NO_2 N9-24

W31999 mcl IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed Standard to equal a value of 3.5 mg/L Nitrite
7-1-13 Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W 31998 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 8-1-13

W32000 CCS TPhos 8500 Digestion Solution #2
7/1/13 Into a 2L volumetric flask dissolve 52g potassium persulfate W 31561 and fill to volume with DI H_2O. Exp. (one month): 8/1/13

W32001 CCS TPhos 8500 0.72N Sulfuric Acid Carrier
7/1/13 Into a 2L volumetric flask volumetrically add 76 mL trace metal grade H_2SO_4 W____
31293 and dissolve 10g NaCl W 30981 and 2g SDS W 30340 and fill to volume with DI H_2O. Exp. (one month): 8/1/13

W32002 ESC Sulfide 1000mg/L LCS stock: Into a 200mL vol. dissolved 1.5g Na Sulfide W22510 & brought to vol w/ 0.25N NaOH W31914 exp: 8/1/13
DES 7/2/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W3190 CES 6/19/13 NO_2 + HNO_3 MDL Study - Into 8 separate 100 mL vol pipetted 0.01 mL W30257 NO_2 CES stock 1000 mg/L + filled towards H_2SO_4 diluent W31855 TV = 0.1 mg/L exp 7/19/13

W3191 mnl 6/20/13 IC NO_2 Ical into 6 100 mL Vol. pipetted 0, 0.01, 0.05, 0.1, 0.2 & 0.5 mL NO_2 1000 mg/L Stock W30512 & brought to Vol. w/ milliQ H_2O exp 6/22/13

W3191 JS 6/20/13 NH_3 Sodium Hypochloride
Into a 500mL volumetric flask volumetrically added 250mL Bleach W 31307 and brought to volume with DI H_2O. EXP(24 hours): 6/24/13

W3191 3 JS 6/20/13 Sodium Phenolate Color Reagent
Into a 500mL volumetric flask dissolved 16g NaOH W 30844 and volumetrically added 44mL phenol W 30049 and brought to volume with DI H_2O.
EXP(1 week): 6/24/13

W3191 4 mnl 6/20/13 0.25 M Sodium Hydroxide
Into a 2 L volumetric flask dissolved ~~20~~ 60 g sodium hydroxide W 30844 and brought to ~~volume~~ 6 L with DI H_2O. EXP (1 Month): 7/20/13

W3191 5 mnl 6/20/13 CN ICAL/CCV Working Standard (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 28755 and brought to volume with 0.25 M NaOH W 31914.
EXP (1 week): 6/27/13

W3191 6 mnl 6/20/13 CN ICAL
All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W 31914. EXP (1 Week): 6/27/13

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W 31915	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

Continued on Page

Read and Understood By

Signed Date Signed Date

Notebook No. _____ 59

PROJECT _____ Continued From Page _____

W31860 TKN LOD check Water: Into a dig tube pipetted 0.1mL
WS ~~W30700~~ W31563 TKN/TPhos spiking soln + filled to 20mL w/ 1% DI
6/14/13 H2O. EXP 7/14/13 TV = 1mg/L

W31861 TKN LOQ check Water: Into a dig tube pipetted 0.2mL
WS W31563 TKN/TPhos spiking soln + filled to 20 mL w/
6/14/13 DI H2O. EXP: 7/14/13 TV = 2mg/L

W31862 CS TPhos 8500 Ascorbic
6/17/13 Into a 1 L volumetric flask dissolve 70g ascorbic acid W 31809 and 1.0 g SDS W 30846 and fill to volume with DI H_2O. Exp. (two days): 6/19/13

W31863 EJC 6/17/13 IC CCV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC CCV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask piepetted 3.5 mL 1000 mg/L Nitrite W 30512 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 7/17/13

W31864 EJC 6/17/13 IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride
Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W 29804 and brought to volume with Milli-Q DI H_2O.
EXP (1 Month): 7/17/13

W31865 CS 6/17/13 Phenolics ICAL Working (1000 µg/L)
Into a 100 mL volumetric flask pipette 0.1mL Phenol ICal/CCV Stock (1000mg/L) W 31872 and fill to volume with DI H_2O. Exp. (one week): 6/24/13

W31866 CS 6/17/13 Phenolics CCV (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICal/CCV Stock (1000mg/L) W 31872 and fill to volume with DI H_2O. Exp. (one week): 6/24/13

W31867 CS 6/17/13 Phenolics LCS (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICV/LCS Stock (1000mg/L) W 30886 and fill to volume with DI H_2O. Exp. (one week): 6/24/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W31853 ESL 6/13/13 Alk LODWV (15mg/L) Into a 50mL pipetted 0.3m Alk ICV/LCS 2500mg/L stock W31598 & brought to vol w/ CO_2 free DI H_2O. exp. ~~7/13/13~~ 6/21/13 ESL 6/13/13

W31854 ESL 6/13/13 Alk LOQWV (30mg/L) Into a 50mL vol. pipetted 0.6m Alk ICV/LCS 2500mg/L stock W31598 & brought to vol w/ CO_2 free DI H_2O. exp: 6/21/13

W31855 6/13/13 H_2SO_4 Diluent

Into a large carboy volumetrically add 40mL trace metal grade H_2SO_4 W 31664 and fill to a final volume of 20L with DI H_2O.

Exp (~~one~~ Three month): 9/13/13 6/13/13

W31856 ESC 6/14/13 IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)

Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 31339, Nitrate W 30659, and Phosphate W 30355 and 25.6 mL 1000 mg/L Chloride W 31340 and Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 7/14/13

W31857 ESC 6/14/13 IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 29818, Phosphate W 30355, Bromide W 31339, and Nitrate W 30659, 15 ml 1000 mg/L Chloride W 31340, and 25 ml 1000 mg/L Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 7/14/13

W31858 KS 6/14/13 TKN/TP LOD check (1mg/L N & 1.2mg/L P) Into a 100mL vol. pipette 0.1mL NH_3 1000mg/L stock W30902 & 0.24mL PO_4 1000 stock W30897 & brought to vol w/ DI H_2O. exp: 7/14/13

W31859 KS 6/14/13 TKN/TP LOQ check (2mg/L N & 2.4mg/L P) Into a 100m vol pipetted 0.2mL NH_3 1000mg/L stock W30902 & 0.24mL PO_4 1000mg/L stock W30897 & brought to vol w/ DI H_2O. exp: 7/14/13

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT _____ Notebook No. _____ 57

Continued From Page _____

W31845 6/12/13 NH_3 Undistilled ICAL (2.5mg/L)
Into a 100mL volumetric flask pipetted 0.25mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 31418 and brought to volume with H_2SO_4 Diluent W 31520.
EXP. (two weeks): 6/25/13

W31846C 6/12/13 NH_3 Undistilled CCV (1.25mg/L)
Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 31418 and brought to volume with H_2SO_4 Diluent W 31520. EXP. (two weeks): 6/25/13

W31847 6/12/13 NH_3 Undistilled ICV/LCS (1.25mg/L)
Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 30902 and brought to volume with H_2SO_4 Diluent W 31520. EXP. (two weeks): 6/25/13

W31848 6/13/13 IC Nitrite and Fluoride Spike Standard (64 mg/L Nitrite and 32 mg/L Fluoride)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000 mg/L Nitrite W 30512 and 3.2 mL 1000 mg/L Fluoride W 29818 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 7/13/13

W31849 6/13/13 KHP Buffer (pH 3.1)
Into a large beaker dissolve 2.5g potassium hydrogen phthalate (KHP) W 19521 in 450 ml CO_2-free DI water. Add 42.5ml of 0.1 M HCL W 31851 and adjust pH to 3.1± 0.05.
EXP (one week): 6/20/13

W31850 6/13/13 Methyl Orange Reagent
Into a 1 L volumetric flask, volumetrically added 100 ml methyl orange solution W 28381 and brought to volume with CO_2-free DI H_2O.
EXP (1 month): 7/13/13

W31851 6/13/13 HCl Acid 0.1 M
Into a 500 ml volumetric flask containing about 400 ml of DI water add 4.15 ml concentrated hydrochloric acid W 31365 and brought to volume with DI H_2O.
EXP(1 year): 6/13/14

W31852 6/13/13 $NO_2 + NO_3$ Color Reagent
Into a 1L volumetric flask volumetrically dissolve 40g sulfanilamide W 26417 and 1g N-(1-naphthyl)ethylenediamine dihydrochloride (NED) W 26416 volumetrically add 100mL phosphoric acid W 31790 and fill to volume with DI H_2O. Exp (one month): 7/13/13 6/12/13

Continued on Pg. _____

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

PROJECT _____ Notebook No. _____ 53

Continued From Page _____

W31812 6/10/13 CBS

NH_3 IL Buffer

Into a 1L volumetric flask dissolve 30g NaOH W 30844, 25g EDTA W 31186 and 67g Sodium Phosphate Dibasic Heptahydrate W 31630 and fill to volume with DI H_2O. Exp (one month): 7/10/13

W31813 EJC 6/10/13

Iodine 0.0250 N Ricca Cat# 3975-32 Lot # 4303B12 exp: Feb 2014

W31814 EJC 6/10/13

Sulfide LCS (5mg/L) Into a 200mL vol. pipetted 1mL Sulfide 1000mg/L stock W 31635 + brought to vol. w/ DI H_2O. exp: 6/11/13

W31815 mxl 6/10/13

IC ICAL Mixed Standard (50 mg/L):

Into a 100 mL volumetric flask pipetted 5 mL of 1000 mg/L Nitrite W 30512, Fluoride W 29818, Bromide W 31339, Nitrate W 30659, and Phosphate W 30355 and brought to volume with Milli-Q DI H_2O.

EXP (48 Hours): 6/12/13

W31816 mxl 6/10/13

IC ICAL

Prepared in 100 mL volumetric flasks and brought to volume with Milli-Q DI H_2O.

	1	2	3	4	5	6	7	8
mLs Mixed Std 50mg/L W 31815	0	0.2	1.0	2.0	4.0	10.0	14.0	28.0
mLs Chloride 1000mg/L W 31340	0	0.05	0.1	0.5	1.0	2.0	3.0	4.0
mLs Sulfate 1000mg/L W 30942	0	0.05	0.1	0.5	1.0	3.0	5.0	7.0

EXP (48 Hours): 6/12/13

W31817 EJC 6/10/13

TPhos 8500 Molybdate

Into a 1 L volumetric flask volumetrically add 213 mL Ammonium Molybdate W 31655 and 72 mL Antimony Potassium Tartrate W 31477 then dissolve 22.8g NaOH W 30844 and fill to volume with DI H_2O. Exp. (one month): 6/30/13

W31818 CBS 6/11/13

0.8M Sodium Hydroxide

Into a 1L volumetric flask dissolved 32g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 7/11/13

W31819 CBS 6/11/13

TKN Hypochlorite

Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp. (one day): 6/12/13

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

PROJECT _____ Notebook No. _____ 51

Continued From Page _____

W31795 CS 6/3/13 — CN-IL ICal working - Into a 100mL vol pipetted 1mL W31384 - fill to volume 0.025 N NaOH W31792. Exp 6/10/13 W28755 CS 6/3/13

W31796 CS 6/3/13 — CN-IL ICV/CCS working - Into a 100mL vol pipetted 1mL CN Fe(II)CN stock W31384 + filled to vol w/ 0.025 N NaOH exp 6/10/13

W31797 6/5/13 — IC Eluent

Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.

Exp: 9/22/13

W31798 CS 6/5/13 — Manganous Sulfate - Ricca cat # 4620-32 lot # 4207649 exp 7/2014

W31799 CS 6/6/13 — Chloramine T - CN-IL - Into a 25.0mL vol dissolved 1.5g chloramine T W30030 + filled to volume dI H_2O. exp 6/7/13

W31800 CS 6/7/13 — Pyridine Color Reagent

Into a 500 mL volumetric flask dissolved 7.5 g barbituric acid W 31540, volumetrically added 37.5 mL pyridine W 29341, and pipetted 7.5 mL hydrochloric acid W 31365 and brought to volume with DI H_2O.

EXP (1 week): 6/14/13

W31801 EJC 6/7/13 — Cupric Digestion Solution

Into a 2L volumetric flask dissolve 268g potassium sulfate W 29696 and 14.6g copper sulfate W 31625 and slowly volumetrically add 268 mL H_2SO_4 W 31664 and fill to volume with DI H_2O. Exp. (one month): 7/7/13

W31802 CS 6/7/13 — CN-IL - Ical - using W31797

pipetted 2mL into a 200mL vol = 100ug/L

0.75mL into a 100 mL = ~~50~~ 75 93S 6/7/13

0.5mL into 100 = 50 ug/L

using 100 ug/L

30mL 100mL = 30 ug/L

CCB 6/7/13 10 ~~5~~mL 50mL = 20mL

5mL 50mL = 10 ug/L

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

PROJECT _____

W31624 TKN/ TPHOS Cupric Diluent
US 5/23/13 Into a 2L volumetric flask volumetrically add 800mL cupric digestion solution W 31623 and fill to volume with DI H_2O. Exp (one month): 6/23/13

W31625 Cupric Sulfate Pentahydrate, C494-500, Fisher Chemical Lot #122980
US 5/23/13

W31626 Dried Nitrocellulose stock std. (Cellulos Nitrate, 70% in (W13325)
RA 5/23/13 IPA - dried overnight). Neat - Exp. 6/21/15

W31627 IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed
mL Standard to equal a value of 3.5 mg/L Nitrite
5/23/13 Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W_____ and brought to volume with Milli-Q DI H_2O. EXP (1 month): _____

W31628 TKN Buffer Reagent
5/23/13 US Into a 2L volumetric flask dissolved 40g EDTA W 31184, 70g sodium phosphate dibasic heptahydrate W 31630, and 100g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 6/23/13

W31629 0.8M Sodium Hydroxide
5/23/13 US Into a 1L volumetric flask dissolved 32g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 6/23/13

W31630 Sodium Phosphate, Dibasic, Heptahydrate
5/23/13 US Cat # BDH0296-500G Lot # 122063, VWR

W31631 TKN Hypochlorite
5/24/13 US Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp. (one day): 5/8/13

W31632 EJC Cr^{+6} Soil Ical using ICal working W 31567 and fill to a final volume of 50mL with
5/24/13 digestion solution W 31420 Exp. (one month): 6/24/13

	Ical Working (mL)	True Value (µg/L)
A	0	0
B	1	100
C	2.5	250
D	5	500
E	10	1000

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W31617 TPhos 8500 Digestion Solution #1
QSD 5/22/13 Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W
31293 and fill to volume with DI H_2O. Exp. (one month): 6/22/13

W31616CE TPhos 8500 UV digestion check Stock (100mg/L)
5/22/13 Into a 500 mL volumetric flask dissolve 0.1980g sodium triphosphate W 26401 and fill to volume with DI H_2O. Exp. (one month): 6/22/13

W31617CE TPhos 8500 Digestion Check (8 mg/L)
5/22/13 Into a 100 mL volumetric flask pipette 8 mL TPhos UV digestion check stock (100mg/L) W 31616 and fill to volume with H_2SO_4 diluent W 31520.
Exp. (one month): 6/22/13

W31618 mwl LL ophos LCS/ICV into a 100ml Vol. pipetted 0.01ml pay 1000mg/L
5/22/13 W30897 & brought to Vol. w/ Milli Q H_2O TV = 0.1 mg/L exp 6/22/13

W31619 mwl LL ophos spike into a 100ml Vol. pipetted 3ml 1000mg/L W30897
5/22/13 & brought to Vol. w/ Milli Q H_2O exp 6/22/13 TV = 30 mg/L

W31620 mwl LL ophos ICV into a 200ml Vol. pipetted 0.02ml pay 1000mg/L
5/22/13 W30355 & brought to Vol. w/ Milli Q H_2O TV = 0.1 mg/L exp 6/22/13

W31621 EJC NH_3 IL Sodium Salicylate-Nitroprusside Color Reagent
5/22/13 Into a 1L volumetric flask dissolved 144g sodium salicylate W 31379 and 3.5g sodium nitroprusside W 30504 and brought to volume with DI H_2O.
EXP(1 month): 6/22/13

W31622 mwl IC Eluent
5/22/13 Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W31623 Cupric Digestion Solution
EJC Into a 2L volumetric flask dissolve 268g potassium sulfate W 29498 and 14.6g copper sulfate W 29442 and slowly volumetrically add 268 mL H_2SO_4 W 31099
5/22/13 and fill to volume with DI H_2O. Exp(one month): 6/23/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W31568 EJC 5/15/13
Cr^{+6} ICal (200mg/L)
Into a 250mL volumetric flask pipette 5mL Ical/CCV working (10.0 mg/L) W 31567 and fill to volume with DI H_2O. Exp. (one year): 5/15/14
EJC 5/15/13

W31569 EJC 5/15/13
Cr^{+6} CCV (100µg/L)
Into a 250mL volumetric flask pipette 2.5mL Ical/CCV working (10mg/L) W 31567 and fill to volume with DI H_2O. Exp. (one year): 5/15/14
EJC 5/15/13

W31570 EJC 5/15/13
Cr^{+6} ICV/LCS Stock (1000mg/L)
Into a 1 L volumetric flask dissolve 2.829g potassium dichromate W 18802 and fill to volume with DI H_2O. Exp. (one year): 5/15/14

W31571 EJC 5/15/13
Cr^{+6} ICV/LCS Working (10.0mg/L)
Into a 100 mL volumetric flask pipette 1 mL ICV/LCS Stock (1000mg/L) W 31570 and fill to volume with DI H_2O. Exp. (one year): 5/15/14

W31572 EJC 5/15/13
Cr^{+6} ICV/LCS (100µg/L)
Into a 250mL volumetric flask pipette 2.5mL ICV/LCS working (10mg/L) W 31571 and fill to volume with DI H_2O. Exp. (one year): 5/15/14

W31573
VJS 5/15/13 Sulfide LCS (50 mg/L): add 1 mL sodium sulfide stock into a 200ml vol. flask + bring to vol. w/ DI Exp 5/16/13

W31574 EJC 5/16/13
IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride
Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W 29804 and brought to volume with Milli-Q DI H_2O.
EXP (1 Month): 6/16/13

W31575 EJC 5/16/13
IC CCV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC CCV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask piepetted 3.5 mL 1000 mg/L Nitrite W 30512 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 6/16/13

Read and Understood By

Signed Date Signed Date

W31559 CES 5/14/13
TPhos 8500 Ascorbic
Into a ~~1 L~~ 500 volumetric flask dissolve ~~70g~~ 35g ascorbic acid W 31417 and ~~1.0g~~ 0.5g SDS W 30340 and fill to volume with DI H_2O. Exp. (two days): 5/16/13

W31560 CES 5/14/13
TPhos 8500 Digestion Solution #2
Into a 2L volumetric flask dissolve 52g potassium persulfate W 31561 and fill to volume with DI H_2O. Exp. (one month): 6/14/13

W31561 CES 5/14/13
Potassium persulfate [potassium peroxodisulfate] Fluka
cat # 60489-250G-F lot # BCBJ2296V

W31562 EJC 5/14/13
IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9-22-13

W31563 WS 5/18/13
TKN/TPHOS Spiking Solution (200mg/L NH_3 as N and PO_4^{-3} as P)
Into a 100mL volumetric flask pipetted 20mL TPHOS ICV/LCS Stock Standard 1000mg/L W 30897 and 20mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 30902 and brought to volume with DI H_2O. EXP(1 month): 6/15/13

W31564 WS 5/18/13
TKN/TPHOS LCS (10mg/L NH_3 as N and PO_4^{-3} as P)
Into a 1L volumetric flask pipetted 10mL TPHOS ICV/LCS Stock Standard 1000mg/L W 30897 and 10mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 30902 and brought to volume with DI H_2O. EXP(1 month): 6/15/13

W31565 WS 5/18/13
Cupric Digestion Solution
Into a 2L volumetric flask dissolve 268g potassium sulfate W 29696 and 14.6g copper sulfate W 29442 and slowly volumetrically add 268 mL H_2SO_4 W _____ and fill to volume with DI H_2O. Exp(one month): 6/15/13

W31566 EJC 5/15/13
Cr^{+6} Ical/ CCV Stock (1000mg/L)
Into a 1 L volumetric flask dissolve 2.829g potassium dichromate W 18819A and fill to volume with DI H_2O. Exp. (one year): 5/15/14

W31567 EJC 5/15/13
Cr^{+6} Ical/CCV Working (10.0mg/L)
Into a 100 mL volumetric flask pipette 1 mL ICal/CCV Stock (1000mg/L) W 31566 and fill to volume with DI H_2O. Exp. (one year): 5/15/14

Continued on Page

Read and Understood By

Signed Date Signed Date

W31552 EJC 5/13/13 LL TPhos 8500 ICal/ CCV Working (10mg/L)
Into a 100 mL volumetric flask pipette 1mL PO_4 ICal/ CCV stock (1000 mg/L) W 30355 and fill to volume with LL TPhos 8500 Diluent W 31479.
Exp. (one month): 6/13/13

W31553 EJC 5/13/13 LL TPhos 8500 CCV (200ug/L)
Into a 50 mL volumetric flask pipette 1 mL LL TPhos ICal/ CCV working (10 mg/L) W 31552 and fill to volume with LL H_2SO_4 diluent W 31479.
Exp. (one month): 6/13/13

W31554 EJC 5/13/13 LL TPhos 8500 ICal (500µg/L)
Into a 100 mL volumetric flask pipette 5mL LL TPhos ICal working (10 mg/L) W 31552 and fill to volume with LL H_2SO_4 diluent W 31479.
Exp. (one month): 6/13/13

W31555 EJC 5/13/13 LL TPhos 8500 ICV/ LCS Working (10mg/L)
Into a 100 mL volumetric flask pipette 1mL PO_4 ICV/ LCS stock (1000 mg/L) W 30897 and fill to volume with LL TPhos 8500 Diluent W 31479.
Exp. (one month): 6/13/13

W31556 EJC 5/13/13 LL TPhos 8500 ICV/LCS (200µg/L)
Into a 50 mL volumetric flask pipette 1 mL LL TPhos ICV/ LCS working (10 mg/L) W 31555 and fill to volume with LL H_2SO_4 diluent W 31479.
Exp. (one month): 6/13/13

W31557 EJC 5/13/13 IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 29818, Phosphate W 30355, Bromide W 31339, and Nitrate W 30659, 15 ml 1000 mg/L Chloride W 31340, and 25 ml 1000 mg/L Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 6/13/13

W31558 EJC 5/13/13 IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 31339, Nitrate W 30659, and Phosphate W 30355 and 25.6 mL 1000 mg/L Chloride W 31340 and Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 6/13/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W31530 CES 5/8/13

CN LCS/ICV Working Standard & Spike (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 31348 and brought to volume with 0.25 M NaOH W 31529.
EXP (1 week): 5/15/13

W31531 CES 5/8/13

CN LCS/ICV (50 µg/L)
Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 31530 and brought to volume with 0.25 M NaOH W 31529.
EXP (1 week): 5/15/13

W31532 CES W31530 5/8/13 CES 5/8/13

CN ICAL/CCV Working Standard (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 28758 and brought to volume with 0.25 M NaOH W 31529.
EXP (1 week): 5/15/13

W31533 CES 5/8/13

CN ICAL
All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W 31529. EXP (1 Week): 5/13/13

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W31532	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

W31534 CES 5/8/13

4-Aminoantipyrine Color Reagent CES 5/8/13 0.16g
Into a ~~500~~ 250mL volumetric flask dissolve ~~0.32~~ g 4-AAP W 21897 and fill to volume with DI H_2O. Exp. (one day): 5/9/13

W31535 W31544 CES 5/8/13

Phenol Buffer
Into a 500mL volumetric flask dissolve 1g $K_3Fe(CN)_6$ W 22607, 1.55g boric acid W 25121, 1.875g KCl W 30437, volumetrically add 23.5mL 1N NaOH W 31232 and fill to volume with DI H_2O. Exp. (one week): 5/15/13

W31536 EJC 5/9/13

IC Nitrite and Fluoride Spike Standard (64 mg/L Nitrite and 32 mg/L Fluoride)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000 mg/L Nitrite W 30512 and 3.2 mL 1000 mg/L Fluoride W 29818 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 6/9/13

Read and Understood By

Signed | Date | Signed | Date

W31513 ESC 5/7/13

NH_3 IL ICV/LCS (4mg/L)
Into a 100 mL volumetric flask pipette 0.4ml NH_3 1000mg/L ICV/LCS stock W 30902 and fill to volume with H_2SO_4 diluent W 31300.
Exp. (two weeks): 5/21/13

W31514 ESC 5/7/13

NH_3 IL CCV (4 mg/L)
Into a 100 mL volumetric flask pipette 0.4ml NH_3 1000mg/L CCV/ICal stock W 31148 and fill to volume with H_2SO_4 diluent W 31300.
Exp. (two weeks): 5/21/13

W31515 CLS 5/7/13

NO_2+ NO_3 ICal (20 mg/L)
Into a 100 mL volumetric flask pipette 2mL NO_3 ICAL/CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 31300.
Exp (one month): 6/7/13

W31516 CLS 5/7/13

NO_2 + NO_3 CCV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_3 ICal/ CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 31300.
Exp (one month): 6/7/13

W31517 CLS 5/7/13

NO_2 + NO_3 ICV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_2 ICV/LCS stock (1000 mg/L) W 30257 and fill to volume with H_2SO_4 diluent W 31300.
Exp (one month): 6/7/13

W31518 CLS 5/7/13

NO_2 + NO_3 LCS (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_3 ICV/LCS stock (1000 mg/L) W 31174 and fill to volume with H_2SO_4 diluent W 31300.
Exp (one month): 6/7/13

W31519 CES 5/7/13

LL Ophos CCV- Into a 100mL vol pipette 0.01mL PO4 CCV/Ical 1000mg/L stock W30355 + fill to w/ milliQ H2O. TV = 0.1mg/L exp 6/7/13

W31520 CES 5/7/13

H_2SO_4 Diluent CES 5/21/13
Into a large carboy volumetrically add 40mL ~~trace metal grade~~ H_2SO_4 W 31099 and fill to a final volume of 20L with DI H_2O.
Exp ~~(one month)~~ three: 8/7/13

Read and Understood By

Signed | Date | Signed | Date

W31488 mwl 5-1-13

Cr^{+6} Water DPC Color Reagent
Into a 1 L volumetric flask dissolve 0.40g s-diphenylcarbazide (DPC) W 31403 in 200mL 2-propalnol W 31499. Add 720mL DI H_2O and then 80 mL H_2SO_4 W 31099 and fill to volume with DI H_2O. Exp. (one month): 6/1/13

W31489 mwl 5-1-13

Cr^{+6} Water Color Correction Reagent
Into a 1 L volumetric flask volumetrically add 200mL 2-propalnol W 31499, 720mL DI H_2O, and 80 mL H_2SO_4 W 3099. Fill to volume with DI H_2O.
Exp. (one year): 5/1/14

W31490 ESC 5-1-13

ICPT 287900: Into a 200mL vol. pipetted 1mL PT concentrate + brought to vol. w/ Milli Q DI H_2O. exp: 6-1-13

W31491 ESC 5-1-13

ICPT 287896: Into a 200mL vol. pipetted 1mL PT concentrate + brought to vol. w/ Milli Q DI H_2O. exp: ~~6-1-13~~ 5-3-13 ESC 5-1-13

W31492 ESC 5-1-13

IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9-22-13

ESC 5-1-13

W31493 ESC 5/2/13

Cr^{+6} H_2O PT - Into a 200mL vol pipetted 1mL 287904 + filled to vol w/ DI H_2O. exp 6/2/13

W31494 CES 5/2/13

TKN Hypochlorite
Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp. (one day): 5/3/13

W31495 CES 5/2/13

Sodium Salicylate-Nitroprusside Color Reagent
Into a 1L volumetric flask dissolved 150g sodium salicylate W 31379 and 1g sodium nitroprusside W 30504 and brought to volume with DI H_2O.
EXP(1 month): 6/2/13

W31496 CES 5/2/13

TKN/ TPHOS Cupric Diluent
Into a 2L volumetric flask volumetrically add 800mL cupric digestion solution W 31483 and fill to volume with DI H_2O. Exp (one month): 6/2/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W31447 0.8M Sodium Hydroxide
MS 4/25/13
Into a 1L volumetric flask dissolved 32g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 5/25/13

W31448 mwl 4/25/13 COD ICal Stock (1000mg/L)
Into a 200mL volumetric flask dissolve 0.17g Potassium Hydrogen Phthalate W 19521 and fill to volume with DI H_2O. Exp. (three months): 7/25/13

W31449 mwl 4/25/13 COD ICal using ICal Stock (1000mg/L) W 31448 and fill to a final volume of 100 mL with DI H_2O. Exp. (three months): 7/25/13

	ICal Stock (mLs)	True Value (mg/L)
A	0	0
B	1	10
C	2.5	25
D	5	50
E	10	100
F	50	500
G	75	750

W31450 mwl 4/25/13 COD CCV (~~400~~ 400 mg/L) 4-25-13 mwl
Into a ~~250mL~~ volumetric flask volumetrically added ~~100ml~~ 40ml ICal Stock (1000mg/L) W 31448 and fill to volume with DI H_2O. Exp. (three months): _____

W31451 mwl 4-26-13 IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9-22-13

W31452 EJC 4/26/13 2N KCl Extraction Solution
Into a 1L volumetric flask dissolve 149g potassium chloride W 30437 + W31166 and fill to volume with DI H_2O. Exp(one month): 5/26/13

W31453 EJC 4/26/13 NH_3 LCSS (1.25 mg/L)
Into a 50mL volumetric flask pipetted 0.0625mL NH_3/TKN LCS/ICV Stock 1000mg/L W 30902 and brought to volume with 2N KCl W 31452.
EXP. (two weeks) 5/10/13

W31454 EJC 4/26/13 Sodium Nitroprusside Reagent
Into a 500mL volumetric flask dissolved 1.75g sodium nitroprusside W 30504 and brought to volume with DI H_2O. EXP(1 month): 5/26/13

Read and Understood By

Signed Date Signed Date

W31402 CG 4/19/13 LL TPhos 8500 ICV/LCS (200µg/L)
Into a 50 mL volumetric flask pipette 1 mL LL TPhos ICV/ LCS working (10 mg/L) W 31288 and fill to volume with LL H_2SO_4 diluent W 31201.
Exp. (one month): 5/2/13

W31403 BMS 04/22/13 TOCW Ical./CCV Stock (1000 mg/L): Into a 100mL vol., dissolved 0.2128 g of KHP (W19521) and brought to volume with Milli Q H_2O Exp 10/22/13.

W31404 BMS 04/22/13 TOCW ICV/LCS Stock (1000mg/L): Into a 100mL vol, dissolved 0.2128 g of KHP (W29079) and brought to volume with Milli Q H_2O. Exp. 10/22/13.

W31405 BMS 04/22/13 TOCW CCV Std. (50mg/L): Into a 200 mL vol., pipetted 10.0 mL of W31403 and brought to volume with Milli Q H_2O. Exp 05/22/13.

W31406 BMS 04/22/13 TOCW LCS Std. (50mg/L): Into a 100mL vol, pipetted 5.0 mL of W31404 and brought to volume with Milli Q H_2O. Exp. 05/22/13.

W31407 CG 4/22/13 IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W 30257 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 5/22/13

W31408 EJC 4/22/13 Phenol Buffer
Into a 500mL volumetric flask dissolve 1g $K_3Fe(CN)_6$ W 22607, 1.55g boric acid W 25121, 1.875g KCl W 30437, volumetrically add 23.5mL 1N NaOH W 31232 and fill to volume with DI H_2O. Exp. (one week): 4/29/13

W31409 EJC 4/22/13 4-Aminoantipyrine Color Reagent
Into a 500mL volumetric flask dissolve 0.32g 4-AAP W 21897 and fill to volume with DI H_2O. Exp. (one day): 4/23/13

W31410 EJC 4/22/13 Cupric Digestion Solution
Into a 2L volumetric flask dissolve 268g potassium sulfate W 29696 and 14.6g copper sulfate W 29442 and slowly volumetrically add 268 mL H_2SO_4 W 31099 and fill to volume with DI H_2O. Exp(one month): 5/22/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W31361 4/15/13 CES — TPhos Cupric Molybdate Color Reagent 4/15/13 CES 17.7mL
Into a ~~1L~~ 500mL volumetric flask volumetrically add ~~35~~ 106.5mL H_2SO_4 W 31099, ~~213~~ mL stock Ammonium Molybdate W 31224, and ~~72~~ 38.4mL stock Antimony Potassium Tartrate W 31054 and fill to volume with DI H_2O. CES 4/15/13
Exp (one month): 4/26/13

W31362 4/15/13 CES — IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride
Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W 29801 and brought to volume with Milli-Q DI H_2O.
EXP (1 Month): 5/15/13

W31363 EJC 4/15/13 — IC CCV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC CCV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask piepetted 3.5 mL 1000 mg/L Nitrite W 30512 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 5/15/13

W31364 EJC 4/15/13 — IC NO_2 DW PT 284500: Into a 200mL vol pipetted 1mL PT stock 284500 t/brought to vol w/ Milli Q DI H_2O. exp: 4/16/13

W31365 CES 4/15/13 — Hydrochloric Acid - Fisher cat #A144C-212 lot# 123468

W31366 EJC 4/15/13 — Sulfide LCS 1000mg/L stock: Into a 200mL vol. dissolved 1.5g Na_2S flake W22510 t/brought to vol. w/ 0.25N NaOH W31347 t/v=1000mg/L exp: 5/15/13

W31367 EJC 4/15/13 — Sulfide CCSS: Into a glass jar pipetted 0.05mL Sulfide LCS stock W31366 into 0.5g sand W23481 t/added 10mL DI H_2O. t/v=100mg/kg exp: 4/15/13

W31368 CES 4/16/13 — NH_3 IL Hypochlorite
Into a 1L volumetric flask volumetrically add 60 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp (one day): 4/17/13

Read and Understood By

Signed | Date | Signed | Date

W31354 EJC 4/12/13
IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 29818, Phosphate W 30355, Bromide W 31339, and Nitrate W 30659, 15 ml 1000 mg/L Chloride W 31340, and 25 ml 1000 mg/L Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 5/12/13

W31355 EJC 4/12/13
LL OPhos CCV: Into a 100mL vol. pipetted 0.01mL PO_4 CCV/ICAL 1000mg/L stock W30355 & brought to vol. w/ Milli Q DI H_2O. tv=0.1mg/L exp: 5/12/13

W31356 EJC 4/15/13
$NO_2 + NO_3$ Color Reagent
Into a 1L volumetric flask volumetrically dissolve 40g sulfanilamide W 26417 and 1g N-(1-naphthyl)ethylenediamine dihydrochloride (NED) W 26416 volumetrically add 100mL phosphoric acid W 29144 and fill to volume with DI H_2O. Exp (one month): 5/15/13

W31357 CES 4/15/13
Pyridine Color Reagent
Into a 500 mL volumetric flask dissolved 7.5 g barbituric acid W 29946, volumetrically added 37.5 mL pyridine W 29349, and pipetted 7.5 mL hydrochloric acid W 29947 and brought to volume with DI H_2O.
EXP (1 week): 4/22/13

W31358 CES 4/15/13
Chloramine-T Reagent CES 4/15/13 1d
Into a ~~500~~ 250 mL volumetric flask dissolved ~~2~~ g chloramine-T W _____ and brought to volume with DI H_2O. EXP (24hr): 4/16/13

W31359 EJC 4/15/13
$NO_2 + NO_3$ ICV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_2 ICV/LCS stock (1000 mg/L) W 30257 and fill to volume with H_2SO_4 diluent W 31300.
Exp (~~one month~~): 4/22/13
EJC 4/15/13 week

W31360 CES 4/15/13
TPhos Cupric Ascorbic
Into a 250 mL volumetric flask dissolve 15g Ascorbic Acid W 31204 and 0.25g Sodium Dodecyl sulfate (SDS) W 30340 and fill to volume with DI H_2O.
Exp.(one day): 4/16/13

...ued on Page

Read and Understood By

Signed | Date | Signed | Date

W31347 0.25 M Sodium Hydroxide
US
4/12/13
Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 30844 and brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 5/12/13

W31348 Cyanide Std. Ricca Chemical Co, Cat # 2813-4, Lot # 4302373 Exp Aug2013
US
4/12/13

W31349 CN ICAL/CCV Working Standard (10mg/L)
4/12/13
US
Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 31348 and brought to volume with 0.25 M NaOH W 31347.
EXP (1 week): 4/19/13

CN ICAL
All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W 31347. EXP (1 Week): 4/19/13

W31380
4/11/13
US

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W31349	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

W31351 CN LCS/ICV Working Standard& Spike (10mg/L)
4/12/13
US
Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 29155 and brought to volume with 0.25 M NaOH W 31347.
EXP (1 week): 4/19/13

W31352 CN LCS/ICV (50 µg/L)
4/12/13
US
Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 31351 and brought to volume with 0.25 M NaOH W 31347.
EXP (1 week): 4/19/13

W31353 EJC
4/12/13
IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W31340 Chloride Std - Accu Trace 1000 mg/L cat # 250-220-371
4/11/13 lot # S12090501D exp 4/11/14

TKN Buffer Reagent
W31341 Into a 2L volumetric flask dissolved 40g EDTA W 31186, 70g sodium phosphate dibasic heptahydrate W 31195, and 100g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 5/11/13
WS 4/11/13

0.8M Sodium Hydroxide
W31342 Into a 1L volumetric flask dissolved 32g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 5/11/13
WS 4/11/13

W31341 NH_3 Undistilled ICAL (2.5mg/L)
4-12-13 Into a 100mL volumetric flask pipetted 0.25mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 29537 and brought to volume with H_2SO_4 Diluent W 31300.
mml EXP. (two weeks): 4-26-13

W31342 NH_3 Undistilled CCV (1.25mg/L)
4-12-13 Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 29537 and brought to volume with H_2SO_4 Diluent W 31300. EXP. (two weeks): 4-26-13
mml

W31343 NH_3 Undistilled ICV/LCS (1.25mg/L)
4-12-13 Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 30902 and brought to volume with H_2SO_4 Diluent W 31300. EXP. (two weeks): 4-26-12
mml

W31344 Sodium Phenolate Color Reagent
mml Into a 500mL volumetric flask dissolved 16g NaOH W 30844 and volumetrically added 44mL phenol W 30049 and brought to volume with DI H_2O.
4-12-13 EXP(1 week): 4-19-13

W31345 NH_3 Sodium Hypochloride
mml Into a 500mL volumetric flask volumetrically added 250mL Bleach W 31307 and brought to volume with DI H_2O. EXP(24 hours): 4-13-13
4-12-13

W31346 NH_3 LCSS (1.25 mg/L)
mml Into a 50mL volumetric flask pipetted 0.0625mL NH_3/TKN LCS/ICV Stock 1000mg/L W 30902 and brought to volume with 2N KCl W 31294.
4-12-13 EXP. (two weeks) 4-26-12

on Page

Read and Understood By

W31333 CES 4/10/13
Alkalinity ICV/LCS Stock (2500mg/L)
Into a 250mL volumetric flask dissolve 0.6625g Na_2CO_3 W 28300 and fill to volume with CO_2 free DI H_2O. Exp. (one month): 5/14/13

W31334 CES 4/10/13
Alkalinity LCS (375mg/L)
Into a 200mL volumetric flask pipette 30mL LCS/ICV stock (2500mg/L) W 29 and fill to volume with CO_2 free DI H_2O. Exp. (one month): 5/10/13

W31335 EJC 4/10/13
TPhos 8500 0.72N Sulfuric Acid Carrier
Into a 2L volumetric flask volumetrically add 76 mL trace metal grade H_2SO_4 W_____ _____ and dissolve 10g NaCl W 30481 and 2g SDS W 30340 and fill to volume with DI H_2O. Exp. (one month): 5/10/13

W31336 EJC 4/10/13
TPhos 8500 Digestion Solution #1
Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W_____ 31293 and fill to volume with DI H_2O. Exp. (one month): 5/10/13

W31320 4/11/13 KS
TKN Hypochlorite
Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp. (one day): 4/12/13

W31337 CES 4/11/13
IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 31339, Nitrate W 30609 and Phosphate W 30355 and 25.6 mL 1000 mg/L Chloride W ~~25933~~ W31343 and Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 5/11/13
CES 4/11/13

W31338 CES 4/11/13
6N HCl - Into a 500mL vol volumetrically add clear 250mL HCl W_____ & filled to vol w/ DI H_2O.
exp 4/11/14

W31339 CES 4/11/13
CES 4/11/13
Bromide Std - AccuSpec cat # ~~22~~ 250-220-236 1,000 ug/mL
exp 4/11/14 lot # S21205026

Continued on Page

Read and Understood By

Signed Date Signed Date

W31310 mal 4-5-13

IC Eluent

Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.

Exp: 9-22-13

W31311 BMB 04/05/13 TOCS MDL Study (1000 mg/kg): Weighed up ~1.3mg of Dextrose (W23772). 8 reps analyzed.

W31312 CES 4/8/13

NO_2+ NO_3 ICal (20 mg/L)

Into a 100 mL volumetric flask pipette 2mL NO_3 ICAL/CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 31300.

Exp (one ~~month~~ week): 4/15/13 4/8/13 CES

W31313 CES 4/8/13

NO_2 + NO_3 ICV (5 mg/L)

Into a 100 mL volumetric flask pipette 0.5 mL NO_2 ICV/LCS stock (1000 mg/L) W 30257 and fill to volume with H_2SO_4 diluent W 31300.

Exp (one ~~month~~ week): 4/15/13 CES 4/8/13

W31314 CES 4/8/13

NO_2 + NO_3 CCV (5 mg/L)

Into a 100 mL volumetric flask pipette 0.5 mL NO_3 ICal/ CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 31300.

Exp (one ~~month~~ week): CES 4/8/13

W31315 CES 4/8/13

NO_2 + NO_3 LCS (5 mg/L)

Into a 100 mL volumetric flask pipette 0.5 mL NO_3 ICV/LCS stock (1000 mg/L) W 31174 and fill to volume with H_2SO_4 diluent W 31300.

Exp (one ~~month~~ week): ~~4/18/13~~ 4/15/13 CES 4/8/13

W31316 ESC 4/8/13

IC Nitrite and Fluoride Spike Standard (64 mg/L Nitrite and 32 mg/L Fluoride)

Into a 100 mL volumetric flask pipetted 6.4 mL 1000 mg/L Nitrite W 30512 and 3.2 mL 1000 mg/L Fluoride W 29818 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 5/8/13

W31317 ESC 4/8/13

VFA Eluent: Into a 2L vol. added 50mL Eluent stock W31129 & brought to vol. w/ Milli Q DI H_2O.

Exp: 5/8/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W31207 EJC 3/21/13
IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W 30257 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 4/21/13

W31208 EJC 3/21/13
IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W31209 EJC 3/21/13
IC ICAL Mixed Standard (50 mg/L):
Into a 100 mL volumetric flask pipetted 5 mL of 1000 mg/L Nitrite W 30512, Fluoride W 29818, Bromide W 28647, Nitrate W 30659, and Phosphate W 30355 and brought to volume with Milli-Q DI H_2O.
EXP (48 Hours): 3/23/13

W31210 EJC 3/21/13
IC ICAL
Prepared in 100 mL volumetric flasks and brought to volume with Milli-Q DI H_2O.

	1	2	3	4	5	6	7	8
mLs Mixed Std 50mg/L W 31209	0	0.2	1.0	2.0	4.0	10.0	14.0	28.0
mLs Chloride 1000mg/L W 28933	0	0.05	0.1	0.5	1.0	2.0	3.0	4.0
mLs Sulfate 1000mg/L W 30942	0	0.05	0.1	0.5	1.0	3.0	5.0	7.0

EXP (48 Hours): 3/23/13

W31211 EJC 3/21/13
TPhos Cupric Ascorbic
Into a 250 mL volumetric flask dissolve 15g Ascorbic Acid W 31004 and 0.25g Sodium Dodecyl sulfate (SDS) W 30340 and fill to volume with DI H_2O.
Exp(one day): 3/22/13

W31212 LTS 3/22/13
Phenolics ICAL Working (1000 µg/L)
Into a 100 mL volumetric flask pipette 0.1mL Phenol ICal/CCV Stock (1000mg/L) W 26909 and fill to volume with DI H_2O. Exp. (one week): 3/29/13

W31213 LTS 3/22/13
Phenolics CCV (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICal/CCV Stock (1000mg/L) W 26909 and fill to volume with DI H_2O. Exp. (one week): 3/29/13

W31214 LTS 3/22/13
Phenolics LCS (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICV/LCS Stock (1000mg/L) W 30826 and fill to volume with DI H_2O. Exp. (one week): 3/29/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W30930
2/7/13 ESC

NO_2+ NO_3 ICal (20 mg/L)
Into a 100 mL volumetric flask pipette 2mL NO_3 ICAL/CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 30836.
Exp ~~(one month)~~ Two weeks: 2/21/13

W30937
2/7/13 ESC

NO_2 + NO_3 CCV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_3 ICal/ CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 30836.
Exp ~~(one month)~~ Two weeks: 2/21/13

W30938 ESC
2/8/13

TPhos 8500 Digestion Solution #1
Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W ____ W30343 and fill to volume with DI H_2O. Exp. (one month): 3/8/13

ESC 2/8/13

W30939
2/8/13 ESC

TPhos 8500 Digestion Solution #2
Into a 2L volumetric flask dissolve 52g potassium persulfate W 30366 and fill to volume with DI H_2O. Exp. (one month): 3-8-13

W30940 ESC
2/8/13

TPhos 8500 Ascorbic
Into a 500 mL volumetric flask dissolve 35g ascorbic acid W 30693 and 0.5 g SDS W 30340 and fill to volume with DI H_2O. Exp. (two days): 2/9/13

W30941 ESC
2/8/13

LL TPhos 8500 H_2SO_4 Diluent
Into a 2L volumetric flask pipette 4 mL trace metal grade H_2SO_4 W 30343 and fill to volume with DI H_2O. Exp. (three months): 5/8/13

W30942
WS 2/8/13

Sulfate ICal-CCV Stock 1000mg/L, AccuSPEC, 250-220-70
Lot: S12090401 EXP: 06/14 or 12 mo; 2/8/14

W30943
WS
2/8/13

IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride.
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 29818, Phosphate W 30355, Bromide W 28047, and Nitrate W 30659, 15 ml 1000 mg/L Chloride W 29933, and 25 ml 1000 mg/L Sulfate W 30942 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 3/8/13

W30655 CES 12/20/12

CN Buffer Reagent
Into a 500 mL volumetric flask dissolved 48.5 g potassium phosphate monobasic W 30657 and brought to volume with DI H_2O.
EXP (1 month): 1/20/13

W30656 CES 12/20/12

Pyridine Color Reagent
Into a 500 mL volumetric flask dissolved 7.5 g barbituric acid W 29946, volumetrically added 37.5 mL pyridine W 29349, and pipetted 7.5 mL hydrochloric acid W 29947 and brought to volume with DI H_2O.
EXP (1 week): 12/27/12

W30657 CES 12/20/12

Potassium Phosphate Monobasic – Fisher cat # P285-500
lot # 116029

W30658 CES 12/21/12 CES 12/21/12

IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 28647, Nitrate W 30659, and Phosphate W 30355 and 25.6 mL 1000 mg/L Chloride W 28933 and Sulfate W 28930 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 1/21/13

W30659 CES 12/21/12

Nitrate std – Fisher cat # 250-220-521 – lot # 5120328049
exp 12/21/13

W30660 12/22/12 CES

TKN Buffer Reagent
Into a 2L volumetric flask dissolved 40g EDTA W 28198, 70g sodium phosphate dibasic heptahydrate W 28158, and 100g NaOH W 29942 and brought to volume with DI H_2O. EXP(1 month): 1/22/13

W30661 CES 12/22/12

NH_3 IL Borate Buffer
Into a 500 mL volumetric flask dissolve 2.5g sodium tetraborate decahydrate W 23610 and 11g NaOH W 29842 and fill to volume with DI H_2O.
Exp (one month): 1/22/13

W30661 CES 12/22/12

NH_3 IL Buffer
Into a 1L volumetric flask dissolve 30g NaOH W 29842, 25g EDTA W 28193 and 67g Sodium Phosphate Dibasic Heptahydrate W 28156 and fill to volume with DI H_2O. Exp (one month): 1/22/13

W30514 EJC 11-30-12

IC ICAL Mixed Standard (50 mg/L):
Into a 100 mL volumetric flask pipetted 5 mL of 1000 mg/L Nitrite W 30512, Fluoride W 29818, Bromide W 28647, Nitrate W 27863, and Phosphate W 30355 and brought to volume with Milli-Q DI H_20.
EXP (48 Hours): 12-1-12

W30515 EJC 11-30-12

IC ICAL
Prepared in 100 mL volumetric flasks and brought to volume with Milli-Q DI H_20.

	1	2	3	4	5	6	7	8
mLs Mixed Std 50mg/L W30514	0	0.2	1.0	2.0	4.0	10.0	14.0	28.0
mLs Chloride 1000mg/L W28933	0	0.05	0.1	0.5	1.0	2.0	3.0	4.0
mLs Sulfate 1000mg/L W28930	0	0.05	0.1	0.5	1.0	3.0	5.0	7.0

EXP (48 Hours): 12-1-12

W30516 CES 12/1/12

IC CCV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC CCV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask piepetted 3.5 mL 1000 mg/L Nitrite W 30512 and brought to volume with Milli-Q DI H_20. EXP (1 month): 1/1/13

W30517 CES 12/1/12

IC Nitrite and Fluoride Spike Standard (128 mg/L Nitrite and 32 mg/L Fluoride)
Into a 100 mL volumetric flask pipetted 12.8 mL 1000 mg/L Nitrite W 30512 and 3.2 mL 1000 mg/L Fluoride W 29818 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 1/1/13

W30518 CES 12/1/12

IC Eluent - Into a large carboy pipetted 20mL dense conc. W29853 & filled to a final vol of 10L w/ milli-Q H2O
exp 9/22/13

W30519 CES 12/3/12

NH_3 LCSS - Into a 50mL vol pipetted 0.0625mL NH_3/TKN LCS stock W30060 & filled to vol w/ 2M KCl soln W30436
exp 12/10/12 TV = 1.25 mg/L

W30520 CES 12/3/12

NH_3 MDLS study - Into 8 50mL vol pipetted 0.01mL W30060 & filled to vol w/ 2M KCl soln W30436
exp 12/10/12 TV = 0.2 mg/L

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Notebook No. _____ 3

PROJECT _____ Continued From Page _____

W30505 CES 11/28/12 — TKN hypochlorite – Into a 500mL vol volumetrically added 30mL bleach W29883 + filled to vol w/ dI H2O. exp 11/29/12

W30506 CES 11/29/12 — NO2+NO3 Ical (20mg/L) – Into a 100mL vol pipetted 2mL NO3 Ical/CCV stock W27863 + filled to volw/ H2SO4 diluent W30273 exp 12/6/12

W30507 CES 11/29/12 — NO2+NO3 CCV (5mg/L) – Into a ~~5~~ CES 11/29/12 100mL vol pipetted 0.5mL NO3 Ical/CCV stock W27863 +filled to vol w/ H2SO4 diluent W30273. exp 12/6/12

W30508 CES 11/29/12 — NO2+NO3 ICV (5mg/kg/L) – Into a 100mL vol pipetted 0.5mL NO2 ICV/LCS Stock W30257 + filled to volw/ H2SO4 diluent W30273. exp 12/6/12

W30509 CES 11/29/12 — NO2+NO3 LCS (5mg/L) – Into a 100mL vol pipetted 0.5mL NO3 ICV/LCS stock ~~W30~~ CES 11/29/12 W28693 +filled to volw/ ~~dI~~ H2O4 CES 11/29/12 diluent W30273. exp 12/6/12

W30510 CES 11/29/12 — LJS TSS IDC – Into a 250mL vol dissolved 0.1g Diatomaceous earth W24339 + filled to volw/ dI H2O. exp 12/28/12 TV = 400mg/L

W30511 CES 11/29/12 — Thios Soil Cupric Ascorbic – Into a 250mL vol dissolved 11/29/12 5g ascorbic W29826 + 0.25g SDS ~~W25574~~ W30340 + filled to vol w/ dI H2O. exp 11/30/12

W30512 EJC ~~11/29/12~~ 11/30/12 EJC 11-30-12 — Nitrite as N 1000 mg/L : AccuSPEC Cat# 250-220-551 Lot # 5120308003 exp: 11/30/13

W30513 EJC 11/30/12 — ICNO2 ICAL : Into 6 seperate 100mL vol pipetted 0.5, 0.2, 0.1, 0.05, 0.01, +0 mL NO2 1000mg/L ICAL/CCV stock W30512 & brought to vol. w/ MilliQ DI H2O. exp: 12-1-12 EJC

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

PROJECT

Notebook No. 97

Continued From Page

W30451 GES 11/20/12 — Alk LCS (375 mg/L) - Into a 200mL vol pipetted 30mL W30449 + filled to vol w/ CO_2 free dI H_2O exp 12/20/12

W30452 GES 11/20/12 — Alk ICV (75 mg/L) - Into a 100mL vol pipetted ea 3mL W30449 filled to vol w/ CO_2 free dI H_2O. exp 12/20/12

W30453 GES 11/20/12 — Alk Trace exp 12/20/12

	mLs W30450	final vol CO_2 free dI H_2O
A	30	100
B	25	
C	20	
D	15	
E	10	
F	5	
G	3	
H	1	
I	0	

W30454 GES 11/20/12 — KHP Buffer - Into a beaker dissolved 2.5g KHP ~~W28~~ W29079 GES 11/20/12 in 450mL CO_2 free dI H_2O. + 42.5mL 0.1 M HCl + adj to 3.1 ± 0.05 exp 11/27/12

W30455 EJC 11/20/12 — IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)

Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 28647, Nitrate W 27863, and Phosphate W 30355 and 25.6 mL 1000 mg/L Chloride W 28933 and Sulfate W 28930 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 12/20/12

W30456 EJC 11/20/12 — IC Eluent: Into a carboy pipetted 20mL Eluent Concentrate W29953 & brought to vol. w/ Milli-Q DI H_2O. exp: 9/22/13

W30457 GES 11/20/12 — Carb soil dig soln - Into a 2L vol dissolved 40g NaOH W29842 + 60g Sodium carbonate anhydrous W28225 + Filled to vol w/ dI H_2O. exp 11/20/13

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W30419 11-16-12 mm

0.25 M Sodium Hydroxide

Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 29842 and brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 12-16-12

W30420 11-16-12 mm

CN ICAL/CCV Working Standard (10mg/L)

Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 28755 and brought to volume with 0.25 M NaOH W 30419.

EXP (1 week): 11/23/12

W30421 11-16-12 mm

CN ICAL

All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W 30419. EXP (1 Week):

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W30420	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

W30422 11-16-12 mm

CN LCS/ICV Working Standard& Spike (10mg/L)

Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 30258 and brought to volume with 0.25 M NaOH W 30419.

EXP (1 week): 11/23/12

W30423 11-16-12 mm

CN LCS/ICV (50 µg/L)

Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 30422 and brought to volume with 0.25 M NaOH W 30419.

EXP (1 week): 11/23/12

W30424 11/16/12 mm

IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed Standard to equal a value of 3.5 mg/L Nitrite

Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W 30257 and brought to volume with Milli-Q DI H_20. EXP (1 month): 12/16/12

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W30368 ESC 11/8/12 — LJS TSS IDC: Into a 250mL vol. added 0.125g diatomaceous earth W24339 & brought to vol. w/ DI H_2O. exp: 12/8/12 tv = 500 mg/L

W30369 ESC 11/8/12 — LJS TSS BSW: Into a 100mL vol. added 0.125g diatomaceous earth W24339 & brought to vol. w/ DI H_2O. exp: 12/8/12 tv = 1250 mg/L

W30370 11/9/12 mcl

IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W 29809 and brought to volume with Milli-Q DI H_2O.

EXP (1 Month): 12/9/12

W30371 ESC ~~11/8/12~~ 11/9/12 ESC 11/4/12 — Phenolics Buffer: Into a 500mL vol. dissolved 1g $K_3Fe(CN)_6$ W22607, 1.55g Boric Acid W25121, 1.875g pot. chloride W30205 & volumetrically added 23.5mL 1M NaOH W30124 & brought to vol. w/ DI H_2O exp: 11/18/12

W30372 ESC 11/9/12 — 4AAP: Into a 500mL vol. dissolved 0.32g 4AAP W21897 & brought to vol. w/ DI H_2O. exp: 11/10/12

W30373 ESC 11/9/12 — Ascorbic Acid TP 8500: Into a 1L vol. dissolved 70g ascorbic acid W29826 & 1g SDS W30340 & brought to vol. w/ DI H_2O. exp: 11/10/12

4 LJS 11/12/12

W30374 LJS 11/12/12 — SULFIDE LCS - Into 200mL vol pipetted 1mL W30275 and filled w/ DI H_2O Exp 11/13/12

W30375 ESC 11/12/12 — NH_3 IL Buffer: Into a 1L vol. dissolved 30g NaOH W29842, 25g EDTA W28198, & 67g sodium phosphate dibasic heptahydrate W28158 & brought to vol. w/ DI H_2O exp: 12-12-12

Continued on Page

Read and Understood By

Signed | Date | Signed

W30352 GS 11/7/12 — TKN/TPhos Ical working (250 mg/L) - Into a 250mL vol pipetted 25mL TKN Ical stock W29537 exp 12/7/12 + 20mL phos Ical stock W28940 + filled to vol w/ dH2O. (11/7/12 GS)

W30353 GS 11/7/12 — TKN/TPhos Ical - pipetted W30352 + filled to vol w/ cupric dilut W30297 exp 12/7/12

	mLs	into	IV	corrected val
A	8	100	20	21.0
B	~~32~~ 3.2	~~500~~ 50	16	16.8
C	10	250	10	10.5
D	0.8	50	4	4.2
E	0.4	50	2	2.1
F	0.2	50	1	1.05
G	0.04	50	0.2	0.21
H	0	50	0	0

W30354 GS 11/7/12 — TKN/TPhos ICV - Into a 100mL vol pipetted 0.476mL Stock W + 0.476mL TPhos ICV/ICCS W + filled to vol w/ dilut W30297. exp 12/7/12 (GS 11/7/12) TKN ICV/CCS

W30355 GS 11/7/12 — Phosphorous Std - Accu Trace Cat # 250.220.611 lot # S120329021 exp 11/7/13

W30356 ESC 11/7/12 — LL TP 8500 MDL Study: Into 8 separate 100mL vol. pipetted 0.35mL LL TP 8500 ICV/CCS working W30310 & brought to vol w/ Diluent W30308 tv=35mg/L exp: 11/14/12 (ESC 11-7-12)

W30357 ESC 11/7/12 — TP 8500 Molybdate: Into a 500mL vol. ~~pipetted~~ volumetrically added 106.5mL Moly stock W30108 & 36mL antimony stock W30299 & dissolved 11.1g NaOH W29842 & brought to vol. w/ DI H2O. exp: 12/7/12

W30358 ESC 11/7/12 — Molybdate Stock: Into a 1L vol. dissolved 40g Molybdate W28833 & brought to vol. w/ DI H2O & Stirred for 4 hours. exp: 1/7/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W30257 CB 10/30/12 Nitrite Std - Spex CertiPrep cat # AS-NO2N9-2Y lot # 3'-4NO2N-2

W30258 mwl 10/30/12 CN Std. 1000 mg/L Ricca cat # 2543-4 lot # 4209480 exp 3/13

W30259 mwl 10/30/12

CN LCS/ICV Working Standard (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 30258 and brought to volume with 0.25 M NaOH W 30261.
EXP (1 week): 11/6/12

W30260 mwl 10/30/12

CN LCS/ICV (50 µg/L)
Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 30259 and brought to volume with 0.25 M NaOH W 30261.
EXP (1 week): 11/6/12

W30261 mwl 10/30/12

0.25 M Sodium Hydroxide
Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 29842 and brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 11/30/12

W30262 mwl 10/30/12

CN ICAL/CCV Working Standard (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 28755 and brought to volume with 0.25 M NaOH W 30261.
EXP (1 week): 11/6/12

W30263 mwl 10/30/12

CN ICAL 10-30-12 mwl
All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W ~~30262~~ 30261 EXP (1 Week): 11/6/12

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W30262	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

Signed Date Signed Date

29950 mM KHP Buffer into a beaker dissolved 2.5g KHP W29079
9-21-12 in 450mL Cmp free DI H_2O volumetrically added 92.5mL of 1M HCl
W29078 & adj pH to 8.1 ± 0.05 exp 9-28-12

29951 EJC TP NaOH: Into a 500mL vol. dissolved 52.5g NaOH
9/22/12 W29842 & brought to vol. w/ DI H_2O. Degassed & added ~
4mL FFDG W29018 exp: 9/29/12

29952 EJC TP Sulfuric: Into a 500mL vol. volumetrically added
9/22/12 67.5mL TMG H_2SO_4 W28718 & brought to vol w/ DI
H_2O. Degassed & added ~0.25mL FFDG W 29018
exp: 9/29/12

29953 mM IC eluent concentrate into a 1L vol. Slowly added
9/22/12 W28395
185.5g Sodium Carbonate & 42g Sodium Bicarbonate & brought
to Vol. w/ DI H_2O exp 9/22/13 W25134

29954 EJC TP ICAL (100 mg/L) Into a 200mL vol. pipetted 20mL
9/22/12 PQ ICAL/CCV 1000 mg/L stock W28943 & brought to
vol. w/ H_2SO_4 Dilvent ~~W28943~~ W29948. exp: 9/29/12
EJC 9/22/12

TP SAN
29955 EJC Ascorbic: Into a 1L vol. dissolved 11g ascorbic acid
9/22/12 W29626 & brought to vol. w/ DI H_2O. exp. 9/23/12

29956 EJC TP UV Dig V stock (100 mg/L) Into a 1L vol. dissolved
9/22/12 0.3959g sodium triphosphate W26401 & brought to
vol. w/ DI H_2O. exp: 10/22/12

29957 EJC TPhos (Cupric) Molybdate - Into a 500mL vol. dissolved
9/22/12 volumetrically added 100.5mL moly stock W29831, 30mL antimony stock
W29832, & 17.5mL sulfuric acid W28718 & filled to
vol w/ DI H_2O. exp 10/22/12

29958 EJC TPhos (Cupric) Ascorbic - Into a 250mL vol dissolved
9/22/12 15g ascorbic W29826 & 0.5g SDS W25574 & filled
to Vol w/ DI H_2O. exp 9/23/12

Continued on Page

Read and Understood By

EJC 1-4-13
Signed Date Signed Date

W29813 BMS 09/10/12 — TOCW Ical: Into 7 50mL vol.) pipetted 0, 0.05, 0.25, 0.5, 1.25, 2.5, and 5.0 mL of 1000 mg/L Ical/CCV Stock (W29589) and brought to volume with Milli Q H_2O. Exp. 10/10/12

W29814 ESC 9/10/12 — TKN Buffer: Into a 2 L vol. dissolved 100g potassium sodium tartrate W 28695 + W29817, 67.2g disodium hydrogen phosphate dihydrate W 28421, +40g NaOH W28869 +brought to vol. w/DI H_2O. Degassed + added ≈4mL Brij W28801, exp: 10/10/12

W29815 ESC 9/10/12

IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 29818, Phosphate W 28943, Bromide W 28647, and Nitrate W 27863, 15 ml 1000 mg/L Chloride W 28933, and 25 ml 1000 mg/L Sulfate W 29030 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 10/10/12

W29816 ESC 9/10/12

IC Nitrite and Fluoride Spike Standard (128 mg/L Nitrite and 32 mg/L Fluoride)

Into a 100 mL volumetric flask pipetted 12.8 mL 1000 mg/L Nitrite W 27608 and 3.2 mL 1000 mg/L Fluoride W 29816 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 10/10/12

W29817 ESC 9/10/12 — Sodium Potassium Tartrate Tetrahydrate: Fisher Cat# S387-500 Lot# 120354 exp: 9/10/17

W29818 ESC 9/10/12 — Fluoride Std- Aquapec Cat# 250-220-401 lot# 3120206004 exp 9/10/13

W29819 ESC 9/10/12 — NaCl Reagent: Into a 2L vol. dissolved 80g NaCl W29369 +brought to vol. w/DI H_2O. Degassed & added ≈1mL Brij W28801 exp: ~~9/10/12~~ 10/10/12 ESC 9/10/12

W29820 ESC 9/10/12 — Hypochlorite: Into a 1 L vol. volumetrically added 570mL Bleach W29678 +brought to vol. w/DI H_2O. exp: 9/11/12

W29821 ESC 9/10/12 — TKN ICV (10mg/L) Into a 50mL vol. pipetted 0.476mL NH_3 ICV/CCS 1000mg/L stock W29098 +brought to vol. w/Cupric Nit W29811. exp: 9/17/12

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W29797 ESC 9/6/12 — 5.6 N H_2SO_4: Into a 500mL vol. pipetted 155mL TMG H_2SO_4 W28781 + brought to vol. w/DI H_2O. exp: 9/6/13

W29798 ESC 9/6/12 — Ammonium persulfate: Into a 200mL vol. dissolved 80g ammonium persulfate W29423 + brought to vol. w/DI H_2O. exp: 9/13/12

W29799 ESC 9/6/12 — LL TP LCS working (10mg/L) Into a 100mL vol. pipetted 1mL PO_4 ICV/LCS 1000mg/L stock W28063 + brought to vol. w/DI H_2O. exp: 9/13/12

W29800 ESC 9/6/12 — LL TP LCS (50ug/L) Into a 200mL vol. pipetted 1mL LL TP LCS working 10mg/L W29799 + brought to vol. w/DI H_2O. exp: 9/13/12

W29801 ESC 9/6/12 — LL TP LOQ WV (20ug/L) Into a 100mL vol. pipetted 0.2mL LL TP LCS working 10mg/L W29799 + brought to vol. w/DI H_2O. exp: 9/13/12

W29802 ESC 9/6/12 — LL TP LOQ WV (10ug/L) Into a 50mL vol. pipetted 0.25mL LL TP LOQ WV 20ug/L W29801 + brought to vol. w/DI H_2O. exp: 9/13/12 ESC 9/6/12

W29803 ESC 9/7/12 — IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W27917 and brought to volume with Milli-Q DI H_2O.
EXP (1 Month): 10/7/12

W29804 ESC 9/7/12 — IC LCS/ICV mixed Custom Mix- Spex Certi Prep. cat # VCIWI-3-500 lot # 2-79 JKS 1250mg/L SO_4, 750mg/L Cl 175 mg/L Br, F, NO_3, PO_4 exp 9/7/13

9/13/12 MS

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W28929 RD 5/15/12 Nitrocellulose Spiking Std. - Into a 100 mL Volumetric Flask added 0.5006 g of V0C043537 & brought to Volume with Acetone (J.T Baker, Cat.# 9254-03, Lot# J14E52). Exp: 5/15/13 (5006 mg/L).

W28930 mM 5/15/12 Soy Std. 1000mg/L AccuSpec cat# 250-220-701 lot# S1109290009 exp 5/15/13

W28931 mM 5/15/12 IC ICAL Mixed Standard (50 mg/L):
Into a 100 mL volumetric flask pipetted 5 mL of 1000 mg/L Nitrite W 27602, Fluoride W 27048, Bromide W 28647, Nitrate W 27863, and Phosphate W 27453 and brought to volume with Milli-Q DI H_2O.
EXP (48 Hours): 5/17/12

W28932 mM 5/15/12 IC ICAL
Prepared in 100 mL volumetric flasks and brought to volume with Milli-Q DI H_2O.

	1	2	3	4	5	6	7	8
mLs Mixed Std 50mg/L W28931	0	0.2	1.0	2.0	4.0	10.0	14.0	28.0
mLs Chloride 1000mg/L ~~W26507~~ W28933	0	0.05	0.1	0.5	1.0	2.0	3.0	4.0
mLs Sulfate 1000mg/L W 28930	0	0.05	0.1	0.5	1.0	3.0	5.0	7.0

EXP (48 Hours): 5/17/12 5/15/12 mM

W28933 mM 5/15/12 CL Std. 1000 mg/L AccuSpec cat# 250-220-371 lot# S1202020001 exp 5/15/13

W28934 dem 5/15/12 TKN Cupric Dig. Soln: Into 2 seperate 2L vol. flasks dissolve 268g potassium Sulfate W28819, W28935 & 14.6g Copper Sulfate W26399 & vol. add 268mL H_2SO_4 W28872 & fill to vol. w/ DI H_2O. Combine in vessel to 4L X: 6/15/12

W28935 dem 5/15/12 Potassium Sulfate EMD cat# PX1595-6 lot: A0286921 120

W28936 EJC 5/15/12 Phenolics ~~TCK~~ ICAL 5/15/12 working: Into a 200mL vol. pipetted 2mL W26909 & brought to vol. w/ DI H_2O exp: 5/22/12 tv=10mg/L

W28937 EJC 5/15/12 Phenolics ICAL: Into a 100mL vol. pipetted 10mL W28936 & brought to vol. w/ DI H_2O. exp: 5/22/12 tv=1000mg/L

Continued on Page

Read and Understood By

Signed Date Signed Date

W28646 mkml 4/10/12 IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)
Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 28647, Nitrate W 27863, and Phosphate W 27453 and 25.6 mL 1000 mg/L Chloride W 26507 and Sulfate W 26573 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 5/10/12

W28647 mml 4/10/12 Bromide std. 1000mg/L AccuSpec cat# 250-220-236 exp 4/2013

W28648 ESC 4/10/12 TKN Diluent: In a large carboy volumetrically added 8L TKN Dig Soln W28634 & brought to a final vol. of 7.5L w/DI H_2O. exp: 5/10/12

W28649 ESC 4/10/12 TKN ICAL (60mg/L): Into a 200mL vol. pipetted 12mL NH_3 ICAL/CCV 1000mg/L stock W28406 & brought to vol. w/ TKN Dilwt W28648 exp: 4/17/12

W28650 ESC 4/10/12 TKN ICV (10mg/L): Into a 50mL vol. pipetted 0.476mL NH_3 LCS/FCV 1000mg/L W28393 & brought to vol. w/TKN Dilwt W28648 exp: 4/17/12

W28651 ESC 4/10/12 NaCl: Into a 2L vol. dissolved 80g NaCl W25607 & brought to vol. w/DI H_2O. exp: 5/10/12

W28652 ESC 4/10/12 TKN Hypochlorite: Into a 1L vol. volumetrically added 570mL Bleach W28428 & brought to vol. w/DI H_2O exp: 4/11/12

W28653 Lau 4/10/12 0.25 M Sodium Hydroxide
Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 28199 and brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 5/10/12

W28654 W28653 Lau 4/10/12 CN Dist W high std: Into a 100mL vol. flask, pipet 0.75mL W28610 & bring to vol. w/ 0.25M NaOH W28653

W28655 Lau 4/10/12 CN Dist W low std: Into a 100mL vol. flask, pipet 20mL level 1 W28613 & bring to vol. w/ 0.25M NaOH W28653

Continued on Page

Read and Understood By

Signed Date Signed Date

W28302 QES
3/1/12

0.25 M Sodium Hydroxide

Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 23199 and brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 4/1/12

W28303 LAM
3/1/12

IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W 27817 and brought to volume with Milli-Q DI H_20.
EXP (1 Month): 4/1/12

W28304 QES
3/1/12

Ascorbic Reagent - Into a 250mL vol dissolved 15g Ascorbic W27710 L 0.25g SDS W25582 & filled to vol w/ dI H_2O
exp 3/2/12

W28305 mml
3/8/12

Sodium Carbonate Anhydrous cat# BDH0284-500g
lot# 105576

W28306 ESC
3/8/12

Phenolics Buffer: Into a 500mL vol. dissolved 1g $K_3Fe(CN)_6$ W22607, 1.55g Boric Acid W25121, 1.875g KCl W28153, + volumetrically added 23.5ml 1N NaOH W27844 + brought to vol. w/ DI H_2O exp: 3-9-12

W28307 ESC
3/2/12

4AAP: Into a 250ml vol. dissolved 0.1g 4AAP W28997 & filled to vol. w/ DI H_2O exp: 3/3/12

W28308 Bms
03/02/12

TOCW Ical/CCV Stock (1000 mg/L): Into a 100mL vol., dissolved 0.2128g KHP W19521 and brought to volume with Milli Q H_2O. Exp. 09/02/12

W28309 Bms
03/02/12

TOCW ICV/LCS stock (1000 mg/L): Into a 100mL vol., dissolved 0.2128g KHP W23082 and brought to volume with Milli Q H_2O. Exp: 09/02/12

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W27862 ESC 1-4-12 — IC LL NO_3 CCV: Into a 200mL vol. pipetted 0.2mL NO_3 1000mg/L ICAL/CCV stock W27863 & brought to vol. w/ Milli Q DI H_2O. exp: 2-4-12

W27863 ESC 1-4-12 — NO_3 1000mg/L as N ICAL/CCV stock: ACCU SPEC Cat#250-220-521 Lot# 511060901O exp: 1-4-13

W27864 ESC 1-4-12 — LL NO_2 Spike: Into a 100mL vol. pipetted 5mL NO_2 1000mg/L ICV/LCS stock W27831 & brought to vol. w/ Milli Q DI H_2O. tv= 50mg/L exp: 2-4-12

0.02 ESC 1-4-12

W27865 ESC 1-4-12 — IC LL NO_2 + PO_4 LCS: Into a 100mL vol. pipetted ~~0.04~~ mL PO_4 1000mg/L ICV/LCS stock W25886 & 0.1mL NO_2 ICV/LCS 1000mg/L stock W27831 & brought to vol w/ Milli Q DI H_2O. tv= 1mg/L NO_2 & 0.2mg/L PO_4^- exp: 2-4-12

W27866 dm 1/5/12 — Cr^{+6} S/CAL: Into 5 50mL vol. pipet 0, 1, 2.5, 5, 10mL W26141 & fill to vol w/ diluent W27869 x: 1/12/12

5mL ESC 1-5-12 1/5/12

W27867 dm 1/5/12 — Cr^{+6} S ICV/LCS: Into a 50mL vol. pipet ~~10~~ 5mL W26145 & filled to vol. w/ diluent W27869 x: 1/12/12

W27868 dm 1/5/12 — Cr^{+6} S DPC: Into a 100mL vol. dissolve 0.5g DPC W25133 & filled to vol w/ acetone baker cat: 9254-03 lot: J14E52 x: 1/6/12

W27869 dm 1/5/12 — Cr^{+6} S Dig Soln: Into a 2L vol. dissolve 40g NaOH W27608 & 60g sodium carbonate anhydrous W26912 & brought to vol w/ DI H_2O x: 1/5/13

W27870 dm 1/5/12 — Cr^{+6} S LOQ check: Into a 50mL vol pipet 2.5mL W26141 & bring to vol. w/ Dig Soln. W27869 tv=250µg/L

W27871 dm 1/5/12 — Cr^{+6} S LOD check: Into a 50mL vol. pipet 1.25mL W26141 & bring to vol w/ Dig Soln. W27869 tv=125µg/L

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
ESC			

W25124 KMB 11-22-10 — NH_3 Soil LCS- Prepped 11-17-10 Pipetted 0.25mL W24913 into 50mL KCl Ext. Soln-W25047. Exp. 11-24-10

W25125 JTh 11-23-10 — Cr^{+6} Dig soln: into a 2L vol. dissolved 60g sodium Carbonate anhydrous W20910 + 40g NaOH W24679 + BTV w/ DI H_2O. exp: 11-23-11

W25126 JTh 11-23-10 — Cr^{+6} Ical: into 5 50mL VF pipetted 0, 1, 2.5, 5, and 10mL W23661 + BTV w/ dig soln W25125 exp: 11-24-10

W25127 JTh 11-23-10 — Cr^{+6} ICV/LCS: into a 50mL VF pipetted 5mL W23663 + BTV w/ Dig soln W25125 exp: 11-24-10

W25128 JTh 11-23-10 — Cr^{+6} soil DPC: into a 20mL vol. dissolved 1g ~~in acetone~~ JTB 11-23-10 W25133 in acetone JT Baker lot# H30E21 cat # 9254-03 + BTV w/ acetone. exp: 11-24-10

*W25129 CES 11/23/10 — IC Mixed LCS/ICV- Into a 500mL vol pipetted 20mL W23432 + filled to vol w/ milliQ H_2O exp 12/23/10

*W25130 CES 11/23/10 — IC NO_2 LCS- Into a 500mL vol pipetted 3.5mL W23500 + filled to vol w/ milliQ H_2O. exp 12/23/10

W25131 ESC 11/23/10 ESC 11/23/10 — Ascorbic Acid Reagent: Into a 500mL vol. dissolved 30g Ascorbic acid W24793 + 0.5g SDS W23748 + brought to vol. w/ DI H_2O exp: 11/24/10

*W25132 ESC 11/23/10 — TKN/TPhos ICV: Into a 100mL vol. pipetted 0.952mL W25114 + W23501 + brought to vol. w/ Dilvet W25039 exp: 12/22/10 w= 10mg/L

W25133 JTh 11-23-10 — 1,5-Diphenylcarbazide Lot # 096686 Fisher. cat # D85-25 exp: 11-23-15

W25134 CES 11/23/10 — Sodium Bicarbonate. Fisher cat# S233-500 lot # 104706 exp 11/23/15

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

WFLASHPOINT Analytical Run
96995 on 8/22/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339579		8/15/2013 0900		ECC	RVAAP	FLASHPOINT		GW	**4**	
		083SB-0021-0001-IDW									
	342338		8/15/2013 0900				FLASHPOINT				
		083SB-0021-0001-IDW		DUP 339579							
	342339						WFLASHPOINT				
				LCSW							

3 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

CT Laboratories

LIMS #: 916995	Method: Flashpoint EPA Method 1010			
Analysis Date	Analyst / Data Interpretor	Independent Reviewer	Date of Review	Approved
08/20/13	LJS / LJS	MM	8-26-13	(Yes) No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Was LCS within acceptable limits?	77.9-81.9 F	X		X		
2. Were duplicates analyzed at the a ppropriate frequency	1 every 20 samples of the same matrix	X				
3. Were the duplicates within acceptable limits?	Differ by ≤ 5 F	X				
2. Are all samples on the job lists accounted for?	---	X				

WFLASHPOINT Analytical Run
96996 on 8/22/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339568		8/15/2013 0835		ECC	RVAAP	FLASHPOINT		S	**4**	
		083SB-0022-0001-IDW									
	342340		8/15/2013 0835				FLASHPOINT				
		083SB-0022-0001-IDW		DUP 339568							
	342341						WFLASHPOINT				
				LCSS							

3 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

CT Laboratories

LIMS #: 96996	Method: Flashpoint EPA Method 1010			
Analysis Date	Analyst / Data Interpretor	Independent Reviewer	Date of Review	Approved
08/22/13	UTS/UTS	MM	8-26-13	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Was LCS within acceptable limits?	77.9-81.9 F	X		X		
2. Were duplicates analyzed at the a ppropriate frequency	1 every 20 samples of the same matrix	X				
3. Were the duplicates within acceptable limits?	Differ by ≤ 5 F	X				
2. Are all samples on the job lists accounted for?	---	X				

WPH Analytical Run
96888 on 8/26/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339568	8/15/2013	0835		ECC	RVAAP	PH		S	**4**	
		083SB-0022-0001-IDW									
99335	339579	8/15/2013	0900		ECC	RVAAP	PH		GW	**4**	
		083SB-0021-0001-IDW									
	340057	8/15/2013	0835				PH				
		083SB-0022-0001-IDW		DUP 339568							
	340058	8/15/2013	0900				PH				
		083SB-0021-0001-IDW		DUP 339579							

4 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

CT Laboratories

LIMS #: 960888	Method: pH EPA 150.1			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
8/16/13	SER/CER	MM	8-26-13	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement	Acceptance Criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments: (indicate reference to an attachment if necessary)
1. Was the calibration slope recorded on the bench sheet?	—	X		X		
2. Were duplicates analyzed at the appropriate frequency?	1 every 20 samples of the same matrix	X				
3. Were the duplicates within acceptable limits?	Differ by ≤ 0.10 pH units	X				
4. Are all samples on the job lists accounted for?	—	X				

Mettler Toledo (Easy Seven) Instrument Run Logbook

Date	Start Time	End Time	Test (Analyte)	Sample Run # (s) / Prep Batch # (s)	Comments:
7/12/13 CES	945	1000	pH	95831	
7/13/13 CES	945	1130	pH	95979, 95980, 95981	
7/23/13 CES	1400	1500 7/31/13 SLR	pH	96606, 96607	
7/31/13	1340	~~1050~~ 1556	pH	96334 96333	
8/5/13	1500	1600	pH	96466	
8/13/13 SLR	0930	1200	pH	96686 96688 96689	
8/15/13 SLR	11:15	1145	pH	96776	
8/16/13 SLR	1420	1520	pH	96817 96818	
8/22/13 SLR	1650	1710	pH	97041	
8/23/13 SLR	1500	1515	pH	97100	
8/27/13 SLR	1340	1400	pH	97210 97213	
8/29/13 CES	1530		Cr^{+6}		
9/5/13 LSS	0900	1145	pH	97629, 97634, 97635	

Reviewed By:_____

W30908 IC Eluent
LJS 2/1/13
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W30909 TPhos Cupric Ascorbic - Into a 250mL vol. flask, dissolved
LJS 2/1/13 15g Ascorbic Acid W30693 + 0.25g Sodium Dodecyl sulfate (SDS) W30346 + fill to vol. w/ DI H_2O
EXP: 2/2/13

W30910 TKN/TPhos Cupric ICV - Into a 50mL vol. pipetted
LJS 2/1/13 0.47mL TKN ICV/LCS W30897 + 0.47mL TPhos ICV/LCS Stock W30897 filled to vol w/ cupric diluent to W30833
~~exp~~ W30829 exp: 2/14/13

W30911 mm 2/1/13 pH 10 Buffer Rica cat # 1601-1 exp 6/14 Lot # 30105Z

W30912 2/4/13 CES
TKN Hypochlorite
Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 30608 and fill to volume with DI H_2O. Exp (one day): 2/5/13

W30913 EJC 2/4/13
IC Nitrite and Fluoride Spike Standard (128 mg/L Nitrite and 32 mg/L Fluoride)
Into a 100 mL volumetric flask pipetted 12.8 mL 1000 mg/L Nitrite W 30512 and 3.2 mL 1000 mg/L Fluoride W 29818 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 3-4-13

W30914 ICal working (Phenolics) - Into a 100mL vol pipetted
LJS 2/5/13 0.1 W26909 + brought to vol w/ DI (2/11/13 Exp) TV = 1000ug/L

W30915 Phenolics ICV/LCS - Into a 200 vol. pipetted 0.05
LJS 2/5/13 W30886 + filled w/ DI H_2O Exp 2/11/13 TV = 250ug/L

W30916 Phenolics CCV - Into a 200 vol pipetted 0.05mL
LJS 2/5/13 W26909 + brought to vol w/ DI H_2O Exp: 2/11/13 TV = 250ug/L

W30917 Phenolics MDLW = Into a 100mL vol. pipetted 1.5mL of
LJS 2/5/13 ICal working W30914 + brought to vol w/ DI H_2O.

Continued on Page

Read and Understood By

Signed Date Signed Date

W28769 Zun 4/25/12 PT Sulfide: Into a 1L vol. flask, pipet 10mL 153094 & bring to vol. w/ DI H_2O.

W28770 EJC 4/25/12 TKN Dilvent: Into a large carboy volumetrically added 2775mL TKN Dig Soln. W28751 & 4160 mL DI H_2O + mixed. exp: 5/25/12

W28771 EJC 4/25/12 TKN ICAL (60mg/L) Into a 200mL vol. pipetted 12mL NH_3 ICAL/CCV 1000mg/L stock ~~W28783~~ EJC 4/25/12 W28406 + brought to vol. w/ TKN Dilvent W28770. exp: 5/2/12

W28772 EJC 4/25/12 TKN ICV (10mg/L) Into a 50mL vol. pipetted 0.476 mL NH_3 ICV/LCS 1000mg/L stock W28393 + brought to vol. w/ TKN Dilvent W28770. exp: 5/2/12

W28773 EJC 4/25/12 TKN Buffer: Into a 2L vol. dissolved 100g potassium sodium tartrate ~~tetra~~ EJC 4/25/12 dihydrate W28695, 67.2g di-Sodium hydrogen phosphate dihydrate W28421, + 40g NaOH W28199 + brought to vol. w/DI H_2O. After degassing added approx 5mL Brij W28055. exp: 5/25/12

W28774 EJC 4/25/12 NaCl: Into a 2L vol. dissolved 80g NaCl W25607 + brought to vol. w/DI H_2O. exp: 5/25/12

W28775 EJC 4/25/12 Hypochlorite: Into a 1L vol. volumetrically added 570mL Bleach W28428 + brought to vol. w/ DI H_2O. exp: 4/26/12

W28776 mml 4/26/12 Phenolics Buffer: into a 500ml vol. dissolved 1g $K_3Fe(CN)_6$ W22607 1.55g Boric acid W25121, 1.875g potassium chloride W28670 + volumetrically added 23.5ml 1N NaOH W27838 + brought to vol. w/DI H_2O exp 5/3/12

W28777 mml 4/26/12 4-Aminoantipyrine color reagent into a 500ml vol. dissolved 0.32g 4AAP + brought to vol. w/DI H_2O exp 4/27/12

W28778 mml 4/26/12 PH 4 Buffer Ricca lot # 4203078 cat # 1501-1 exp 2/14

4 DG 12 mml

Continued on Page

Read and Understood By

Signed Date Signed Date

W28232 ESC 2-21-12 — PO_4 ICV/LCS (1 mg/L): Into a 200mL vol. pipetted 0.2mL PO_4 ICV/LCS 1000mg/L stock W28063 & brought to vol. w/ DI H_2O. exp: 2-28-12

W28233 Lee 2/21/12 — pH 7.0 Buffer MG Scientific Cat- 1551-1 4L lot-4108981 x: 8/2013

W28234 CES 2/22/12 — T Phos carrier- Into a 500mL vol dissolved 15.85g potassium sulfate W28100 + vol wise added 24mL H_2SO_4 W27974 + filled to vol w/ dI H_2O. exp 8/22/12

W28235 CES 2/22/12 — Ascorbic Reagent- Into a 250mL vol dissolved 15g ascorbic W27710 + 0.25g SDS W25587 + filled to vol w/ dI H_2O. exp 2/23/12

CES 2/22/12 W28236 CES 2/22/12 — Phenolic Buffer- Into a 500mL vol dissolved 1g $K_3Fe(CN)_6$ CES 2/22/12 W22607, 1.55g Boric Acid W25121, 1.875g KCl W28151, volumetrically added 23.5mL 1N NaOH ~~W28237~~ W27644 CES 2/22/12 + filled to vol w/ dI H_2O. exp 2/29/12

~~W28237 CES 2/22/12~~ — 1N NaOH - Into a 500mL vol dissolved 20g NaOH W28199 + CES 2/22/12

W28237 CES 2/22/12 — 4AAP- Into a 250mL vol dissolved 0.16g 4AAP W21897 + filled to vol w/ dI H_2O. exp 2/23/12

W28238 CES 2/22/12 — Chloramine T- Into a 500mL vol dissolved 2g W27377 + filled to vol w/ dI H_2O. exp 2/23/12

W28239 ESC 2/22/12 — NO_2+NO_3 ICAL (50mg/L) Into a 200mL vol. pipetted 10mL NO_3 ICAL/CCV 1000mg/L stock W27863 & brought to vol. w/ H_2SO_4 Diluent W28240. exp: 2-29-12 ESC 2-22-12

W28240 ESC 2/22/12 — ~~NO_2+NO_3~~ H_2SO_4 Dilent: Into a large carboy volumetrically added 20mL LL H_2SO_4 W27942 & brought to a final vol. of 10L w/ DI H_2O. exp: 3-22-12

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

WCYANIDE, REACT Analytical Run
96821 on 8/27/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339568	8/15/2013	0835			ECC	RVAAP	CYANIDE, REACT		S	**4**	
		083SB-0022-0001-IDW										
99335	339579	8/15/2013	0900			ECC	RVAAP	CYANIDE, REACT		GW	**4**	
		083SB-0021-0001-IDW										
	339664							WCYANIDE, REACT				
				LCSW								
	339665							WCYANIDE, REACT				
				MBW								
	339666							WCYANIDE, REACT				
				LCSS								
	339667							WCYANIDE, REACT				
				MBS								
	339668	8/15/2013	0835					CYANIDE, REACT				
		083SB-0022-0001-IDW		DUP	339568							
	339669	8/15/2013	0835					CYANIDE, REACT				
		083SB-0022-0001-IDW		MSS	339568							
	339670	8/15/2013	0900					CYANIDE, REACT				
		083SB-0021-0001-IDW		DUP	339579							
	339671	8/15/2013	0900					CYANIDE, REACT				
		083SB-0021-0001-IDW		MSW	339579							

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

LIMS #: 96821	Method: Reactive Cyanide Screening			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
8/17/13	CES	MM	8-26-13	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Does a titration bench sheet accompany the run?	---	X		X		
2. Were the samples analyzed witbin hold time?	7 days	X				
3. Was a method blank titrated along with the samples?	---	X				
4. Was the method blank result acceptable?	< LOD	X				
5. Were duplicates analyzed at the required frequency?	1 per 20 samples of the same matrix	X				
6. Was the RPD of the duplicates acceptable?	Within in house QC limits	X				
7. Was an LCS standard analyzed at the required frequency?	1 per 20 samples of the same matrix	X				
8. Were the recoveries acceptable for the LCS?	Positive	X				
9. Was a MS analyzed within acceptable limits?	Positive	X				
10. Are all samples on the job lists accounted for?	---	Y				

Notebook No. _____ 99

PROJECT _____ Continued From Page _____

W32185 ES 7/31/13 1N Sodium Hydroxide
Into a 500mL volumetric flask dissolved 20g NaOH W 32029 and brought to volume with DI H_20. EXP(1 year): 7/31/14

W32186 ES 7/31/13 Bleach - Valley View 5.25% sodium hypochlorite

W32187 JS 7/31/13 TKN Hypochlorite
Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 32186 and fill to volume with DI H_2O. Exp. (one day): 8/2/13

W32188 8-1-13 mvl TPhos 8500 Ascorbic
Into a 1 L volumetric flask dissolve 70g ascorbic acid W 32065 and 1.0 g SDS W 30340 and fill to volume with DI H_2O. Exp. (two days): 8-2-13

W32189 8-1-13 mvl TPhos 8500 Digestion Solution #1
Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W 32066 and fill to volume with DI H_2O. Exp. (one month): 9-1-13

W32190 mvl 8-1-13 TPhos 8500 0.72N Sulfuric Acid Carrier
Into a 2L volumetric flask volumetrically add 76 mL trace metal grade H_2SO_4 W 32066 and dissolve 10g NaCl W 29369 and 2g SDS W 30340 and fill to volume with DI H_2O. Exp. (one month): 9-1-13

W32191 ES 8/1/13 Dishwasher Acid - Into a 2L vol dissolved 800g sodium citrate EMD cat # SX0445-5 lot # 472 77915 + filled to volume/ DI H_2O. exp 8/1/14

W32192 JS 8/1/13 Sodium Salicylate-Nitroprusside Color Reagent
Into a 1L volumetric flask dissolved 150g sodium salicylate W 32073 and 1g sodium nitroprusside W 31985 and brought to volume with DI H_2O.
EXP(1 month): 9/1/13

W32193 JS 8/1/13 TKN/ TPHOS Cupric Diluent
Into a 2L volumetric flask volumetrically add 800mL cupric digestion solution W 32131 and fill to volume with DI H_2O. Exp (one month): 9/1/13

W32194 JS 8/1/13 TPhos Cupric Ascorbic
Into a 250 mL volumetric flask dissolve 15g Ascorbic Acid W 32065 and 0.25g Sodium Dodecyl sulfate (SDS) W 30340 and fill to volume with DI H_2O.
Exp.(one day): 8/2/13

Read and Understood By

8/2/13 JS
Signed | Date | Signed | Date

W31347 0.25 M Sodium Hydroxide
US Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 30844 and
4/12/13 brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 5/12/13

W31348 Cyanide Std. Ricca Chemical Co, Cat # 2813-4, Lot # 4302373 Exp Aug2013
US
4/12/13

W31349 CN ICAL/CCV Working Standard (10mg/L)
4/12/13 Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000
US mg/L W 31348 and brought to volume with 0.25 M NaOH W 31347.
EXP (1 week): 4/19/13

CN ICAL
All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W 31347. EXP (1 Week): 4/19/13

W31380
4/12/13
US

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W31349	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

W31351 CN LCS/ICV Working Standard& Spike (10mg/L)
4/12/13 Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000
US mg/L W 29155 and brought to volume with 0.25 M NaOH W 31347.
EXP (1 week): 4/19/13

W31352 CN LCS/ICV (50 µg/L)
4/12/13 Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000
US µg/L W 31351 and brought to volume with 0.25 M NaOH W 31347.
EXP (1 week): 4/19/13

W31353 EJC IC Eluent
4/12/13 Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W30973 2/15/13 WS

Phenolics CCV (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICal/CCV Stock (1000mg/L) W 24909 and fill to volume with DI H_2O. Exp. (one week): 2/22/13

W30974 2/15/13

IC Eluent
Into a large carboy, pipetted 20mL eluent concentrate W 29953 and filled to a final volume of 10L with Milli Q DI H_2O.
Exp: 9/22/13

W30975 2/15/13 EAB

COD ICal Stock (1000mg/L)
Into a 200mL volumetric flask dissolve 0.17g Potassium Hydrogen Phthalate W 29079 and fill to volume with DI H_2O. Exp. (three months): May 15, 2013
05/15/13

W30976 2/15/13 EAB

COD CCV (400 mg/L)
Into a 250mL volumetric flask volumetrically added 100ml ICal Stock (1000mg/L) W 30975 and fill to volume with DI H_2O. Exp. (three months): 05/15/13

W30977 2/15/13 WS

Reactive, CN 0.5N H_2SO_4 - Into 500mL vol flask, pipette 7mL H_2SO_4 W30405 + bring to vol w/ DI H_2O EXP: 2/15/14

W30978 2/15/13 CES

EAB COD BS - Into a 50mL vol pipetted 25mL W30975 & filled to vol w/ DI H_2O 2/15/13 Exp 5/15/13 TV=500mg/L

W30979 2/18/13 EJC

4-Aminoantipyrine Color Reagent
Into a 500mL volumetric flask dissolve 0.32g 4-AAP W 21897 and fill to volume with DI H_2O. Exp. (one day): 2/19/13

W30980 2/18/13 EJC

Phenol Buffer
Into a 500mL volumetric flask dissolve 1g $K_3Fe(CN)_6$ W 22607, 1.55g boric acid W 25121, 1.875g KCl W 30437, volumetrically add 23.5mL 1N NaOH W 30779 and fill to volume with Dl H_2O. Exp. (one week): 2/25/13

W30981 2/18/13 CES

NO_2 + NO_3 Buffer
Into a 1 L volumetric flask dissolve 85g ammonium chloride W 29006 and 1g EDTA W 28198 and fill to volume with Dl H_2O and degas. Adjust pH to 8.5 with 15 N NaOH W 30231. Exp (one month): 3/18/13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W30091 EJC 10/11/12 — TPhos Cupric Ascorbic: Into a 250mL vol dissolved 15g ascorbic W29826 +0.25g SDS W25574 & brought to vol w/DI H_2O. exp: 10/12/12 exp 10/11/12

W30092 CES 10/11/12 — 18N H_2SO_4 - Into a 1L vol volumetrically added 500mL H_2SO_4 W30019 & filled to vol w/ dI H_2O. exp 10/11/13

W30093 EJC 10/12/12 — 6M H_2SO_4: Into a 500mL vol volumetrically added 196mL H_2SO_4 W30019 & brought to vol. w/DI H_2O exp. 10/12/13

W30094 EJC 10/12/12 — RCN LCSW: Into a specimen cup pipetted 0.1mL CN 1000mg/L ICV/LCS stock W29327 & 10mL DI H_2O. exp: 10/13/12 tv=10mg/L

W30095 EJC 10/12/12 — RCN LCSS: Into a specimen cup pipetted 0.1mL CN 1000mg/L ICV/LCS stock W29327 & 10mL DI H_2O & added 5g sand W23481. exp: 10/13/12 tv=20mg/kg

W30096 CES 10/12/12 — Ascorbic - Into a 1L vol dissolved 1g ascorbic W29322 & filled to vol w/ dI H_2O. exp 10/13/12

W30097 CES 10/12/12 — TPhos NaOH - Into a 500mL vol dissolved 52.5g NaOH W29842 & filled to vol w/ dI H_2O. degassed & added ~4mL FFD6 W29018. exp 10/19/12

W30098 CES 10/12/12 — TPhos Sulfuric - Into a 500mL vol volumetrically added 67.7mL TMG H_2SO_4 W29718 & filled to vol w/ dI H_2O. degassed and added ~0.25mL FFD6 W29018. exp 10/19/12

W30099 CES 10/12/12 — Oxidation Reagent - Into a 500mL vol dissolved 2.5g potassium peroxidisulfate W26492 & filled to vol w/ dI H_2O degassed & adj pH to 1.1-1.2 w/ TMG W29718. exp 10/19/12

W30100 CES 10/12/12 — TPhos Iodide (100mg/L) - Into a 200mL vol pipetted 20mL W29913 Phos CCV stock & filled to vol w H_2SO_4 dilute W30087. exp 10/19/12

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W29325 CES 6/27/12 CN LCS/ICV Working Standard & Spike (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 28755 and brought to volume with 0.25 M NaOH W 29247.
EXP (1 week): 7/4/12

W29326 6/27/12 CES CN LCS/ICV (50 µg/L)
Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 29325 and brought to volume with 0.25 M NaOH W 29247.
EXP (1 week): 7/4/12

W29327 CES 6/27/12 Gondine Std - Ricca 1000 mg/L cat # 2543-4 lot # 4208518 exp 10/2012

W29328 CES 6/27/12 CN LODW - Into a 50mL vol pipetted 0.06mL W29325 + filled to vol w/ NaOH (0.25M) W29247. exp 7/4/12

W29329 CES 6/27/12 CN LOQW - Into a 50mL vol pipetted 0.12mL W29325 ICV Working W29325 + filled to vol w/ 0.25N NaOH W29247. exp 7/4/12

W29330 ESC 6/27/12 1 & N Sulfuric Acid: Into a large beaker added 500mL DI H_2O + slowly added 500mL sulfuric acid W28872 + mixed exp: ~~7/4~~ 6/27/13 ESC 6/27/12

W29331 CES 6/28/12 Phenolic Buffer - Into a 500mL vol dissolved 1g $K_3Fe(CN)_6$ W22607, 1.55g Boric W25121, 1.875g potassium chloride W28670, + volumetrically added 23.5mL 1M NaOH W28657 - filled to vol w/ dI H_2O. exp 7/5/12

W29332 CES 6/28/12 4AAP - Into a 250mL vol dissolved 0.1g 4AAP W21897 + filled to vol w/ dI H_2O. exp 6/29/12

W29333 ESC 6/28/12 NH_3 LCSS: Into a 50mL vol. pipetted 0.25mL NH_3 ICV/LCS 1000mg/L stock W29098 + brought to vol. w/ ~~DI~~ KCl Soln W29254. Conc = 5mg/L exp: 7/5/12 ESC 6/28/12

Continued on Page

Read and Understood By

Signed Date Signed Date

W29325 CES 6/27/12 CN LCS/ICV Working Standard & Spike (10mg/L)
Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 28755 and brought to volume with 0.25 M NaOH W 29247.
EXP (1 week): 7/4/12

W29326 6/27/12 CES CN LCS/ICV (50 µg/L)
Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 29325 and brought to volume with 0.25 M NaOH W 29247.
EXP (1 week): 7/4/12

W29327 CES 6/27/12 Glycine Std - Ricca 1000 mg/L cat # 2543-4 lot # 4208518 exp 10/2012

W29328 CES 6/27/12 CN LODW - Into a 50mL vol pipetted 0.06mL W29325 + filled to vol w/ NaOH (0.25M) W29247. exp 7/4/12

W29329 CES 6/27/12 CN LOQW - Into a 50mL vol pipetted 0.12mL W29325 ICV Working W29325 + filled to vol w/ 0.25N NaOH W29247. exp 7/4/12

W29330 ESC 6/27/12 1 & N Sulfuric Acid: Into a large beaker added 500mL DI H_2O + slowly added 500mL sulfuric acid W28872 + mixed exp: ~~7/4~~ 6/27/13 ESC 6/27/12

W29331 CES 6/28/12 Phenolic Buffer - Into a 500mL vol dissolved 1g $K_3Fe(CN)_6$ W22607, 1.55g Boric W25121, 1.875g potassium chloride W28670, + volumetrically added 23.5mL 1M NaOH W28657 - filled to vol w/ dI H_2O. exp 7/5/12

W29332 CES 6/28/12 4AAP - Into a 250mL vol dissolved 0.16g 4AAP W21897 + filled to vol w/ dI H_2O. exp 6/29/12

W29333 ESC 6/28/12 NH_3 LCSS: Into a 50mL vol. pipetted 0.25mL NH_3 ICV/LCS 1000mg/L stock W29098 + brought to vol. w/ ~~DI~~ KCl Soln W29254. fv = 5mg/L exp: 7/5/12 ESC 6/28/12

Continued on Page

Read and Understood By

Signed Date Signed Date

W28848 EJC 5/14/12 EJC 5/14/12 Ascorbic Acid Reagent: Into a 1L vol. dissolved 11g ascorbic acid W28581 & brought to vol. w/DI H_2O. exp: 5/14/12 5/5/12 EJC 5/14/12

W28849 Lm 5/3/12 Sulfide LCS: Into a 200mL vol. flask, pipet 1mL W28592 & fill to vol w/ DI H_2O X:5/4/12

W28850 Lm 5/3/12 Phenylarsine oxide Soln' 0.025N Cat# 61124-0010 lot # B0706193

W28851 Lm 5/5/12 Reactive CN 0.5N H_2SO_4- Into a 500mL vol. flask, pipet 7mL H_2SO_4 W28348 & bring to vol w/ DI H_2O X:5/5/13

W28852 Bms 05/07/12 TOCS Curve: Weighed up ~ 0, 5, 10, 20, 30, 40, and 50 mg of Dextrose (W23193).

W28853 Lm 5/7/12 Phenolic LCS: Into a 200mL vol. flask, pipet 0.1mL W26046 & fill to vol. w/ DI H_2O X:5/14/12

W28854 Lm 5/7/12 Lm 5/7/12 Phenolic ICAL working: Into a 200mL vol. flask, pipet 2mL W26909 & fill to vol w/ DI H_2O X:5/14/12 fv = 10 mg/L

W28855 Lm 5/7/12 Phenolic ICAL: Into a 100mL vol. flask pipet 10mL W28854 & fill to vol. w/ DI H_2O X:5/14/12 fv = 1000µg/L

W28856 EJC 5/7/12 Antimony Potassium Tartrate stock: Into a 500mL vol. dissolved 1.6g antimony potassium tartrate ~~W28695~~ W23460 & brought to vol. w/DI H_2O exp: 7/7/12 EJC 5/7/12

W28857 EJC 5/7/12 TP NaOH Reagent: Into a 1L vol. dissolved 105g NaOH W28199 & brought to vol w/DI H_2O. After degassing added approximately 2mL FF06 W28110 exp: 6/7/12

W28858 EJC 5/7/12 H_2SO_4 Diluent: Into a large carboy pipetted 20mL TMG H_2SO_4 W28718 & brought to a final vol. of 10L w/ DI H_2O. exp: 6/7/12

Continued on Page

Read and Understood By

Signed Date Signed Date

W23478 CES 4/6/10 — Phenolic CCV – Into a 200mL vol pipetted 0.1mL ~~W21956~~ W22840 CES 4/6/10 + filled to vol w/ dI H_2O. exp 4/13/10

W23479 CES 4/6/10 — Phenolic LCS – Into a 200mL vol. pipetted 0.1mL W21956 + filled to vol w/ dI H_2O. exp 4/13/10

*W23480 MWD 4/6/10 — TKN/TPhos ICV – Into a 100 mL vol. pipetted 0.952mL NH3 W23462 & TPhos W23269 & brought to vol. w/ Diluent W23465. exp. 5-5-10

W23481 CES 4/6/10 — Purified Sand – J.T Baker cat # 3382-05 lot # H.366602

W23482 mm/ 4/6/10 — COD Stock Std. 1000mg/L into a 500mL Vol. dissolved 0.425g KHP W23082 + brought to Vol. w/ DI H_2O exp 7/6/10

W23483 EJC 4/6/10 — 0.25N NaOH: Into a 2L vol. dissolved ~~20~~ 6 EJC 4/6/10 g NaOH W22703 + brought to ~~a final~~ vol EJC 4/6/10 w/ DI H_2O, then to a final vol. of 6L in a carboy w/DI H_2O exp: 5/6/10

W23484 EJC ~~4/6/10~~ 4/7/10 EJC 4/7/10 — CN ICV/LCS working std: Into a 100mL vol. pipetted 1mL 1000mg/L CN W23302 + brought to vol. w/ 0.25 N NaOH W23483 exp: 4/14/10

W23485 EJC 4/7/10 — CN LCS/ICV: Into a ~~100~~ 200 EJC 4/7/10 mL vol. pipetted ~~0.5~~ 1 EJC 4/7/10 mL W23484 + brought to vol. w/ 0.25N NaOH W23483 exp: 4/14/10

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

WSULFIDE, REACT Analytical Run
96823 on 8/27/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339568	8/15/2013	0835			ECC	RVAAP	SULFIDE, REACT		S	4	
		083SB-0022-0001-IDW										
99335	339579	8/15/2013	0900			ECC	RVAAP	SULFIDE, REACT		GW	4	
		083SB-0021-0001-IDW										
	339672							WSULFIDE, REACT				
				LCSS								
	339673							WSULFIDE, REACT				
				MBS								
	339674							WSULFIDE, REACT				
				LCSW								
	339675							WSULFIDE, REACT				
				MBW								
	339676	8/15/2013	0835					SULFIDE, REACT				
		083SB-0022-0001-IDW		DUP	339568							
	339677	8/15/2013	0835					SULFIDE, REACT				
		083SB-0022-0001-IDW		MSS	339568							
	339678	8/15/2013	0900					SULFIDE, REACT				
		083SB-0021-0001-IDW		DUP	339579							
	339679	8/15/2013	0900					SULFIDE, REACT				
		083SB-0021-0001-IDW		MSW	339579							

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

LIMS #: 96823	Method: Reactive Sulfide Screening			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
6/7/13	[signature]	[signature]	8-26-13	Yes .. No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Does a titration bench sheet accompany the run?	---	X		X		
2. Were the samples analyzed within hold time?	7 days	X				
3. Was a method blank titrated along with the samples?	---	X				
4. Was the method blank result acceptable?	< LOD	X				
5. Were duplicates analyzed at the required frequency?	1 per 20 samples of the same matrix	X				
6. Was the RPD of the duplicates acceptable?	Within in house QC limits	X				
7. Was an LCS standard analyzed at the required frequency?	1 per 20 samples of the same matrix	X				
8. Were the recoveries acceptable for the LCS?	Positive	X				
9. Was a MS analyzed within acceptable limits?	Positive	X				
10. Are all samples on the job lists accounted for?	---	Y				

Notebook No. _____ 9

PROJECT _____ Continued From Page _____

W32268 GES
8/13/13

$NO_2 + NO_3$ CCV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_3 lCal/ CCV stock (1000 mg/L) W 30659 and fill to volume with H_2SO_4 diluent W 32231.
Exp (one month): 9/13/13

W32269 GES
8/13/13

$NO_2 + NO_3$ ICV (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_2 ICV/LCS stock (1000 mg/L) W 31998 and fill to volume with H_2SO_4 diluent W 32231.
Exp (one month): ~~9/13/13~~ 9/13/13

W32270 GES
8/13/13

$NO_2 + NO_3$ LCS (5 mg/L)
Into a 100 mL volumetric flask pipette 0.5 mL NO_3 lCV/LCS stock (1000 mg/L) W 31174 and fill to volume with H_2SO_4 diluent W 32231.
Exp (one month): 9/13/13

W32271 GES
8/13/13

Cupric Digestion Solution
Into a 2L volumetric flask dissolve 268g potassium sulfate W 29691e and 14.6g copper sulfate W 31625 and slowly volumetrically add 268 mL H_2SO_4 W _____ and fill to volume with DI H_2O. Exp. (one month): 9/13/13

W32272 GES
8/13/13

Silver Sulfate Sulfuric Acid - Fluka - cat # 34629-1L
lot # SZBD0600V

W32273 SEK
8/14/13

Sulfide 1000 mg/L LCS stock: into a 200 mL vol. dissolved 1.5 g Na Sulfide W22510 and brought to vol with 0.25 N NaOH W32239
exp 9/14/13

W32274 SEK
8/14/13

Sulfide LCS: (50 mg/L): Add 1 mL of sodium sulfide stock W32273 into a 200 mL vol. flask and bring to volume w/ DI
exp 8/15/13

W32275
8/14/13
MM

LL TPhos Digestion Check (200ug/L)
Into a 50mL volumetric flask pipette 0.1mL TPhos UV digestion check stock (100 mg/L) W 32227 and fill to volume with LL H_2SO_4 diluent W 32203
Exp (one month): 9-8-13

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Notebook No. _____ 5

PROJECT _____ Continued From Page _____

W32237 Manifold Cleaning Soln. into a 500 mL Vol. dissolved 32.5g 8-9-13 8-9-13 NaOH W32029 of 3g & EDTA W31186 of brought to Vol. w/DI H_2O exp 9-9-13 14

W32238CS 8/9/13 TPhos Cupric Ascorbic

Into a 250 mL volumetric flask dissolve 15g Ascorbic Acid W 32005 and 0.25g Sodium Dodecyl sulfate (SDS) W 30340 and fill to volume with DI H_2O.
Exp.(one day): 8/10/13

W32239CS 8/10/13 0.25 M Sodium Hydroxide

Into a 2 L volumetric flask dissolved 20 g sodium hydroxide W 32029 and brought to volume with DI H_2O. EXP (1 Month): 9/12/13

W32240CCS 8/12/13 CN ICAL/CCV Working Standard (10mg/L)

Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 32251 and brought to volume with 0.25 M NaOH W 32239.
EXP (1 week): 8/19/13

W32241CCS 8/12/13 CN ICAL

All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W 32239. EXP (1 Week): 8/19/13

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W 32240	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

W32242CS 8/12/13 CN LCS/ICV Working Standard & Spike (10mg/L)

Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 31348 and brought to volume with 0.25 M NaOH W 32239.
EXP (1 week): 8/19/13

W32243CS 8/12/13 CN LCS/ICV (50 µg/L)

Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 32242 and brought to volume with 0.25 M NaOH W 32239.
EXP (1 week): 8/19/13

Read and Understood By

Signed | Date | Signed | Date

W32026 TKN Hypochlorite
WS 7/8/13
Into a 500 mL volumetric flask volumetrically add 30 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp. (one day): 7/9/13

W32027 0.8M Sodium Hydroxide
WS 7/8/13
Into a 1L volumetric flask dissolved 32g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 8/8/13

W32028 TKN Buffer Reagent
WS 7/8/13
Into a 2L volumetric flask dissolved 40g EDTA W 31186, 70g sodium phosphate dibasic heptahydrate W 31630, and 100g NaOH W 30844 and brought to volume with DI H_2O. EXP(1 month): 8/8/13

W32029 Sodium Hydroxide, Fisher Chemical; Lot 125708,
WS 7/8/13 CAS 1310-73-2

W32030
GS 7/8/13
TPhos 8500 Ascorbic
Into a 1 L volumetric flask dissolve 70g ascorbic acid W 31809 and 1.0 g SDS W 30340 and fill to volume with DI H_2O. Exp. (two days): 7/10/13

W32031 50% HCL: into a larger beaker mix
SER 7/8/13 450 ml DI H_2O + 450 ml HCl
exp 7/8/14

W32032 ES
7/8/13
TPhos 8500 ICal (20 mg/L)
Into a 100 mL volumetric flask pipette 2mL PO_4 ICal/CCV stock (1000 mg/L) W 30355 and fill to volume with H_2SO_4 diluent W 31855. Exp. (one month): 8/8/13

W32033
WS 7/8/13
Phenol Buffer
Into a 500mL volumetric flask dissolve 1g $K_3Fe(CN)_6$ W 26607, 1.55g boric acid W 25121, 1.875g KCl W 31111, volumetrically add 23.5mL 1N NaOH W32029 and fill to volume with DI H_2O. Exp. (one week): 7/15/13

W32034
WS 7/8/13
4-Aminoantipyrine Color Reagent
Into a 500mL volumetric flask dissolve 0.32g 4-AAP W 31897 and fill to volume with DI H_2O. Exp. (one day): 7/9/13

GS 7/8/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W31994 ESC 7/1/13 TPhos 8500 Digestion Solution #1
Into a 2L volumetric flask volumetrically add 213mL trace metal grade H2SO4 W_____ 7/2/13 and fill to volume with DI H_2O. Exp. (one month): 8/1/13

W31995 ESC 7/1/13 Phenolics CCV (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICal/CCV Stock (1000mg/L) W 31872 and fill to volume with DI H_2O. Exp. (one week): 7/8/13

W31996 ESC 7/1/13 Phenolics LCS (250 µg/L)
Into a 200 mL volumetric flask pipette 0.05mL Phenol ICV/LCS Stock (1000mg/L) W 30886 and fill to volume with DI H_2O. Exp. (one week): 7/8/13

W31997 ESC 7/1/13 Phenolics ICAL Working (1000 µg/L)
Into a 100 mL volumetric flask pipette 0.1mL Phenol ICal/CCV Stock (1000mg/L) W 31872 and fill to volume with DI H_2O. Exp. (one week): 7/8/13

W31998 mcl 7/1/13 NO_2 Stock Std. 1000mg/L Spex Certiprep lot # 13-22 NO_2 N-24 exp: 6-30-14 cut # AS-NO_2 N9-24

W31999 mcl 7-1-13 IC LCS/ICV Nitrite Standard (7 mg/L) *Diluted 1:1 daily with IC LCS/ICV Mixed Standard to equal a value of 3.5 mg/L Nitrite
Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Nitrite W 31998 and brought to volume with Milli-Q DI H_2O. EXP (1 month): 8-1-13

W32000 CS 60 7/1/13 TPhos 8500 Digestion Solution #2
Into a 2L volumetric flask dissolve 52g potassium persulfate W 31561 and fill to volume with DI H_2O. Exp. (one month): 8/1/13

W32001 CS 7/1/13 TPhos 8500 0.72N Sulfuric Acid Carrier
Into a 2L volumetric flask volumetrically add 76 mL trace metal grade H_2SO_4 W_____ 31293 and dissolve 10g NaCl W 30981 and 2g SDS W 30340 and fill to volume with DI H_2O. Exp. (one month): 8/1/13

W32002 ESC 7/1/13 Sulfide 1000mg/L LCS stock: Into a 200mL vol. dissolved 1.5g Na Sulfide W22510 & brought to vol w/ 0.25N NaOH W31914 exp: 8/1/13

OES 7/2/13

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT _____ Notebook No. _____ 49

Continued From Page _____

W31676 LCSW Reactive Sulfide, added 0.02mL sulfide LCS
8/31/13 Stock W31635 to 10mL DI in a pee cup
WS

W31677 LCSS Reactive Sulfide, added 0.05mL sulfide
8/31/13 WS LCS Stock W31635 to 10mL DI, 0.5000g sand in glass jar

W31678 50% HCl: Into a large beaker, mixed 300mL DI H_2O + 300mL HCl (W3
WS 8/31/13 ~~W30944~~ WS 8/31/13 exp. 5/31/14

W31679 GES VFA Effluent - Into a 2L Vol flask ~~pretted~~ added 50mL Effluent Stock
6/3/13 W31129 - filled to vol w/ milliQ H_2O. exp 7/3/13

W31780 GES VFA Regenerante - Into a 2 Vol flask 20mL W31318
6/3/13 - filled to a final vol of 4L w/ milliQ H_2O. exp 6/3/13

ESC 6/3/13

W31781 ESC
6/3/13

NH_3 IL Sodium Salicylate-Nitroprusside Color Reagent
Into a ~~1~~ 2L volumetric flask dissolved ~~144~~ 288g sodium salicylate W 31671 and ~~3.5~~ 7g sodium nitroprusside W 30504 and brought to volume with DI H_2O.
EXP(1 month): 7/3/13

W31782 ESC
6/3/13

NH_3 IL Borate Buffer
Into a 1 L volumetric flask dissolve 5.0 g sodium tetraborate decahydrate W 25121 and 22g NaOH W 30844 and fill to volume with DI H_2O.
Exp (one month): 7/3/13

W31783 ESC
6/3/13

NH_3 IL Hypochlorite
Into a 1L volumetric flask volumetrically add 60 mL 5.25% sodium hypochlorite bleach W 31307 and fill to volume with DI H_2O. Exp (one day): 6/4/13

W31784 ESC
6/3/13

NH_3 IL ICV/LCS (4mg/L)
Into a 100 mL volumetric flask pipette 0.4ml NH_3 1000mg/L ICV/LCS stock W 30902 and fill to volume with H_2SO_4 diluent W 31520.
Exp. (two weeks): ~~7~~ 6/17/13
ESC 6/3/13

W31785 ESC
6/3/13

NH_3 IL CCV (4 mg/L)
Into a 100 mL volumetric flask pipette 0.4ml NH_3 1000mg/L CCV/ICal stock W 31418 and fill to volume with H_2SO_4 diluent W 31520.
Exp. (two weeks): 6/17/13

Read and Understood By

Signed | Date | Signed | Date

W31033 EJC 2/25/13 RCN LCSS: Into a specimen cup added 5g sand W23481, 0.1mL 1000mg/L CN stock W30258, & 10mL DI H2O. exp: 2/26/13 IV = 20mg/kg

W31034 EJC 2/25/13 Sulfide LCSS (100mg/kg) Into a glass jar added 0.5g sand W23481 0.05mL 1000mg/L sulfide stock W30876, & 10mL DI H2O. exp: 2/26/13

W31035 EJC 2/25/13 50% HCl; Into a large beaker mixed 300mL DI H2O & 300mL ~~H2SO4~~ HCl W29947. exp: 2/25/14 EJC 2/25/13

W31036 EJC 2/26/13 TOCW CCV: Into a 100mL vol. 5mL W30179 CCV/ICAL 1000mg/L stock ~~W~~ & brought to vol. w/Milli-Q DI H2O, exp: 3/26/13 EJC 2/26/13

W31037 EJC 2/26/13 TOCW LCS: Into a 100mL vol. pipetted 5mL W30180 ICV/LCS 1000mg/L stock & brought to vol. w/Milli-Q DI H2O, exp: 3/26/13

W31038 2/24/13 LJS NH_3 Buffer
Into a 500mL volumetric flask dissolved 25g EDTA W 28198 and volumetrically added 112.5mL 1N NaOH W 30179 and brought to volume with DI H_2O. EXP(1 month): 3/26/13

W31039 2/24/13 LJS Sodium Nitroprusside Reagent
Into a 500mL volumetric flask dissolved 1.75g sodium nitroprusside W 30504 and brought to volume with DI H_2O. EXP(1 month): 3/26/13

W31040 2/26/13 LJS Sodium Phenolate Color Reagent
Into a 500mL volumetric flask dissolved 16g NaOH W 30844 and volumetrically added 44mL phenol W 30049 and brought to volume with DI H_2O. EXP(1 week): 3/5/13

W31041 2/26/13 LJS NH_3 LCSS (1.25 mg/L)
Into a 50mL volumetric flask pipetted 0.0625mL NH_3/TKN LCS/ICV Stock 1000mg/L W 30902 and brought to volume with 2N KCl W 30925.
EXP. (two weeks) 3/12/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W30432 CES 11/19/12 — NH_3 Sodium Hypochloride
Into a 500mL volumetric flask volumetrically added 250mL Bleach W 29883 and brought to volume with DI H_2O. EXP(24 hours): 11/20/12

W30433 CES 11/19/12 — NH_3 Undistilled ICAL (2.5mg/L)
Into a 100mL volumetric flask pipetted 0.25mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 29537 and brought to volume with H_2SO_4 Diluent W 30273. EXP(1 week): 11/26/12

W30434 CES 11/19/12 — NH_3 Undistilled CCV (1.25mg/L)
Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 29537 and brought to volume with H_2SO_4 Diluent W 30273. EXP(1 week): 11/26/12

W30435 CES 11/19/12 — NH_3 Undistilled ICV/LCS (1.25mg/L)
Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 30060 and brought to volume with H_2SO_4 Diluent W 30273. EXP(1 week): 11/26/12

W30436 CES 11/19/12 — 2M KCl- In 4a 1L vol dissolved 149g KCl W30205 & filled to vol w/ DI H_2O exp 12/19/12

W30437 CES 11/19/12 — Potassium Chloride- Fisher P217-500 lot # 120904

W30438 CES 11/17/12 — Cyanide TPhos Ascorbic - In 40mL vol dissolved 15g Ascorbic W29826 + 0.85g SDS W25574 + filled to 9 Estimated Volume DI H_2O. exp 11/20/12

W30439 LCS 11/19/12 — Fisher; 09-328-3; CC10807; 9998 Microcholan
EX: 7/04/2013

ESC 11-19-12

~~W3043~~ W30440 ESC 11-19-12 — Reactive Sulfide LCSS: Into a glass jar added 0.5g sand W23481 + pipetted 10mL DI H_2O & ESC 11-19-12 0.05mL Sulfide 1000mg/L LCS stock W30275 + brought + exp: 11-20-12

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W30110 ESC 10/15/12 — R Sulfide LCSS: Into a glass jar pipetted 10mL DI H_2O & 0.05mL Sulfide 1000mg/L ICV/LCS 1000mg/L stock W30002 & added 0.5g sand ~~ESC~~ ESC. W23481. tv=100mg/kg exp: 10/16/12

W30111 CES 10/15/12 — Alk LCS/ICV stock - Into a 250mL vol dissolved 0.6625g Na_2CO_3 W28223 & filled to vol w/ CO_2 free dI H_2O. exp 11/15/12

W30112 CES 10/15/12 — Alk LCS (375mg/L) - Into a 200mL vol pipetted 30mL W30111 & filled to vol w/ CO_2 free dI H_2O exp 11/15/12

W30113 CES 10/15/12 — Alk ICV (75mg/L) - Into a 100mL vol pipetted 3mL W30111 & filled to vol w/ CO_2 free dI H_2O. exp 11/15/12

W30114 CES 10/15/12 — Alk Ical/CCV stock - Into a 250mL vol ~~pipetted~~ dissolved 0.1625g Na_2CO_3 4/28305 & filled to vol w/ CO_2 free dI H_2O exp 11/15/12 10/15/12

~~W300~~ W30115 CES 10/15/12 — Alk Ical exp 11/15/12

mls W30114	final vol w/ CO_2 free dI H_2O
A 30	100
B 25	
C 20	
D 15	
E 10	
F 5	
G 3	
H 1	
I 0	

W30116 CES 10/15/12 — KHP Buffer - Into a beaker dissolved 2.5g KHP W29079 in 450mL CO_2 free dI H_2O & 42.5mL 0.1M HCl W24078 & adj pH to 3.1 ± 0.05 exp 10/22/12

W30117 ESC 10/15/12 — 50% HCl: Into a large beaker volumetrically added 300mL DI H_2O & 300mL HCl W29947. exp: 10/15/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W30110 ESC 10/15/12 — R Sulfide LCSS: Into a glass jar pipetted 10mL DI H_2O & 0.05mL Sulfide 1000mg/L ICV/LCS 1000mg/L stock W30002 & added 0.5g sand ~~ESC~~ ESC W23481. tv=100mg/kg exp: 10/16/12

W30111 CES 10/15/12 — Alk LCS/ICV stock - Into a 250mL vol dissolved 0.6625g Na_2CO_3 W28223 & filled to vol w/ CO_2 free dI H_2O. exp 11/15/12

W30112 CES 10/15/12 — Alk LCS (375mg/L) - Into a 200mL vol pipetted 30mL W30111 & filled to vol w/ CO_2 free dI H_2O exp 11/15/12

W30113 CES 10/15/12 — Alk ICV (75mg/L) - Into a 100mL vol pipetted 3mL W30111 & filled to vol w/ CO_2 free dI H_2O. exp 11/15/12

W30114 CES 10/15/12 — Alk Ical/CCV stock - Into a 250mL vol ~~pipetted~~ dissolved 10/15/12 0.1625g Na_2CO_3 W28305 & filled to vol w/ CO_2 free dI H_2O exp 11/15/12

~~W300~~ W30115 CES 10/15/12 — Alk Ical exp 11/15/12

	mls W30114	final vol w/ CO_2 free dI H_2O
A	30	100
B	25	
C	20	
D	15	
E	10	
F	5	
G	3	
H	1	
I	0	

W30116 CES 10/15/12 — KHP Buffer - Into a beaker dissolved 2.5g KHP W29079 in 450mL CO_2 free dI H_2O & 42.5mL 0.1M HCl W29078 & adj pH to 3.1 ± 0.05 exp 10/22/12

W30117 ESC 10/15/12 — 50% HCl: Into a large beaker volumetrically added 300mL DI H_2O & 300mL HCl W29947. exp: 10/15/13

Continued on Page

Read and Understood By

Signed Date Signed Date

W30051 EJC 10/8/12 Hypochlorite: Into a 500mL vol. volumetrically added 285mL Bleach W29883 & brought to vol. w/ DI H_2O. exp: 10/9/12

W30052 EJC 10/8/12 Cupric Dig Soln: Into a 2L vol dissolved 268g potassium sulfate W29896 + 94.6g copper Sulfate W29442 + volumetrically added 268mL H_2SO_4 W30018 + filled to vol w/ dI H_2O. exp 11/8/12

W30053 EJC 10/8/12 NH_3 ICV/LCS (5mg/L) Into a 100mL vol. pipetted 0.5mL NH_3 ICV/LCS 1000mg/L stock W29098 & brought to vol. w/ H_2SO_4 Diluent W29994. exp: 10/15/12

W30054 EJC 10/8/12 NH_3 LCSS (5mg/L) Into a 50mL vol. pipetted 0.25mL NH_3 ICV/LCS 1000mg/L stock W29098 & brought to vol. w/ 2M KCl W30012 exp: 10/15/12

W30055 CES 10/8/12 IC LCS/ICV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC LCS/ICV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 20 mL of Custom Mix Stock Standard (175 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 1250 mg/L Sulfate, and 750 mg/L Chloride) W 29804 and brought to volume with Milli-Q DI H_2O.
EXP (1 Month): 11/8/12

W30056 EJC 10/8/12 Sulfide LCSW: Into a 200mL vol. pipetted 1mL Sulfide 1000mg/L stock W30002 & brought to vol w/ DI H_2O. exp: 10/9/12

W30057 EJC 10/8/12 RSulfide LCSW (2mg/L) Into a pca cup volumetrically added 10mL DI H_2O + 0.02mL Sulfide LCS 1000mg/L stock W30002. exp: 10/9/12

W30058 EJC 10/8/12 RSulfide LCSS (100mg/kg) Into a pca cup volumetrically added 10mL DI H_2O, 0.5g sand W23481 & pipetted 0.05mL Sulfide LCS 1000mg/L stock W30002. exp: 10/9/12

Continued on Page

Read and Understood By

Signed Date Signed Date

W30002 CES 9/27/12 — Sulfide LCS Stock 1000mg/L – Into a 200mL vol dissolved 1.5g Na Sulfide W22510 & filled to vol w/ 0.25N NaOH W29987. exp 10/27/12

W30003 CES 9/27/12 — Sulfide LCS – Into a 200mL vol pipetted 1mL W30002 & filled to vol w/ dI H_2O. exp 9/28/12

W30004 CES 9/27/12 — Iodine – Ricca cat # 3975-32 lot # 5/2013 (use 9/2012) 4205365 exp 5/2013

W30005 CES 7/28/12 — Cupric Pig Soln – Into a 2L vol dissolved 268g potassium sulfate W29696 14.6g copper sulfate W29442 & volumetrically added 268mL H_2SO_4 W29443 & filled to vol w/ dI H_2O. exp 10/28/12

W30006 BMS 09/28/12 — TOCW CCV Std. (50mg/L): Into a 100mL vol., pipetted 5.0mL of W29589 and brought to volume with Milli Q H_2O. Exp. 10/28/12.

W30007 BMS 09/28/12 — TOCW LCS Std. (50mg/L): Into a 100mL vol, pipetted 5.0mL of W29590 and brought to volume with Milli Q H_2O. Exp 10/28/12.

W30008 9/28/12 ESC 9-28-12 — EDTA soln: Into a 2L vol. dissolved 100g EDTA W28198 & 8g NaOH W29842 & brought to vol. w/ DI H_2O. Degassed & added ≈ 4mL FFDG W29018. exp: 10/28/12

W30009 ESC 9/28/12 — Phenolate. Into a 500mL vol. dissolved 16g NaOH W29842 & volumetrically added 44mL phenol W29621 & brought to vol. w/ DI H_2O. exp. 10/5/12

W30010 ESC 9/28/12 — Hypochlorite. Into a 500mL vol. volumetrically added 285mL Bleach W29883 & brought to vol. w/ DI H_2O. exp: 9/29/12

W30011 ESC 9/28/12 — NH_3 ICV/LCS (5mg/L) Into a 100mL vol. pipetted 0.5mL NH_3 ICV/LCS 1000mg/L W29098 & brought to vol. w/ H_2SO_4 Diluent W29994. exp: 10/5/12

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W29986 EJC 9/26/12 NH3 Buffer - Into a 500mL vol dissolved 25g EDTA W28193 in volume Initially added 162.5mL 1N NaOH to 297oz + filled to volume with DI H2O. EXP 10/26/12

W29987 EJC 9/26/12

0.25 M Sodium Hydroxide

Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 29842 and brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 10/26/12

W29988 EJC 9/26/12

CN ICAL/CCV Working Standard (10mg/L)

Into a 100 mL volumetric flask pipetted 1 mL CN ICAL/CCV Stock Standard 1000 mg/L W 28755 and brought to volume with 0.25 M NaOH W 29987. EXP (1 week): 10/3/12

W29989 EJC 9/26/12

CN ICAL

All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W 29987. EXP (1 Week): 10/3/12

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W29988	Final Volume (mL)	True Value (µg/L)
1	2 EJC 9/26/12	200	100
2	0.75	100	75
3	~~0.5~~ 0.5 EJC 9/26/12	~~100~~ ~~200~~ 100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

W29990 EJC 9/26/12

CN LCS/ICV Working Standard (10mg/L)

Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W 29327 and brought to volume with 0.25 M NaOH W 29987. EXP (1 week): 10/3/12

W29991 EJC 9/26/12

CN LCS/ICV (50 µg/L)

Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W 29990 and brought to volume with 0.25 M NaOH W 29987. EXP (1 week): 10/3/12

Read and Understood By

Signed Date Signed Date

PROJECT _____ Continued From Page _____

W29940 CER 9/20/12 — TKN LOQ W Into a 50mL vol. pipetted 6mLs W29863 + filled to vol. w/ DI H_2O. True value = 1.2mg/L exp: 10/13/12

W29941 CER 9/20/12 — TKN LOD Water Into a 50mL vol. pipetted 25 mL W29940 + filled to vol. w/ DI H_2O. exp: 10/13/12 True value 0.6 mg/L

W29942 CER 9/20/12 — Conductivity Standard Cat # 09-328-3 lot 0C106S1 exp: 5/1/13

W29943 EJC 9/21/12

Chloramine-T Reagent

Into a 500 mL volumetric flask dissolved 2 g chloramine-T W 28760 and brought to volume with DI H_2O. EXP (24hr): 9/22/12

W29944 EJC 9/21/12

Pyridine Color Reagent

Into a 500 mL volumetric flask dissolved 7.5 g barbituric acid W 27376+29946 volumetrically added 37.5 mL pyridine W 29349, and pipetted 7.5 mL hydrochloric acid W 29947 and brought to volume with DI H_2O.
EXP (1 week): 9/28/12

W29945 EJC 9/21/12

CN Buffer Reagent

Into a 500 mL volumetric flask dissolved 48.5 g potassium phosphate monobasic W 27936 and brought to volume with DI H_2O.
EXP (1 month): 10/21/12

W29946 EJC 9/21/12 — Barbituric Acid: Fisher Cat#01308-100 Lot#106584A

W29947 EJC 9/21/12 — Hydrochloric Acid: Fisher Cat# A144C-212 Lot# 114912

W29948 EJC 9/21/12 — H_2SO_4 dilut - Into a 2 L vol pipetted 32mL H_2SO_4 W28748 + filled to final vol of 1.5L in a large carboy w/ a L H_2O. exp ~~9/19/12~~ 9/21/12

W29949 mM 9/21/12 — Methyl orange Reagent - Into a 500mL vol. volumetrically added 50mL W28381 + brought to vol. w/ CO_2 free DI H_2O exp 10-21-12

Continued on Page

Read and Understood By

Signed Date Signed Date

Date

W29840 ESC 9/11/12 TP Sulfuric: Into a 1L vol. volumetrically added 135mL TMG H_2SO_4 W28718 +brought to vol. w/ DI H_2O. Degassed + added ≈0.5mL FFDGW exp: 9/18/12

W29841 ESC 9/11/12 TP NaOH: Into a 1L vol. dissolved 105g NaOH W28869+W29842 +brought to vol. w/ DI H_2O. Degassed +added ≈6mL FFDGW exp: 9/18/12

W29842 ESC 9/11/12 NaOH: Fisher Cat#S318-3 Lot#120731 exp: 9/11/17

W29843 ESC 9/11/12 TP ICAL (100mg/L): Into a 200mL vol. pipetted 20mL PO4 ICAL/CCV 1000mg/L stock W28943 +brought to vol. w/ H_2SO_4 Diluent W29779, exp: 9/18/12

W29844 mnl 9/11/12 Alk LOQ check: Into a 100mL vol. pipetted 8mL's Alk CCV W29836+ brought to vol. w/ CO_2 free DI H_2O TV=30mg/L exp 10-11-12

W29845 mnl 9/11/12 Alk LOD check 10mL W29844 + 10mL CO_2 free DI H_2O TV=15mg/L exp 10-11-12

W29846 ESC 9/11/12 Oxidation Reagent: Into a 500mL vol. dissolved 2.5g potassium peroxydisulfate W26492 +brought to vol. w/ DI H_2O. Degassed + 1.1-1.2 w/ TMG H_2SO_4 W28718. exp: 9/18/12

W29847 ESC 9/11/12 Ascorbic Acid Reagent: Into a 1L vol. dissolved 11g ascorbic acid W29826 +brought to vol. w/ DI H_2O. exp: 9/12/12

W29848 mnl 9/11/12 Rosalic Acid: dissolved 0.2g Rosalic W23623 into 4mL NaOH ~~W27638~~ W29702 + 16mL milli Q H_2O exp 10/11/12 9-11-12 mnl

W29849 ESC 9/11/12 TP ICV/LCS (10mg/L): Into a 100mL vol. pipetted 1mL PO4 ICV/LCS 1000mg/L stock ~~W29779~~ W29843 +brought to vol. w/ H_2SO_4 Diluent W29779. exp: 9/18/12 ESC 9/11/12

Continued on Page

Read and Understood By

Signed Date Signed

W28923 dlw 5/14/12 CN ICAL

All levels pipetted into volumetric flasks and brought to volume with 0.25 M NaOH W28802. EXP (1 Week): 5/21/12

Level	mLs ICAL/CCV Working Standard 10,000 µg/L W28922	Final Volume (mL)	True Value (µg/L)
1	2	200	100
2	0.75	100	75
3	0.5	100	50
Level	mLs 100 µg/L standard (level 1)	Final Volume (mL)	True Value (µg/L)
4	15	50	30
5	20	100	20
6	5	50	10

W28924 dlw 5/14/12 CN LCS/ICV Working Standard& Spike (10mg/L)

Into a 100 mL volumetric flask pipetted 1 mL CN LCS/ICV Stock Standard 1000 mg/L W28755 and brought to volume with 0.25 M NaOH W28802. EXP (1 week): 5/21/12

W28925 dlw 5/14/12 CN LCS/ICV (50 µg/L)

Into a 200 mL volumetric flask pipetted 1 mL CN LCS/ICV Working Standard 10,000 µg/L W28924 and brought to volume with 0.25 M NaOH W28802. EXP (1 week): 5/21/12

W28926 ES 5/14/12 TCN Buffer – Into a 2L vol dissolved 100g Na tartrate tetrahydrate W28695, 67.2g ~~di-sodium hydrogen phosphate dihydrate~~ Sodium phosphate dibasic dihydrate ES 5/14/12 W28424, 90g NaOH → filled to vol w/ dI H_2O after degassing add ~ 5mL Brij W28891 exp 6/14/12

W28927 ESC 5/14/12 RSulfide LCSS: Into a glass jar pipetted 0.05mL sulfide 1000mg/L stock W28894 ESC 5/14/12 into 10mL DI H_2O + 0.5g sand W23481. exp: 5/15/12

W28928 ESC 5/14/12 RCN LCSS: Into a specimen cup pipetted 0.1mL CN LCS 1000mg/L stock W28297 into 10mL DI H_2O + 5g sand W23481. exp: 5/15/12

Continued on Page

Read and Understood By

Signed Date Signed Date

W28887 ESC 5/8/12 — TCLP Buffer: Into a 250mL vol dissolved 9.45g NH_4Cl W28515 & volumetrically added 71.5mL ammonium hydroxide W26415 & filled to vol w/ DI H_2O. exp 5/8/13

W28888 ESC 5/9/12 — H_2SO_4 Dilvent: Into a large carboy volumetrically added 16mL TMG H_2SO_4 W28718 & brought to a final vol. of 8L w/ DI H_2O. exp. 6/9/12

W28889 ESC 5/9/12 — TP ICAL (100mg/L): Into a 200mL vol. pipetted 20mL PO_4 ICAL/CCV 1000mg/L stock W27453 & brought to vol. w/ H_2SO_4 Dilvent W28888 exp: 5/16/12

W28890 ESC 5/9/12 — TP ICV/LCS (2) (10mg/L): Into a 100mL vol. pipetted 1mL PO_4 ICV/LCS W28068 & brought to vol. w/ H_2SO_4 Dilvent W28888 exp: 5/16/12 ESC 5/9/12

W28891 ESC 5/9/12 — TP Dig check (10mg/L): Into a 100mL vol. pipetted 10mL UV Phos Dig ✓ 100mg/L W28744 & brought to vol. w/ H_2SO_4 Dilvent W28888. exp: 5/16/12

W28892 ESC 5/9/12 — Molybdate: Into a 2L vol. volumetrically added 300mL molybdate stock W28832 & 70mL antimony stock W28856 & 60mL TMG H_2SO_4 W28718 & brought to vol. w/ DI H_2O. exp: 6/9/12

W28893 ESC 5/9/12 — Ascorbic Acid Reagent: Into a 1L vol. dissolved 11g ascorbic acid W28581 & brought to vol. w/ DI H_2O. exp: 5/10/12

W28894 dlw 5/9/12 — Sulfide LCS Stk 1000mg/L: Into a 200mL vol. flask, dissolve 1.5g Na Sulfide W22510 & bring to vol. w/ 0.25N NaOH W28802 tv=1000mg/L X: 6/9/12

W28895 ESC 5/9/12 — TP PT GW: Into a 200mL vol. pipetted 1mL PT 153100 concentrate & brought to vol. H_2SO_4 Dilvent W28888. exp: 5/16/12

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W28848 EJC 5/14/12 EJC 5/14/12 Ascorbic Acid Reagent: Into a 1L vol. dissolved 11g ascorbic acid W28581 & brought to vol. w/DI H_2O. exp: 5/14/12 5/5/12 EJC 5/14/12

W28849 Lm 5/3/12 Sulfide LCS: Into a 200mL vol. flask, pipet 1mL W28592 & fill to vol w/ DI H_2O X:5/4/12

W28850 Lm 5/3/12 Phenylarsine oxide soln' 0.025N Cat# 61124-0010 lot # B0706193

W28851 Lm 5/5/12 Reactive CN 0.5N H_2SO_4- Into a 500mL vol. flask, pipet 7mL H_2SO_4 W28348 & bring to vol w/ DI H_2O X:5/5/13

W28852 Bms 05/07/12 TOCS Curve: Weighed up ~ 0, 5, 10, 20, 30, 40, and 50 mg of Dextrose (W23193).

W28853 Lm 5/7/12 Phenolic LCS: Into a 200mL vol. flask, pipet 0.1mL W26046 & fill to vol. w/ DI H_2O X:5/14/12

W28854 Lm 5/7/12 Lm 5/7/12 Phenolic ICAL working: Into a 200mL vol. flask, pipet 2mL W26909 & fill to vol w/ DI H_2O X:5/14/12 fv = 10 mg/L

W28855 Lm 5/7/12 Phenolic ICAL: Into a 100mL vol. flask pipet 10mL W28854 & fill to vol. w/ DI H_2O X:5/14/12 fv = 1000µg/L

W28856 EJC 5/7/12 Antimony Potassium Tartrate stock: Into a 500mL vol. dissolved 1.6g antimony potassium tartrate ~~W28695~~ W23460 & brought to vol. w/DI H_2O exp: 7/7/12 EJC 5/7/12

W28857 EJC 5/7/12 TP NaOH Reagent: Into a 1L vol. dissolved 105g NaOH W28199 & brought to vol w/DI H_2O. After degassing added approximately 2mL FF06 W28110 exp: 6/7/12

W28858 EJC 5/7/12 H_2SO_4 Diluent: Into a large carboy pipetted 20mL TMG H_2SO_4 W28718 & brought to a final vol. of 10L w/ DI H_2O. exp: 6/7/12

Continued on Page

Read and Understood By

Signed Date Signed Date

W28344 3/8/12 CES

IC CCV Mixed Standard (7 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 50 mg/L Sulfate, and 30 mg/L Chloride) *Diluted 1:1 daily with IC CCV Nitrite Standard to equal a value of 3.5 mg/L Fluoride, Bromide, Nitrate, and Phosphate, 25 mg/L Sulfate, and 15 mg/L Chloride

Into a 500 mL volumetric flask pipetted 3.5 mL 1000 mg/L Fluoride W 27048, Phosphate W 27453, Bromide W 25936, and Nitrate W 27863, 15 ml 1000 mg/L Chloride W 26507, and 25 ml 1000 mg/L Sulfate W 26573 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 4/8/12

W28345 3/8/12 CES

IC Mixed Spike Standard (64 mg/L Bromide, Nitrate, and Phosphate, 256 mg/L Chloride and Sulfate)

Into a 100 mL volumetric flask pipetted 6.4 mL 1000mg/L Bromide W 25936, Nitrate W 27863, and Phosphate W 27453 and 25.6 mL 1000 mg/L Chloride W 26507 and Sulfate W 26573 and brought to volume with Milli-Q DI H_2O. EXP (1 Month): 4/8/12

W28346 3/8/12 CES

Chloramine-T Reagent

Into a 500 mL volumetric flask dissolved 2 g chloramine-T W 27377 and brought to volume with DI H_2O. EXP (24hr): 3/9/12

W28347 Lem 3/8/12 W28348 &

TKN DIG Soln: Into 2 Seperate 2L vol. flasks, dissolve 268g potassium sulfate W28100 & 14.6g copper sulfate W26399 & volumetrically add 268mL H_2SO_4 W27974 & brought to vol. w/ DI H_2O. Add both 2L together in a large carboy to make a final w/ 4L X: 4/8/12

W28348 Lem 3/8/12

Sulfuric Acid - fisher certified ACS plus Cat# A300S-212 lot # 114473

W28349 3/8/12 CES 3/10/12

Pyridine Color Reagent

Into a 500 mL volumetric flask dissolved 7.5 g barbituric acid W 27376, volumetrically added 37.5 mL pyridine W 25823, and pipetted 7.5 mL hydrochloric acid W 26266 and brought to volume with DI H_2O.

EXP (1 week): 3/15/12

W28350 CES 3/8/12

LEM TKN BSW - In to a 50mL vol pipetted 0.35mL W27749 + filled to vol w/ DI H_2O.

Continued on Page

Read and Understood By

Signed Date Signed Date

W28287 mL | Alk | FCal
2-29-12 | m/s | W28285
A 30
B 25
C 20
D 15
E 10
F 5
G 3
H 1
I 0

to Vol. w/ CO_2 free DI H_2O
100
exp 3/29/12

W28288 EJC
2/29/12
50% HCl: Into a beaker volumetrically added 250mL HCl W26266 + 250mL DI H_2O. exp: ~~2~~ 3/1/15
EJC 2/29/12

W28289 mL
2/29/12
KHP Buffer Into a beaker dissolved 2.5g KHP W23082 into 450ml CO_2 free DI H_2O Vol. added 42.5ml 0.1m HCL W27733 & adjusted PH to 3.1 ± 0.05 exp 3-2-12

W28290 mL
2/29/12
Methyl Orange Reagent into a 500ml Vol. volumetrically added 50ml Methyl Orange Soln. W26043 + brought to Vol. w/ CO_2 free DI H_2O exp 3/29/12

W28291 mL
2/29/12
Alk LCS into a 200ml Vol. pipetted 30ml W28286 + brought to Vol. w/ CO_2 free DI H_2O exp 3/29/12

W28292 mL
2/29/12
Alk ECV into a 100ml Vol. pipetted 3ml W28286 + brought to Vol. w/ CO_2 free DI H_2O exp 3/29/12

W28293 EJC
2/29/12
TKN Diluent: Into a large carboy volumetrically added 3.65L TKN DI Soln W28261 + brought to a final vol. of 9.125L w/ DI H_2O. exp: 3/29/12

W28294 EJC
2/29/12
Hypochlorite: Into a 1L vol. volumetrically added 57mL Bleach W27999 + brought to vol. w/ DI H_2O exp: 3/1/12

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W27704 ESC 12-12-11 IC LL NO_2 spike: Into a 100mL vol. pipetted 5mL NO_2 1000mg/L ICV/LCS stock W25893 & brought to vol. w/ milli Q DI H_2O. tv=50mg/L NO_2 ~~Exp:~~ ESC 12-12-11 exp: 12-30-11

W27705 ESC 12-12-11 IC LL PO_4 spike: Into a 100mL vol. pipetted 3mL PO_4 1000mg/L ICV/LCS stock W25886 & brought to vol. w/ Milli Q DI H_2O tv=30mg/L PO_4 exp: 1-12-12

W27706 mml 12-12-11 LEM NH_3 distilled blind Spike into a 50mL vol. pipetted 0.15mL W27279 & brought to Vol. w/ DI H_2O TV=3mg/L

W27707 KWB 12-12-11 TKN Hypochlorite - Into a 500 mL vol. flask vol. added 30mL Bleach W27235 and brought to vol. w/ DI H_2O. Exp. 12-13-11

W27708 KWB 12-12-11 TKN Buffer - Into a 2L vol. flask dissolved 34g EDTA W26934 60g Sodium Phosphate Dibasic Heptahydrate W27218 and 130g NaOH W27608 and brought to vol. w/ DI H_2O. Exp. 1-12-12

W27709 ESC 12-12-11 LL TP Ascorbic: Into a 500mL vol. dissolved 5.5g Ascorbic Acid W27710 ~~W27224~~ ESC 12-12-11 & brought to vol. w/ DI H_2O exp: 12-13-11

W27710 ESC 12-12-11 L-Ascorbic Acid Fisher Cat# BP351-500 Lot# 113817 exp: 12-12-16

W27710 Lem 12/12/11 Sulfide ~~LCS~~ stock: Into a 200mL vol. flask dissolve 1.5g Na Sulfide W22510 & brought to vol. w/ 0.25M NaOH W27711 TV=1000mg/L exp: 1/12/12

W27711 Lem 12/12/11 0.25 M Sodium Hydroxide
Into a 2 L volumetric flask dissolved 60 g sodium hydroxide W 26953 and brought to volume with DI H20, then brought to final volume of 6 L in a large carboy with DI H20. EXP (1 Month): 1/12/11

~~W27712 KWB Fisher Ascorbic Acid Cat# NLT KWB 12-12-11~~

W27712 KWB 12-12-11 Sodium Phenolate Color Reagent
Into a 500mL volumetric flask dissolved 16g NaOH W 27608 and volumetrically added 44mL phenol W 26516 and brought to volume with DI H_2O. EXP(1 week): 12-19-11

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W27292 ESC 10/10/11 — Sulfuric Acid Soln 0.02N Fisher Cat# SA226-1 Lot# 112721 exp: 10/10/12

W27293 Lem 10/11/11 — NH_3 LCS: Into a 200mL vol. pipet 1mL NH_3 stock W27279 & bring to vol. w/ D.I. H_2O ↑V=5mg/L exp: 10/18/11

W27294 ESC 10/11/11 — TKN Buffer: Into a 2L vol. dissolved 34g EDTA W26934 60g sodium phosphate dibasic heptahydrate W27218 + 130g NaOH W26453 & brought to vol. w/ DI H_2O exp: ~~10~~ 11/11/11 ESC 10/11/11

W27295 ESC 10/11/11 — Na Salicylate/Na Nitroprusside: Into a 1L vol. dissolved 150g Na Salicylate W26826 & 1g Na Nitroprusside W26339 & brought to vol w/ DI H_2O exp: 11/11/11

W27296 ESC 10/11/11 — TKN Hypochloride: Into a 500mL vol. volumetrically added 30mL Bleach W27235 & brought to vol. w/ DI H_2O exp: 10/12/11

W27297 Lem 10/11/11 — 75% glassware detergent - mixed 1 Bottle (3.8L) Contrad Cat # 6002 w/ 1.27L D.I. H_2O exp: 10/11/12

W27298 Lem 10/11/11 — Dishwasher Acid: Into a 2L vol. flask dissolve 820g sodium citrate lot: 472795 & filled to vol. w/ DI H_2O exp: 10/11/12

W27299 KMS 10-11-11 — 1:1 HCl Into a 500 mL vol. flask volumetrically added 250mL HCl W26266 and brought to vol. w/ DI H_2O Exp 10-11-12

W27300 ESC *10-12-6 — Cr^{+6} soil ICAL: Into 5 50mL vol. flasks pipetted 0, 1, 2.5, 5, +10mL Cr^{+6} ICAL/CCV working 10mg/L W26141 & brought to vol. w/ Dig Soln W27084 exp. 10/19/11

W27301 ESC 10/12/11 — Cr^{+6} soil LCSS: Into a 50mL vol. pipetted 5mL Cr^{+6} LCS working 10mg/L W26145 & brought to vol. w/ Dig Soln W27084

ESC 10/12/11

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
[signature]	11-2-11		

W27258 KMB Sulfide Stock 1000 mg/L - Into a 200 mL vol. flask
10-4-11 dissolved 1.5g Sodium Sulfide W22510 and brought to
vol. w/ 0.25 N NaOH W27027 Exp. 11-4-11 TV = 1000 mg/L

W27259 KMB Sulfide LCS - Into a 200 mL vol. flask pipetted 1mL W27258
10-4-11 and brought to vol. w/ DI H_2O. Exp. 10-5-11 TV = 5 mg/L

W27260 Boric Diluent
10-5-11 KMB Into a 2L volumetric flask volumetrically added 200mL boric receiving solution W 27247 and brought to volume with DI H_2O. EXP(1 month): ~~11-5-11~~ KMB 10-5-11

W27261 NH_3 Distilled ICAL
10-5-11 KMB All levels pipetted into volumetric flasks and brought to volume with Boric Diluent W 27260. EXP (1 Week): 10-12-11

Level	mLs ICAL/CCV Stock Standard 1,000 mg/L W 26652	Final Volume (mL)	True Value (mg/L)
1	0.4	50	8.00
2	0.2	50	4.00
3	0.1	50	2.00
4	0.05	50	1.00
5	0.025	50	0.50
6	0.01	100	0.10
7	0	50	0.00

W27262 Sodium Phenolate Color Reagent
10-5-11 KMB Into a 500mL volumetric flask dissolved 16g NaOH W 26953 and volumetrically added 44mL phenol W 26516 and brought to volume with DI H_2O. EXP(1 week): 10-12-11

W27263 NH_3 Sodium Hypochloride
10-5-11 KMB Into a 500mL volumetric flask volumetrically added 250mL Bleach W 27235 and brought to volume with DI H_2O. EXP(24 hours): 10-6-11

W27264 KCl Extraction Solm. - Into a 500 mL vol. flask dissolved 75g KCl
10-6-11 KMB W26938 and brought to vol. w/ DI H_2O. Exp. 11-6-11

11-2-11 mml

Continued on Page

Read and Understood By

mml 11-2-11
Signed Date Signed Date

PROJECT _____ Notebook No. _____ 29

Continued From Page _____

W26259 CES 5/26/11 NH_3 Undistilled ICAL (2.5mg/L)
Into a 100mL volumetric flask pipetted 0.25mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 24182 and brought to volume with H_2SO_4 Diluent W 26262.
EXP(1 week): 6/2/11

W26260 CES 5/26/11 NH_3 Undistilled CCV (1.25mg/L)
Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN CCV/ICAL Stock Standard 1000mg/L W 24182 and brought to volume with H_2SO_4 Diluent W 26262. EXP(1 week): 6/2/11

W26261 CES 5/26/11 NH_3 Undistilled ICV/LCS (1.25mg/L)
Into a 100mL volumetric flask pipetted 0.125mL NH_3/TKN ICV/LCS Stock Standard 1000mg/L W 26058 and brought to volume with H_2SO_4 Diluent W 26262. EXP(1 week): 6/2/11

W26262 CES 5/26/11 NH_3 H_2SO_4 Diluent
Into a 2L volumetric flask pipetted 4mL H_2SO_4 W 25871 and brought to volume with DI H_2O. EXP(1 month): 6/26/11

W26263 EJC 5/26/11 TSS LCS: Into a 1L vol. mixed 0.4g diatomaceous Earth W24339 + brought to vol. w/ DI H_2O exp: 6-26-11

W26264 CES 5/27/11 LL TPhos Carrier/Diluent - Into a 2L vol volumetrically added 80mL Am Ac W26245, pipetted 14.4mL H_2SO_4 W25793 + filled to vol w/ DI H_2O. exp 6/1/11

W26265 CES 5/27/11 LL TPhos Ical working - Into a 100mL vol pipetted 1mL W25444 filled to vol w/ diluent W26264. exp 6/1/11

W26266 CES 5/27/11 Hydrochloric Acid - Fisher cat# A508-4 lot # 111011 exp 12/13

W26267 5-27-11 NH_3/TKN LCS/ICV Stock (1000mg/L NH_3 as N)
Into a 1 L volumetric flask dissolved 3.819g ammonium chloride W 23266 and pipetted 2mL H_2SO_4 W 25871 and brought to volume with DI H_2O.
EXP(1 month): 6-27-11

W26268 mM 5-27-11 TKN/TPhos LCS into a 1L vol. pipetted 10mL W26267 + 10mL W25886 + brought to vol. w/ DI H_2O exp 6-27-11 TV = 10mg/L

Continued on Page

Read and Understood By

Signed Date Signed Date

W23478 CES 4/6/10 — Phenolic CCV – Into a 200mL vol pipetted 0.1mL ~~W21956~~ W22840 CES 4/6/10 & filled to vol w/ dI H_2O. exp 4/13/10

W23479 CES 4/6/10 — Phenolic LCS – Into a 200mL vol. pipetted 0.1mL W21956 & filled to vol w/ dI H_2O. exp 4/13/10

*W23480 MWD 4/6/10 — TKN/TPhos ICV – Into a 100 mL vol. pipetted 0.952mL NH3 W23462 & TPhos W23269 & brought to vol. w/ Diluent W23465. exp. 5-5-10

W23481 CES 4/6/10 — Purified Sand – J.T Baker cat # 3382-05 lot # H.366602

W23482 mM 4/6/10 — COD Stock Std. 1000mg/L into a 500mL Vol. dissolved 0.425g KHP W23082 & brought to Vol. w/ dI H_2O exp 7/6/10

W23483 EJC 4/6/10 — 0.25N NaOH: Into a 2L vol. dissolved ~~20~~ 6 EJC 4/6/10 g NaOH W22703 & brought to ~~a final~~ vol EJC 4/6/10 w/ DI H_2O, then to a final vol. of 6L in a carboy w/DI H_2O exp: 5/6/10

W23484 EJC ~~4/6/10~~ 4/7/10 EJC 4/7/10 — CN ICV/LCS working std: Into a 100mL vol. pipetted 1mL 1000mg/L CN W23302 & brought to vol. w/ 0.25 N NaOH W23483 exp: 4/14/10

W23485 EJC 4/7/10 — CN LCS/ICV: Into a ~~100~~ 200 EJC 4/7/10 mL vol. pipetted ~~0.5~~ 1 EJC 4/7/10 mL W23484 & brought to vol. w/ 0.25N NaOH W23483 exp: 4/14/10

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

PROJECT

W22510 esc 11/2/09 Sodium Sulfide 9-hydrate Crystal: J.T. Baker Cat# 3910-01 Lot # H09598

W22511 MWO 11-3-09 TPhos Carrier: Into a 1L. vol. dissolved 31.7g Potassium Sulfate W22002 & volumetrically added 48mL H_2SO_4 W22145 & brought to vol. w/ DI H_2O exp. 12-3-09

W22512 MWO 11-3-09 Ascorbic Acid Reagent - Into a 500mL vol. dissolved 30g Ascorbic W22301 & 0.5g SDS W19325 & brought to vol. w/ DI H_2O. exp. 11-4-09

W22513 CES 11/3/09 Cr^{+6} soil Std prep - Into 5 50mL vol pipetted 0, 1, 2.5, 5 & 10mL W21286 - filled to vol w/ dig. soln W22456.

W22513 CES 11/3/09 Cr^{+6} soil ICV - Into a 50mL vol pipetted ~~5mL~~ 4mL CES 11/3/09 W21288 - filled to vol w/ dig soln W22456

W22514 CES 11/3/09 Cr^{+6} soil LCSS - Into a 50mL vol pipetted 4mL W21288 - filled to vol w/ dig soln W22456.

3/09 W22515 ~~W22284~~ ESC 11/3/09 IC NO_2 CCV: Into a 500mL vol. pipetted 3.5mL NO_2 stock W20512 & brought to vol. w/ Milli Q H_2O exp: 12/3/09

W22516 ESC 11/3/09 IC NO_2 + F spike: Into a 100mL vol. pipette 12.8mL NO_2 stock W20512 & 3.2mL F stock W22128 & brought to vol. w/ Milli Q H_2O exp: 12/3/09

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
mwl	12-22-09		

WSOLIDS Analytical Run
96911 on 08/21/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
99335	339568	083SB-0022-0001-IDW	08/15/2013 0835		ECC	RVAAP	SOLIDS,PERCENT		S	**4**	
	340972	083SB-0022-0001-IDW	08/15/2013 0835	DUP 339568			SOLIDS,PERCENT	0			

2 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

	Method: Total Solids SM2540B&G / Percent Solids SW846-5030A				
LIMS Run #(s)	**Analysis Date**	**Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**
96720, 96910, 96911, 96912	8/20/2013	TPV/BMS	RLD	8/21/2013	Yes

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	**Acceptance Criteria**	**Analyst Review**		**Independent Review**		**Comments:**
		Yes	No	Yes	No	(indicate reference to an attachment if necessary)
1. Were samples analyzed within hold time?	14 days or program/project specific	Yes		Yes		Qualify data prepared after hold time
2. Were samples dried overnight?	> 8hours	Yes		Yes		If No: place samples back into oven for mimium of 8 hours of total dry time.
3. Were drying start and stop times recorded?	---	Yes		Yes		If No: record times and temperatures
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix or at program/project specific frequency	Yes		Yes		If No: reprep samples with appropreate frequency for a duplicate.
5. Were the duplicates within acceptable limits?	Within in-house or program/project specific QC limits	Yes		Yes		IF No: reprep and reanalyze samples or qualify parent sample result (Y).
6. Are all samples on the job lists accounted for?	---	Yes		Yes		If No: analyze samples that were were missed.

SUBCONTRACTED ANALYSIS DOCUMENTS

Microbac

Laboratory Report Number: L13081126

Patrick Letterer
CT Laboratories
1230 Lange Court
Baraboo, WI 53913

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Stephanie Mossburg – Team Chemist/Data Specialist
(740) 373-4071
Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on September 05 2013

David Vandenberg – Managing Director

State of Origin: MI
Accrediting Authority: N/A ID:N/A
QAPP: DOD Ver 4.2

Microbac

Lab Report #: L13081126
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Stephanie Mossburg

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
0016169	H	4.0		1001910573010004575000546724723024	X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	NA
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	NA

Microbac

Lab Report #: L13081126
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Stephanie Mossburg

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
083SB-0022-0001-IDW	L13081126-01	08/15/2013 08:35	08/21/2013 10:49
083SB-0021-0001-IDW	L13081126-02	08/15/2013 09:00	08/21/2013 10:49

Microbac REPORT L13081126
PREPARED FOR CT Laboratories
WORK ID:

1.0 Summary Data 5
1.1 Narratives 6
1.2 Certificate of Analysis 9
2.0 Full Sample Data Package 13
2.1 Semivolatiles Data 14
2.1.1 Herbicide GC Data (8151) 15
2.1.1.1 Summary Data 16
2.1.1.2 QC Summary Data 20
2.1.1.3 Sample Data 44
2.1.1.4 Standards Data 49
2.1.1.5 Raw QC Data 70
3.0 Attachments 77

1.0 Summary Data

1.1 Narratives

Login Number: L13081126
Department: General Chromatography
Analyst: Eric Lawson

METHOD

Analysis SW-846 8151A

HOLDING TIMES

Sample Preparation: The TCLP leachate was not prepared by Microbac OVD.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 20%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Samples 01 and 02 associated with this LCS were not re-extracted due to insufficient sample volume.

Sample #	Analyte	Date	Result	Lower	Upper	Type
WG442712-02	2,4,5-TP (Silvex)	2013-08-29 15:50:00	45.0	50	115	Recovery
WG442712-03	2,4,5-TP (Silvex)	2013-08-29 16:16:00	39.0	50	115	Recovery

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peakcompletely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low areacounts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene andbenzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 70446
Approved By: Mike Cochran

1.2 Certificate of Analysis

Microbac

Lab Report #: L13081126
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L13081126-01	**PrePrep Method:**		**Instrument:**	HP17
Client ID:	083SB-0022-0001-IDW	**Prep Method:**	METHOD	**Prep Date:**	08/27/2013 11:00
Matrix:	TCLP Leach	**Analytical Method:**	8151A	**Cal Date:**	07/22/2013 17:11
Workgroup #:	WG443055	**Analyst:**	ECL	**Run Date:**	08/29/2013 16:42
Collect Date:	08/15/2013 08:35	**Dilution:**	1	**File ID:**	17G15120.F
Sample Tag:	01	**Units:**	ug/L		

Analyte	Result	Qual	LOQ	LOD	DL	EPA HW#	Reg. Limit
2,4-D	10.0	U	20.0	10.0	5.00	D016	10000
2,4,5-TP (Silvex)	1.00	U	2.00	1.00	0.500	D017	1000

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4-Dichlorophenylacetic acid	70.8	20	144	

U	Analyte was not detected. The concentration is below the reported LOD.

Certificate of Analysis

Sample #:	L13081126-02	**PrePrep Method:**		**Instrument:**	HP17
Client ID:	083SB-0021-0001-IDW	**Prep Method:**	METHOD	**Prep Date:**	08/27/2013 11:00
Matrix:	TCLP Leach	**Analytical Method:**	8151A	**Cal Date:**	07/22/2013 17:11
Workgroup #:	WG443055	**Analyst:**	ECL	**Run Date:**	08/29/2013 17:08
Collect Date:	08/15/2013 09:00	**Dilution:**	1	**File ID:**	17G15121.F
Sample Tag:	01	**Units:**	ug/L		

Analyte	Result	Qual	LOQ	LOD	DL	EPA HW#	Reg. Limit
2,4-D	10.0	U	20.0	10.0	5.00	D016	10000
2,4,5-TP (Silvex)	1.00	U	2.00	1.00	0.500	D017	1000

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4-Dichlorophenylacetic acid	103	20	144	

U	Analyte was not detected. The concentration is below the reported LOD.

Certificate of Analysis

2.0 Full Sample Data Package

2.1 Semivolatiles Data

2.1.1 Herbicide GC Data (8151)

2.1.1.1 Summary Data

Login Number: L13081126
Department: General Chromatography
Analyst: Eric Lawson

METHOD

Analysis SW-846 8151A

HOLDING TIMES

Sample Preparation: The TCLP leachate was not prepared by Microbac OVD.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 20%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Samples 01 and 02 associated with this LCS were not re-extracted due to insufficient sample volume.

Sample #	Analyte	Date	Result	Lower	Upper	Type
WG442712-02	2,4,5-TP (Silvex)	2013-08-29 15:50:00	45.0	50	115	Recovery
WG442712-03	2,4,5-TP (Silvex)	2013-08-29 16:16:00	39.0	50	115	Recovery

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peakcompletely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low areacounts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene andbenzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 70446
Approved By: Mike Cochran

Microbac

Lab Report #: L13081126
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L13081126-01	**PrePrep Method:**		**Instrument:**	HP17
Client ID:	083SB-0022-0001-IDW	**Prep Method:**	METHOD	**Prep Date:**	08/27/2013 11:00
Matrix:	TCLP Leach	**Analytical Method:**	8151A	**Cal Date:**	07/22/2013 17:11
Workgroup #:	WG443055	**Analyst:**	ECL	**Run Date:**	08/29/2013 16:42
Collect Date:	08/15/2013 08:35	**Dilution:**	1	**File ID:**	17G15120.F
Sample Tag:	01	**Units:**	ug/L		

Analyte	Result	Qual	LOQ	LOD	DL	EPA HW#	Reg. Limit
2,4-D		U	20.0	10.0	5.00	D016	10000
2,4,5-TP (Silvex)		U	2.00	1.00	0.500	D017	1000

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4-Dichlorophenylacetic acid	70.8	20	144	

U	Analyte was not detected. The concentration is below the reported LOD.

Sample #:	L13081126-02	**PrePrep Method:**		**Instrument:**	HP17
Client ID:	083SB-0021-0001-IDW	**Prep Method:**	METHOD	**Prep Date:**	08/27/2013 11:00
Matrix:	TCLP Leach	**Analytical Method:**	8151A	**Cal Date:**	07/22/2013 17:11
Workgroup #:	WG443055	**Analyst:**	ECL	**Run Date:**	08/29/2013 17:08
Collect Date:	08/15/2013 09:00	**Dilution:**	1	**File ID:**	17G15121.F
Sample Tag:	01	**Units:**	ug/L		

Analyte	Result	Qual	LOQ	LOD	DL	EPA HW#	Reg. Limit
2,4-D		U	20.0	10.0	5.00	D016	10000
2,4,5-TP (Silvex)		U	2.00	1.00	0.500	D017	1000

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4-Dichlorophenylacetic acid	103	20	144	

U	Analyte was not detected. The concentration is below the reported LOD.

2.1.1.2 QC Summary Data

Example 8151 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup:	WG442712	**Methylene Chloride Lot #:**	COA16868
Analyst:	CPD	**Ether Lot #:**	COA16688
Spike Analyst:	CPD	**Hexane Lot #:**	COA16718
Method:	METHOD	**Methanol Lot #:**	COA16541
Run Date:	08/27/2013 11:00	**2,2,4-Trimethylpentane Lot #:**	COA16885
SOP:	EXH01 Revision 19	**Nacl Lot #:**	COA16609
Spike Witness:	JDH	**Silicic Acid, n-Hydrate, Powder Lot #:**	COA13093
Surr Solution:	STD59462	**NaOH 6N Lot #:**	RGT27235
		12N H2SO4 Lot #:	RGT27613
		Acidified Na2SO4 Lot #:	RGT27589
		Diazomethane Lot #:	RGT27883

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L13081126-01	SAMP		<2>12	8151-TC	100 mL	1 mL			10 mL	Transparent
2	L13081126-02	SAMP		<2>12	8151-TC	100 mL	1 mL			10 mL	Transparent
3	L13081173-01	SAMP		<2>12	8151-TC	100 mL	1 mL			10 mL	Transparent
4	L13081250-01	SAMP		<2>12	8151-TC	100 mL	1 mL			10 mL	Transparent
5	L13081250-02	SAMP		<2>12	8151-TC	100 mL	1 mL			10 mL	Transparent
6	WG442621-01	FBLK1		<2>12	8151-TC	100 mL	1 mL			10 mL	Transparent
7	WG442712-01	BLANK		<2>12	8151-TC	1000 mL	1 mL			10 mL	Transparent
8	WG442712-02	LCS		<2>12	8151-TC	1000 mL	1 mL	1 mL	STD57613	10 mL	Transparent
9	WG442712-03	LCS2		<2>12	8151-TC	1000 mL	1 mL	1 mL	STD57613	10 mL	Transparent
10	WG442712-04	REF	L13081173-01	<2>12	8151-TC	100 mL	1 mL			10 mL	Transparent
11	WG442712-05	MS	L13081173-01	<2>12	8151-TC	100 mL	1 mL	1 mL	STD57613	10 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

L13081126-01	TC LEACHATE FROM ANOTHER LAB
L13081126-02	TC LEACHATE FROM ANOTHER LAB

Analyst:

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 3057238
Report generated: 08/28/2013 17:41

TCLP Non-Volatile

Analyst(s): BG
Date: 8/26/13
Filter Lot #: 63116580 / 71333619
Microbac SOP: TCLP 01 Rev #: 09

** D3987

Analyst / Date		Analyst / Date	
BG 8/26/13		BG 8/27/13	
Time On	Temp On °C	Time Off	Temp Off °C
1500	22	0700	22

Agitator Speed 30 ± 2 rpm ☑

Jug #	Sample #	Tests	Method	Fluid #	Matrix *	% Solid	Pretest pH Initial	Pretest pH Final	Int. Wt. (g)	Fluid Vol. (mL)	Final extract pH
G28	8-1160-01	me, SV	1311	FI-925	S	100	6	2	100.02	2000	5
G4	03	" "	"	F2-308	"	"	8	6	100.05	"	5
G15	05	" "	"	FI-925	"	"	8	5	100.00	"	6
G14	07	" "	"	"	"	"	6	2	100.01	"	6
G22	8-1169-01	" " (*)	"	"	"	"	5	2	100.03	"	5
G26	8-1171-01	" "	"	"	"	"	6	2	100.04	"	6
G13	8-1173-01	me, SV, 8081, 8151 (SPK)	1311	"	"	"	6	2	100.01	"	5
D	8-1173-03	OG, Ph-L, TS, NH3, COD	D3987	DI-H20	"	"	N/A	N/A	70.07	1400	6
D	8-1195-01	me, ph	1311	FI-925	S	100	9	5	100.01	2000	6
"	8-1195-02	me, ph	1312	SF2-255	"	"	N/A	N/A	100.03	"	10
"	8-1196-02	me (SPK)	1311	FI-925	S	100	6	2	100.05	"	5
G5	8-1250-01	me, SV, Pest, Herb	1311	FI-925	S	100	5	2	100.05	"	5
G3	02	" " " "	"	"	"	"	"	"	100.03	"	5
D	03	me	"	"	"	"	"	"	100.01	"	5
N/A	8-1251-01	me	1311	FILT	LW	2.5	N/A	N/A	N/A	N/A	9
G18	8-1252-01	me, SV	"	FI-925	S	100	5	2	100.03	2000	5
D	8-1275-02	me	1311	FI-926	S	100	6	2	100.03	"	5
D	8-1286-01	"	"	"	"	"	"	"	100.01	"	5
N/A	FB1K1	me, 827, 8081, 8151	1311	FI-925	W	N/A	N/A	N/A	N/A	N/A	N/A
N/A	FB1K2	me, 827	"	F2-308	"	"	"	"	"	"	"

BG 8/26/13

*Matrix Code: (S = solid, sand, soil or sludge) (P = paint) (O = organic) (W = water or aqueous waste)
D = Disposable plastic jug
TCLP Pretest weight will be 5.0 g (± 0.1) unless otherwise noted.
Temperature shall be maintained at 23° ± 2 for 18 ± 2 hours unless otherwise noted.

Comments: * 08-1251-01 Filtered SX 8/26/13 @ 1120. Found in document control # 1296. ** D3987 time on 15:00. Time off 9:00 8/27/13. Filtered w/ Lot # 003352. BG * SX foamy upon filtering.

Peer Review By: Chrystina Crawford

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP17 Dataset: 072213
Analyst1: ECL Analyst2: NA
Method: 8151 SOP: GCS04 Rev: 13

Maintenance Log ID: Syringe Filter Lot#:
Eluent ID#:

Workgroups: Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Internal STD: NA Surrogate STD: STD58573 Calibration STD
CCV STD: STD58746 LCS STD: STD57613 MS/MSD STD: STD57613

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	17G14849.F	WG438 HERB CCV	1	1	STD58746	07/22/13 14:00
2	17G14849.R	WG438 HERB CCV	1	1	STD58746	07/22/13 14:27
3	17G14850.F	WG438566-01 HERB ICAL \#5	1	1	STD58746	07/22/13 15:01
4	17G14850.R	WG438566-01 HERB ICAL \#5	1	1	STD58746	07/22/13 15:27
5	17G14851.F	WG438566-02 HERB ICAL \#4	1	1	STD58746	07/22/13 15:27
6	17G14851.R	WG438566-02 HERB ICAL \#4	1	1	STD58746	07/22/13 15:53
7	17G14852.F	WG438566-03 HERB ICAL \#3	1	1	STD58746	07/22/13 15:53
8	17G14852.R	WG438566-03 HERB ICAL \#3	1	1	STD58746	07/22/13 16:19
9	17G14853.F	WG438566-04 HERB ICAL \#2	1	1	STD58746	07/22/13 16:19
10	17G14853.R	WG438566-04 HERB ICAL \#2	1	1	STD58746	07/22/13 16:45
11	17G14854.F	WG438566-05 HERB ICAL \#1	1	1	STD58746	07/22/13 16:45
12	17G14854.R	WG438566-05 HERB ICAL \#1	1	1	STD58746	07/22/13 17:11
13	17G14855.F	WG438566-06 HERB ALT STD	1	1	STD58747	07/22/13 17:11
14	17G14855.R	WG438566-06 HERB ALT STD	1	1	STD58747	07/22/13 17:37
15	17G14856.F	WG438272-01 BLANK	17	1		07/22/13 17:37
16	17G14856.R	WG438272-01 BLANK	17	1		07/22/13 18:03
17	17G14857.F	WG438272-02 LCS	17	1		07/22/13 18:03
18	17G14857.R	WG438272-02 LCS	17	1		07/22/13 18:29
19	17G14858.F	L13070999-02	17	1		07/22/13 18:29
20	17G14858.R	L13070999-02	17	1		07/22/13 18:55
21	17G14859.F	L13070999-01 REF	17	1		07/22/13 18:55
22	17G14859.R	L13070999-01 REF	17	1		07/22/13 19:21
23	17G14860.F	L13070999-03 MS	17	1		07/22/13 19:21
24	17G14860.R	L13070999-03 MS	17	1		07/22/13 19:47
25	17G14861.F	L13070999-04 MSD	17	1		07/22/13 19:47
26	17G14861.R	L13070999-04 MSD	17	1		07/22/13 20:13
27	17G14862.F	L13071000-01	17	1		07/22/13 20:13
28	17G14862.R	L13071000-01	17	1		07/22/13 20:39
29	17G14863.F	WG438225-01 FBLANK	17	1		07/22/13 20:39
30	17G14863.R	WG438225-01 FBLANK	17	1		07/22/13 21:05
31	17G14864.F	WG438194-01 BLANK	1	1		07/22/13 21:05
32	17G14864.R	WG438194-01 BLANK	1	1		07/22/13 21:31
33	17G14865.F	WG438194-02 LCS	1	1		07/22/13 21:31

Page: 1 Approved: 23-JUL-13

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP17 Dataset: 072213
Analyst1: ECL Analyst2: NA
Method: 8151 SOP: GCS04 Rev: 13

Maintenance Log ID: Syringe Filter Lot#:
Eluent ID#:
Workgroups: Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Internal STD: NA Surrogate STD: STD58573
CCV STD: STD58746 LCS STD: STD57613 STD57613

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
34	17G14865.R	WG438194-02 LCS	1	1		07/22/13 21:57
35	17G14866.F	WG438567-01 HERB CCV	1	1	STD58746	07/22/13 21:57
36	17G14866.R	WG438567-01 HERB CCV	1	1	STD58746	07/22/13 22:23
37	17G14867.F	L13070572-04 RE	17	1		07/22/13 22:23
38	17G14867.R	L13070572-04 RE	17	1		07/22/13 22:49
39	17G14868.F	L13070572-05 RE	17	1		07/22/13 22:49
40	17G14868.R	L13070572-05 RE	17	1		07/22/13 23:15
41	17G14869.F	L13070572-06 RE	17	1		07/22/13 23:15
42	17G14869.R	L13070572-06 RE	17	1		07/22/13 23:41
43	17G14870.F	L13070977-01	1	1		07/22/13 23:41
44	17G14870.R	L13070977-01	1	1		07/23/13 00:07
45	17G14871.F	L13070982-03 REF	1	1		07/23/13 00:07
46	17G14871.R	L13070982-03 REF	1	1		07/23/13 00:32
47	17G14872.F	L13070982-04 MS	1	1		07/23/13 00:32
48	17G14872.R	L13070982-04 MS	1	1		07/23/13 00:58
49	17G14873.F	L13070982-05 MSD	1	1		07/23/13 00:58
50	17G14873.R	L13070982-05 MSD	1	1		07/23/13 01:24
51	17G14874.F	L13070982-06	1	1		07/23/13 01:24
52	17G14874.R	L13070982-06	1	1		07/23/13 01:50
53	17G14875.F	WG438567-02 HERB CCV	1	1	STD58746	07/23/13 01:50
54	17G14875.R	WG438567-02 HERB CCV	1	1	STD58746	07/23/13 02:17
55	17G14876.F	WG438441-01 BLANK	17	1		07/23/13 02:17
56	17G14876.R	WG438441-01 BLANK	17	1		07/23/13 02:43
57	17G14877.F	WG438441-02 LCS	17	1		07/23/13 02:43
58	17G14877.R	WG438441-02 LCS	17	1		07/23/13 03:08
59	17G14878.F	WG438441-03 LCS DUP	17	1		07/23/13 03:08
60	17G14878.R	WG438441-03 LCS DUP	17	1		07/23/13 03:34
61	17G14879.F	L13071052-01	17	1		07/23/13 03:34
62	17G14879.R	L13071052-01	17	1		07/23/13 04:00
63	17G14880.F	L13071052-02	17	1		07/23/13 04:00
64	17G14880.R	L13071052-02	17	1		07/23/13 04:26
65	17G14881.F	L13071052-03	17	1		07/23/13 04:26
66	17G14881.R	L13071052-03	17	1		07/23/13 04:52
67	17G14882.F	L13071052-04	17	1		07/23/13 04:52
68	17G14882.R	L13071052-04	17	1		07/23/13 05:18
69	17G14883.F	L13071052-05	17	1		07/23/13 05:18

Page: 2 Approved: 23-JUL-13

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP17 Dataset: 072213
Analyst1: ECL Analyst2: NA
Method: 8151 SOP: GCS04 Rev: 13

Maintenance Log ID: Syringe Filter Lot#:
Eluent ID#:
Workgroups: Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Internal STD: NA Surrogate STD: STD58573
CCV STD: STD58746 LCS STD: STD57613 STD57613

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
70	17G14883.R	L13071052-05	17	1		07/23/13 05:44
71	17G14884.F	L13071052-06	17	1		07/23/13 05:44
72	17G14884.R	L13071052-06	17	1		07/23/13 06:10
73	17G14885.F	L13071052-07	17	1		07/23/13 06:10
74	17G14885.R	L13071052-07	17	1		07/23/13 06:36
75	17G14886.F	WG438567-03 HERB CCV	1	1	STD58746	07/23/13 06:36
76	17G14886.R	WG438567-03 HERB CCV	1	1	STD58746	07/23/13 07:02

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	WG438 HERB CCV: Several analytes failed high. Needs recalibrated.			
44	X	5	Over Calibration Range	2,4-D
	L13070977-01			
48				
	L13070982-04 MS: DCAA surrogate failed high.			
50				
	L13070982-05 MSD: DCAA surrogate failed high.			

Page: 3 Approved: 23-JUL-13

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP17 Dataset: 082913
Analyst1: ECL Analyst2: NA
Method: 8151 SOP: GCS04 Rev: 13
Method: OVAP SOP: GCS04 Rev: 0

Maintenance Log ID: Syringe Filter Lot#:
Eluent ID#:

Workgroups: Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Internal STD: NA Surrogate STD: STD59462 Calibration STD
CCV STD: STD58746 LCS STD: STD57613 MS/MSD STD: STD57613

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	17G15116.F	WG443142-01 HERB CCV	1	1	STD58746	08/29/13 11:53
2	17G15116.R	WG443142-01 HERB CCV	1	1	STD58746	08/29/13 12:19
3	17G15117.F	WG442712-01 BLANK	17	1		08/29/13 15:24
4	17G15117.R	WG442712-01 BLANK	17	1		08/29/13 15:50
5	17G15118.F	WG442712-02 LCS	17	1		08/29/13 15:50
6	17G15118.R	WG442712-02 LCS	17	1		08/29/13 16:16
7	17G15119.F	WG442712-03 LCS DUP	17	1		08/29/13 16:16
8	17G15119.R	WG442712-03 LCS DUP	17	1		08/29/13 16:42
9	17G15120.F	L13081126-01	17	1		08/29/13 16:42
10	17G15120.R	L13081126-01	17	1		08/29/13 17:08
11	17G15121.F	L13081126-02	17	1		08/29/13 17:08
12	17G15121.R	L13081126-02	17	1		08/29/13 17:34
13	17G15122.F	L13081173-01	17	1		08/29/13 17:34
14	17G15122.R	L13081173-01	17	1		08/29/13 18:00
15	17G15123.F	WG442712-05 L13081173-01 MS	17	1		08/29/13 18:00
16	17G15123.R	WG442712-05 L13081173-01 MS	17	1		08/29/13 18:26
17	17G15124.F	L13081250-01	17	1		08/29/13 18:26
18	17G15124.R	L13081250-01	17	1		08/29/13 18:52
19	17G15125.F	L13081250-02	17	1		08/29/13 18:52
20	17G15125.R	L13081250-02	17	1		08/29/13 19:18
21	17G15126.F	WG442621-01 FBLANK	17	1		08/29/13 19:18
22	17G15126.R	WG442621-01 FBLANK	17	1		08/29/13 19:43
23	17G15127.F	WG443142-02 HERB CCV	1	1	STD58746	08/29/13 19:43
24	17G15127.R	WG443142-02 HERB CCV	1	1	STD58746	08/29/13 20:09

Comments

Seq.	Rerun	Dil.	Reason	Analytes
5				
	WG442712-02 LCS: Silvex failed low by DoD limits only.			
7				
	WG442712-03 LCS DUP: Silvex failed low by DoD limits only.			
9				
	L13081126-01: Needs re-extracted due to LCS failure.			

Page: 1 Approved: 30-AUG-13

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP17 Dataset: 082913

Analyst1: ECL Analyst2: NA

Method: 8151 SOP: GCS04 Rev: 13

Method: OVAP SOP: GCS04 Rev: 0

Maintenance Log ID: Syringe Filter Lot#:

Eluent ID#:

Workgroups: Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Internal STD: NA Surrogate STD: STD59462

CCV STD: STD58746 LCS STD: STD57613 STD57613

Comments

Seq.	Rerun	Dil.	Reason	Analytes
11				
	L13081126-02: Needs re-extracted due to LCS failure.			

Page: 2 Approved: 30-AUG-13

Microbac Laboratories Inc.

Data Checklist

Date: 22-JUL-2013
Analyst: ECL
Analyst: NA
Method: 8151
Instrument: HP17
Curve Workgroup: NA
Runlog ID: 54597
Analytical Workgroups: L13070999, 07-1000, 07-572, 07-977, 07-982, 07-1052

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	JBK

Primary Reviewer:
23-JUL-2013

Secondary Reviewer:
23-JUL-2013

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-23-2013 17:54:10

Microbac Laboratories Inc.

Data Checklist

Date: 29-AUG-2013
Analyst: ECL
Analyst: NA
Method: 8151
Instrument: HP17
Curve Workgroup: NA
Runlog ID: 55381
Analytical Workgroups: 08-1126, 08-1173, 08-1250

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
30-AUG-2013

Secondary Reviewer:
30-AUG-2013

CHECKLIST1 - Modified 03/05/2008
Generated: AUG-30-2013 09:46:47

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8151A **AAB#:** WG443055

Login Number: L13081126

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
083SB-0022-0001-IDW	01	08/15/13	08/27/13	12			08/27/2013	12.1	7	*	08/29/13	2.2	40	
083SB-0021-0001-IDW	02	08/15/13	08/27/13	12			08/27/2013	12.1	7	*	08/29/13	2.3	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 3059813
Report generated 09/03/2013 08:34

Login Number: L13081126
Instrument Id: HP17
Workgroup (AAB#): WG443055

Method: 8151
CAL ID: HP17-22-JUL-13
Matrix: TCLP Leach

Sample Number	Dilution	Tag	1
L13081126-01	1.00	01	70.8
L13081126-02	1.00	01	103
WG442712-01	1.00	01	103
WG442712-02	1.00	01	78.9
WG442712-03	1.00	01	67.5

Surrogates	Surrogate Limits		
1 - 2,4-Dichlorophenylacetic acid	20	-	144

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 3059807
Report generated: 09/03/2013 08:34

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L13081126
Work Group: WG443055
Blank File ID: 17G15117.F
Blank Sample ID: WG442712-01
Prep Date: 08/27/13 11:00
Instrument ID: HP17
Analyzed Date: 08/29/13 15:24
Method: 8151A
Analyst: ECL

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG442712-02	17G15118.F	08/29/13 15:50	01
LCS2	WG442712-03	17G15119.F	08/29/13 16:16	01
083SB-0022-0001-IDW	L13081126-01	17G15120.F	08/29/13 16:42	01
083SB-0021-0001-IDW	L13081126-02	17G15121.F	08/29/13 17:08	01

Report Name: BLANK_SUMMARY
PDF File ID: 3059814
Report generated 09/03/2013 08:34

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L13081126 Prep Date: 08/27/13 11:00 Sample ID: WG442712-01
Instrument ID: HP17 Run Date: 08/29/13 15:24 Prep Method: METHOD
File ID: 17G15117.F Analyst: ECL Method: 8151A
Workgroup (AAB#): WG443055 Matrix: TCLP Leach Units: ug/L
Contract #: Cal ID: HP17-22-JUL-13

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
2,4-D	0.500	2.00	0.500	1	U
2,4,5-TP (Silvex)	0.0500	0.200	0.0500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4-Dichlorophenylacetic acid	103	20 - 144	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 3059815
03-SEP-2013 08:34

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L13081126 Analyst: ECL Prep Method: METHOD
Instrument ID: HP17 Matrix: TCLP Leach Method: 8151A
Workgroup (AAB#): WG443055 Units: ug/L
QC Key: DOD4 Lot #: STD57613

Sample ID: WG442712-02 LCS File ID: 17G15118.F Run Date: 08/29/2013 15:50
Sample ID: WG442712-03 LCS2 File ID: 17G15119.F Run Date: 08/29/2013 16:16

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2,4-D	5.00	2.42	48.5	5.00	2.12	42.3	13.5	35 - 115	30	
2,4,5-TP (Silvex)	0.500	0.223	44.6	0.500	0.194	38.9	13.7	50 - 115	30	*

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4-Dichlorophenylacetic acid	78.9	67.5	20 - 144	PASS

* EXCEEDS %REC LIMIT
# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 3059806
Report generated: 09/03/2013 08:34

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L13081126 **Instrument ID:** HP17

Analytical Method: 8151A **Initial Calibration Date:** 22-JUL-13 17:11

ICAL Workgroup: WG438566 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
2,4-D		1002000	8.27		
Silvex		5419000	5.93		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 3059816
Report generated 09/03/2013 08:34

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L13081126
Analytical Method: 8151A
Instrument ID: HP17
Initial Calibration Date: 22-JUL-13 17:11
Column ID: F

Analyte	WG438566-01			WG438566-02			WG438566-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4-D	2000	1803983160	902000	1000	949490894	949500	500	501640027	1003000
Silvex	200	988522012	4943000	100	529894556	5299000	50.0	276930932	5539000

INT_CAL - Modified 03/06/2008
PDF File ID: 3059816
Report generated 09/03/2013 08:34

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L13081126
Analytical Method: 8151A

Instrument ID: HP17
Initial Calibration Date: 22-JUL-13 17:11
Column ID: F

Analyte	WG438566-04			WG438566-05		
	CONC	RESP	RF	CONC	RESP	RF
2,4-D	250	259003232	1036000	100	111830926	1118000
Silvex	25.0	137780871	5511000	10.0	58050473.0	5805000

INT_CAL - Modified 03/06/2008
PDF File ID: 3059816
Report generated 09/03/2013 08:34

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L13081126 Run Date: 07/22/2013 Sample ID: WG438566-06
Instrument ID: HP17 Run Time: 17:11 Method: 8151A
File ID: 17G14855.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG438566 Cal ID: HP17 - 22-JUL-13

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4-D		500	528	ug/L	1060000	5.50	20	
2,4,5-TP (Silvex)		50.0	49.4	ug/L	5350000	1.20	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 3059817
Report generated 09/03/2013 08:34

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L13081126 Run Date: 08/29/2013 Sample ID: WG443142-01

Instrument ID: HP17 Run Time: 11:53 Method: 8151A

File ID: 17G15116.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG443055 Cal ID: HP17 - 22-JUL-13

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4-D		500	499	ug/L	1000000	0.159	20	
2,4,5-TP (Silvex)		50.0	52.0	ug/L	5630000	3.92	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 3059818

Report generated 09/03/2013 08:34

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L13081126 Run Date: 08/29/2013 Sample ID: WG443142-02

Instrument ID: HP17 Run Time: 19:43 Method: 8151A

File ID: 17G15127.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG443055 Cal ID: HP17 - 22-JUL-13

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4-D		500	469	ug/L	940000	6.16	20	
2,4,5-TP (Silvex)		50.0	48.4	ug/L	5250000	3.15	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 3059818

Report generated 09/03/2013 08:34

Primary/Confirmation Relative Percent Difference

Microbac Laboratories Inc.

Login #:	L13081126	**Prep Method:**	METHOD	**Samplenum:**	L13081126-01
Instrument:	HP17	**Prep Date:**	08/27/2013 11:00	**File ID:**	17G15120.F
Analyst:	ECL	**Anal Method:**	8151A	**Matrix:**	WATER
Worknum:	WG443055	**Analysis Date:**	08/29/2013 16:42	**Units:**	ug/L
File ID #2:	17G15120.R	**Analysis Date #2:**	08/29/2013 17:08		

Analyte	Column #1	Column #2	%RPD	Q
2,4-D	ND	ND		
2,4,5-TP (Silvex)	ND	ND		

Report ID: 3059805

Generated at Sep 4, 2013 15:35

Primary/Confirmation Relative Percent Difference

Microbac Laboratories Inc.

Login #:	L13081126	**Prep Method:**	METHOD	**Samplenum:**	L13081126-02
Instrument:	HP17	**Prep Date:**	08/27/2013 11:00	**File ID:**	17G15121.F
Analyst:	ECL	**Anal Method:**	8151A	**Matrix:**	WATER
Worknum:	WG443055	**Analysis Date:**	08/29/2013 17:08	**Units:**	ug/L
File ID #2:	17G15121.R	**Analysis Date #2:**	08/29/2013 17:34		

Analyte	Column #1	Column #2	%RPD	Q
2,4-D	ND	ND		
2,4,5-TP (Silvex)	ND	ND		

Report ID: 3059805

Generated at Sep 4, 2013 15:35

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15120.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 16:42 (#1); 29 Aug 2013 17:08 (#2)
Operator : ECL
Sample : L13081126-01
Misc : 17,1 WATER
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:53 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.40	11.46	283.7E6	202.3E6	353.897	354.637
	Spiked Amount 500.000			Recovery =		70.78%	70.93%
	Target Compounds						
1)	Dalapon	0.00	0.00	0	0	N.D.	N.D.
3)	MCPA	0.00	0.00	0	0	N.D.	N.D.
4)	Dicamba	0.00	0.00	0	0	N.D.	N.D.
5)	MCPP	0.00	0.00	0	0	N.D.	N.D.
6)	Dichloroprop	0.00	12.31	0	36999336	N.D.	55.383 #
7)	2,4-D	0.00	0.00	0	0	N.D.	N.D.
8)	Pentachlorophenol	0.00	0.00	0	0	N.D.	N.D.
9)	Silvex	0.00	0.00	0	0	N.D.	N.D.
10)	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
11)	Dinoseb	0.00	14.29	0	17314868	N.D.	9.009 #
12)	2,4-DB	0.00	0.00	0	0	N.D.	N.D.

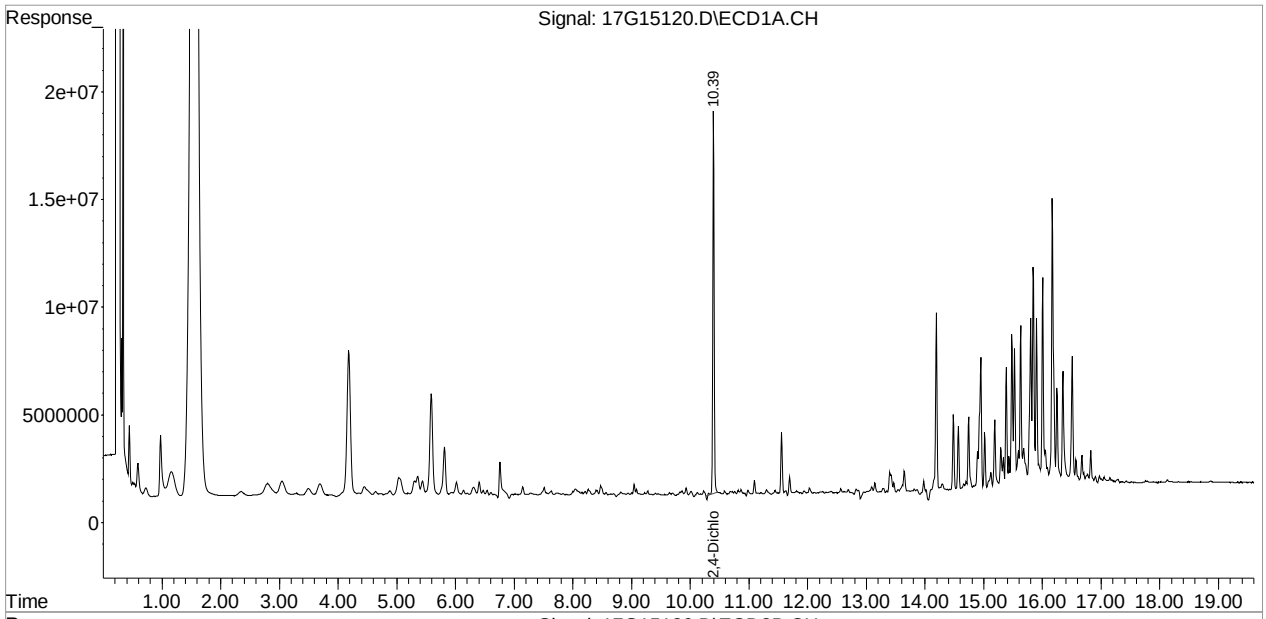
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

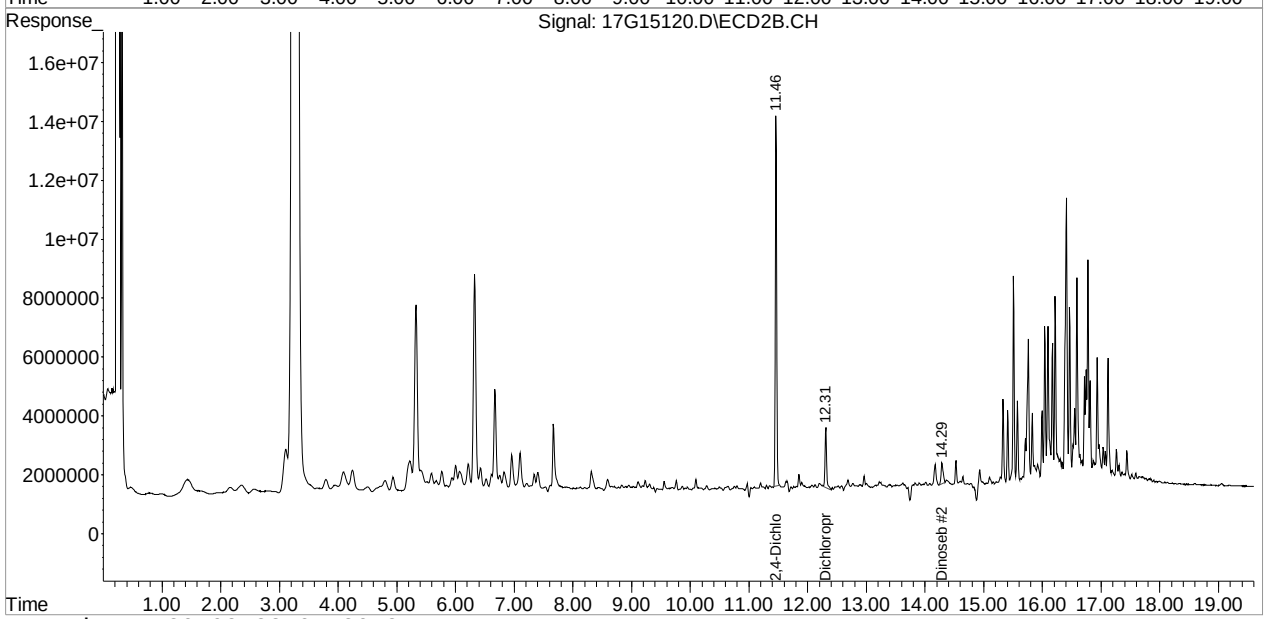
Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15120.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 16:42 (#1); 29 Aug 2013 17:08 (#2)
Operator : ECL
Sample : L13081126-01
Misc : 17,1 WATER
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:53 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15121.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 17:08 (#1); 29 Aug 2013 17:34 (#2)
Operator : ECL
Sample : L13081126-02
Misc : 17,1 WATER
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:59 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

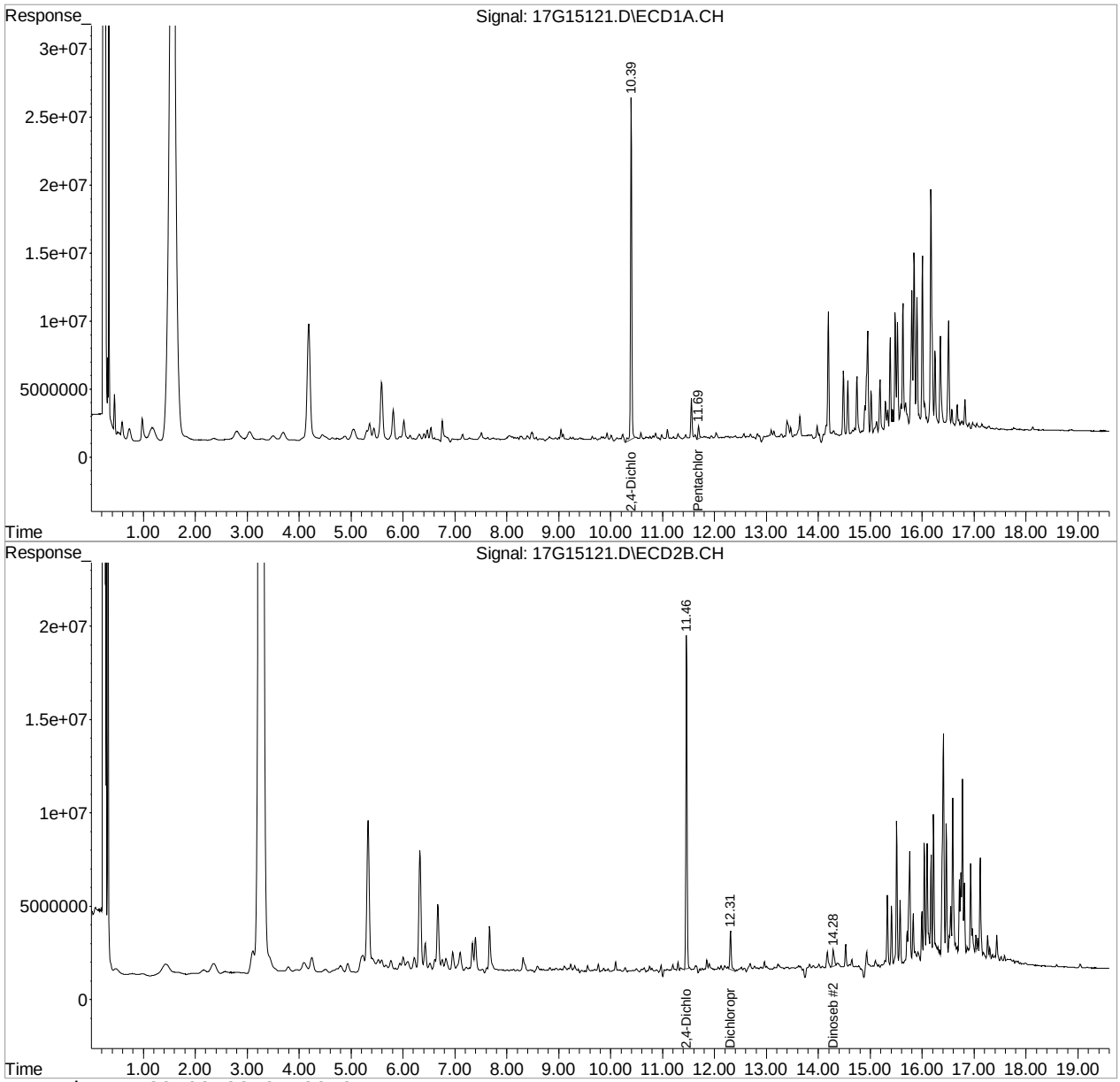
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.39	11.46	412.1E6	284.6E6	514.184	498.848	
	Spiked Amount 500.000			Recovery	=	102.84%	99.77%	
	Target Compounds							
1)	Dalapon	0.00	0.00	0	0	N.D.	N.D.	
3)	MCPA	0.00	0.00	0	0	N.D.	N.D.	
4)	Dicamba	0.00	0.00	0	0	N.D.	N.D.	
5)	MCPP	0.00	0.00	0	0	N.D.	N.D.	
6)	Dichloroprop	0.00	12.31	0	38386426	N.D.	57.460	#
7)	2,4-D	0.00	0.00	0	0	N.D.	N.D.	
8)	Pentachloropheno	11.69	0.00	15657488	0	1.201	N.D.	#
9)	Silvex	0.00	0.00	0	0	N.D.	N.D.	
10)	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
11)	Dinoseb	0.00	14.28	0	20451584	N.D.	10.641	#
12)	2,4-DB	0.00	0.00	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15121.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 17:08 (#1); 29 Aug 2013 17:34 (#2)
Operator : ECL
Sample : L13081126-02
Misc : 17,1 WATER
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:59 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



2.1.1.4 Standards Data

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14850.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 15:01 (#1); 22 Jul 2013 15:27 (#2)
Operator : ECL
Sample : WG438566-01 HERB ICAL #5
Misc : 1,1 STD58746
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:08 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Mon Jul 22 16:27:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

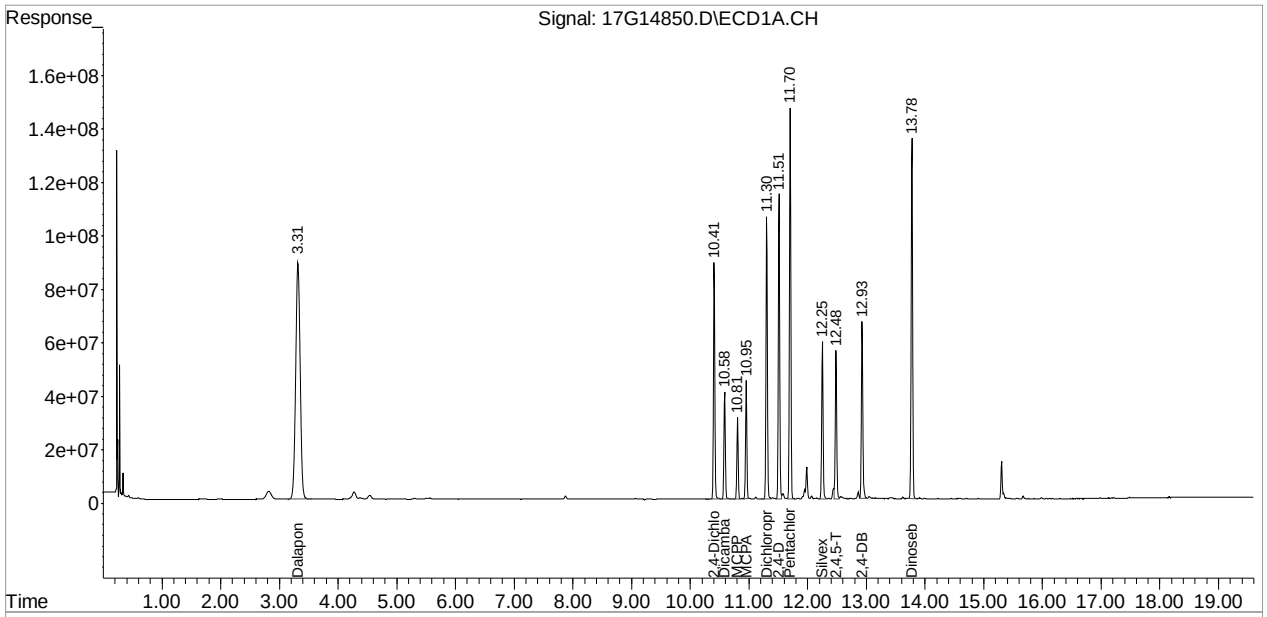
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.41	11.47	1423.6E6	997.2E6	1788.954	1767.858
	Spiked Amount 500.000			Recovery	=	357.79%	353.57%
	Target Compounds						
1)	Dalapon	3.31	4.52	4696.9E6	3453.5E6	4497.025	4512.607
3)	MCPA	10.95	11.99	681.7E6	421.3E6	183.565	180.139
4)	Dicamba	10.58	11.65	659.4E6	478.7E6	202.960	198.521
5)	MCPP	10.81	11.77	470.7E6	276.5E6	195.492	194.141
6)	Dichloroprop	11.30	12.31	1712.2E6	1191.0E6	2062.633	2032.565
7)	2,4-D	11.51	12.59	1804.0E6	1297.1E6	1817.419	1806.095
8)	Pentachlorophenol	11.70	12.97	2419.5E6	1634.2E6	191.127	173.866
9)	Silvex	12.25	13.30	988.5E6	685.9E6	205.829	199.910
10)	2,4,5-T	12.48	13.62	944.9E6	641.5E6	214.722	207.414
11)	Dinoseb	13.78	14.28	2311.8E6	1702.0E6	877.398	881.810
12)	2,4-DB	12.93	14.03	1116.4E6	726.6E6	1876.223	1833.232

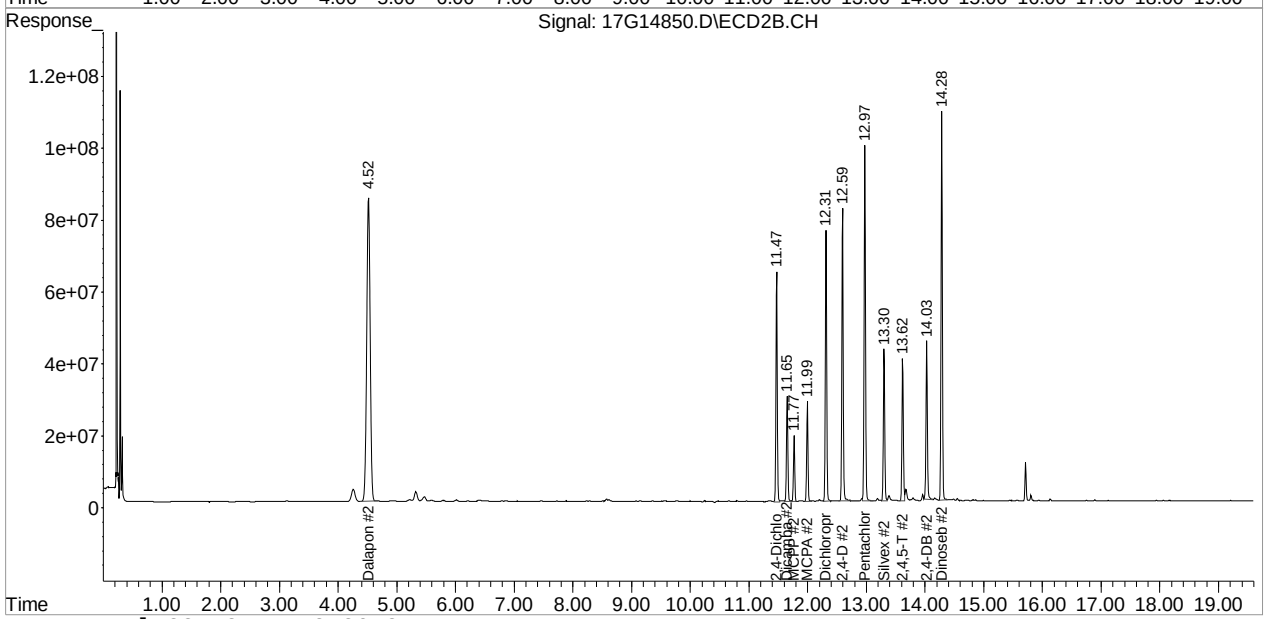
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14850.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 15:01 (#1); 22 Jul 2013 15:27 (#2)
Operator : ECL
Sample : WG438566-01 HERB ICAL #5
Misc : 1,1 STD58746
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:08 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Mon Jul 22 16:27:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14851.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 15:27 (#1); 22 Jul 2013 15:53 (#2)
Operator : ECL
Sample : WG438566-02 HERB ICAL #4
Misc : 1,1 STD58746
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:20 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:13:17 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

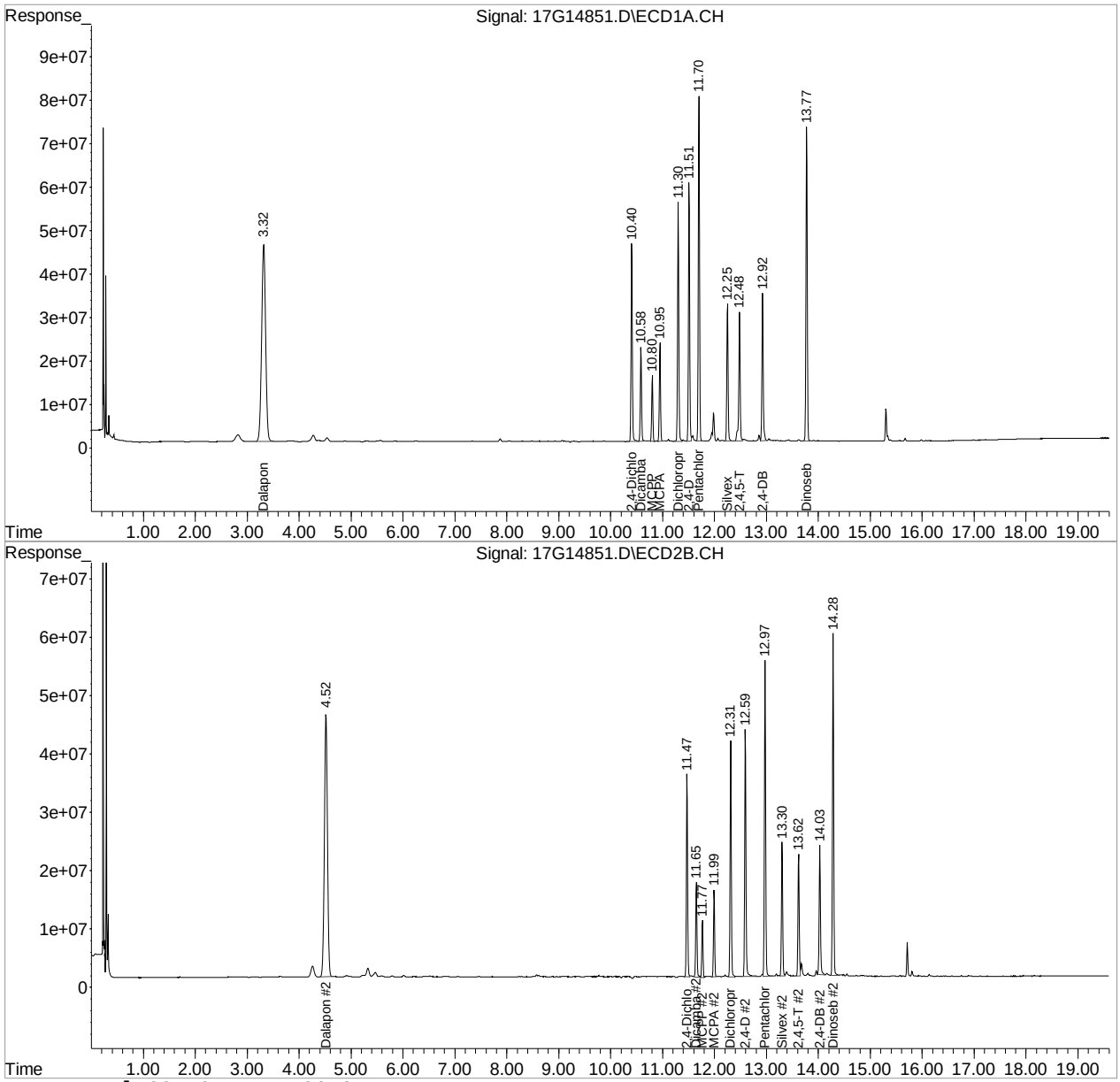
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.40	11.47	749.3E6	550.5E6	941.698	973.775
	Spiked Amount 500.000			Recovery =		188.34%	194.76%
	Target Compounds						
1)	Dalapon	3.32	4.52	2401.1E6	1838.4E6	2298.581	2402.058
3)	MCPA	10.95	11.99	350.3E6	224.7E6	94.429	95.885
4)	Dicamba	10.58	11.65	350.6E6	272.2E6	107.841	112.448
5)	MCPP	10.80	11.77	232.8E6	148.0E6	96.676	103.903
6)	Dichloroprop	11.30	12.31	902.3E6	643.4E6	1085.880	1098.026
7)	2,4-D	11.51	12.59	949.5E6	698.7E6	955.947	972.384
8)	Pentachloropheno	11.70	12.97	1295.4E6	904.5E6	102.270	96.220
9)	Silvex	12.25	13.30	529.9E6	374.0E6	110.242	108.942
10)	2,4,5-T	12.48	13.62	545.1E6	345.0E6	123.346	110.906
11)	Dinoseb	13.77	14.28	1244.2E6	932.2E6	472.188	483.009
12)	2,4-DB	12.92	14.03	580.9E6	383.8E6	976.321	968.396

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14851.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 15:27 (#1); 22 Jul 2013 15:53 (#2)
Operator : ECL
Sample : WG438566-02 HERB ICAL #4
Misc : 1,1 STD58746
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:20 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:13:17 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14852.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 15:53 (#1); 22 Jul 2013 16:19 (#2)
Operator : ECL
Sample : WG438566-03 HERB ICAL #3
Misc : 1,1 STD58746
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:35 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:13:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

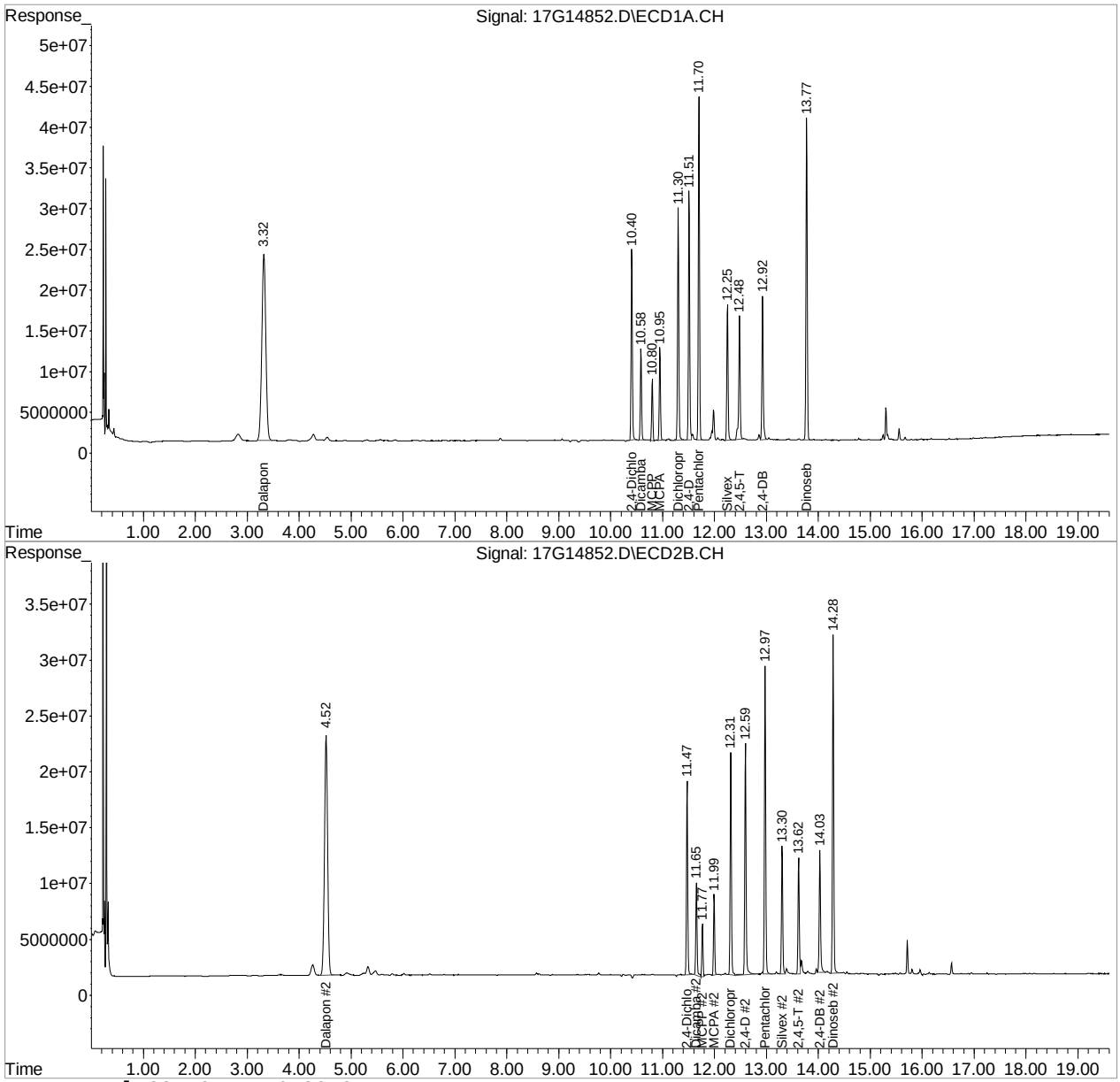
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.41	11.47	391.7E6	282.3E6	490.593	498.516
	Spiked Amount 500.000			Recovery =		98.12%	99.70%
	Target Compounds						
1)	Dalapon	3.32	4.52	1222.9E6	895.2E6	1170.492	1169.474
3)	MCPA	10.95	11.99	179.9E6	110.8E6	48.367	47.232
4)	Dicamba	10.58	11.65	182.6E6	139.2E6	56.093	57.270
5)	MCPP	10.80	11.77	116.4E6	71687283	48.326	50.315
6)	Dichloroprop	11.30	12.31	475.6E6	328.8E6	571.086	560.697
7)	2,4-D	11.51	12.59	501.6E6	365.9E6	504.565	508.456
8)	Pentachloropheno	11.70	12.97	672.8E6	463.2E6	53.083	49.256
9)	Silvex	12.25	13.30	276.9E6	189.2E6	57.529	55.091
10)	2,4,5-T	12.48	13.62	282.8E6	173.9E6	62.689	55.582
11)	Dinoseb	13.77	14.28	673.1E6	491.5E6	255.463	254.683
12)	2,4-DB	12.92	14.03	304.9E6	197.3E6	512.075	497.699

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14852.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 15:53 (#1); 22 Jul 2013 16:19 (#2)
Operator : ECL
Sample : WG438566-03 HERB ICAL #3
Misc : 1,1 STD58746
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:35 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:13:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14853.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 16:19 (#1); 22 Jul 2013 16:45 (#2)
Operator : ECL
Sample : WG438566-04 HERB ICAL #2
Misc : 1,1 STD58746
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:50 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:13:44 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

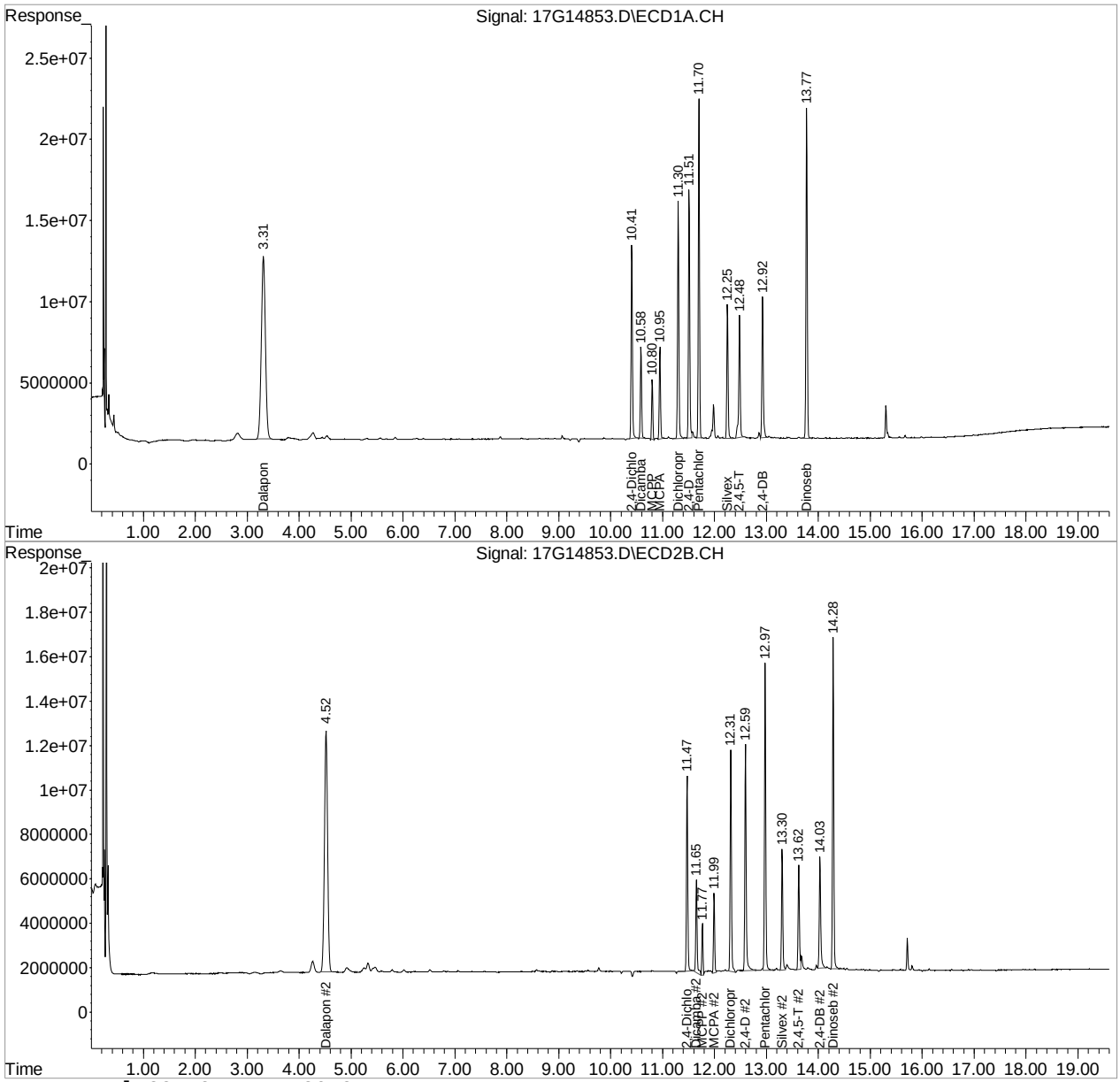
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.41	11.47	204.2E6	146.4E6	256.174	254.770
	Spiked Amount 500.000			Recovery =		51.23%	50.95%
	Target Compounds						
1)	Dalapon	3.31	4.52	613.3E6	458.8E6	601.106	608.606
3)	MCPA	10.95	11.99	91315289	55892945	24.674	23.842
4)	Dicamba	10.58	11.65	92774396	75551354	27.620	29.553
5)	MCPP	10.80	11.77	55852097	34093053	23.475	23.875
6)	Dichloroprop	11.30	12.31	249.8E6	171.3E6	286.144	276.805
7)	2,4-D	11.51	12.59	259.0E6	184.0E6	259.255	251.637
8)	Pentachloropheno	11.70	12.97	328.2E6	234.5E6	25.743	25.061
9)	Silvex	12.25	13.30	137.8E6	92331981	27.614	25.967
10)	2,4,5-T	12.48	13.62	143.5E6	82721101	29.854	25.380
11)	Dinoseb	13.77	14.28	352.3E6	248.4E6	133.741	126.706
12)	2,4-DB	12.92	14.03	155.9E6	97630739	260.984	243.695

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14853.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 16:19 (#1); 22 Jul 2013 16:45 (#2)
Operator : ECL
Sample : WG438566-04 HERB ICAL #2
Misc : 1,1 STD58746
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:13:50 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:13:44 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14854.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 16:45 (#1); 22 Jul 2013 17:11 (#2)
Operator : ECL
Sample : WG438566-05 HERB ICAL #1
Misc : 1,1 STD58746
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:17:02 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:14:46 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

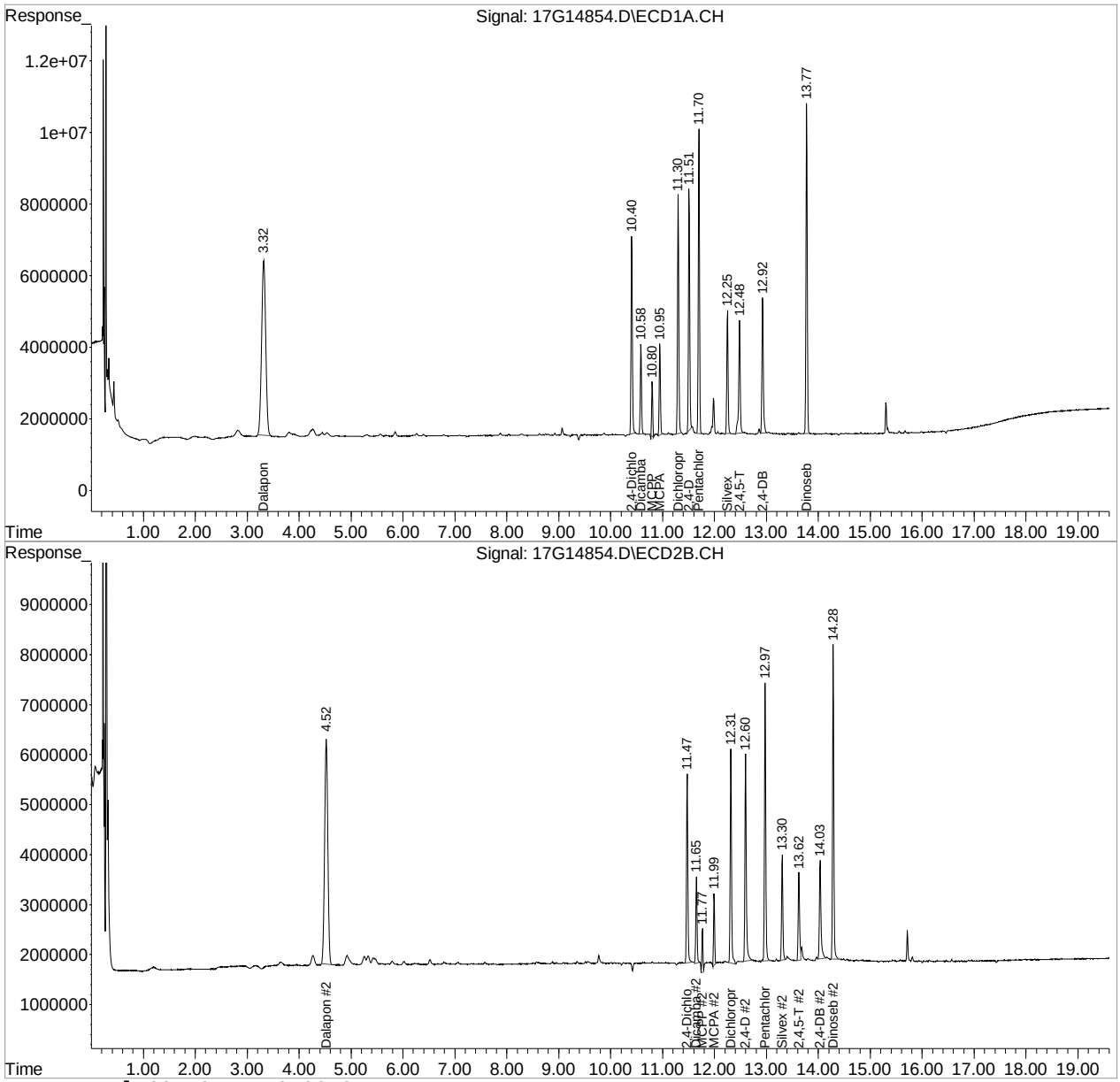
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.40	11.47	94632302	65349966	118.068	114.544
	Spiked Amount 500.000			Recovery =		23.61%	22.91%
	Target Compounds						
1)	Dalapon	3.32	4.52	267.5E6	192.7E6	271.302	264.129
3)	MCPA	10.95	11.99	41003086	21150838	11.226	9.684
4)	Dicamba	10.58	11.65	40837475	28227606	11.188	9.730m
5)	MCPP	10.80	11.77	21752179	12111788	9.525	8.813
6)	Dichloroprop	11.30	12.31	114.3E6	75889274	117.775	113.572
7)	2,4-D	11.51	12.60	111.8E6	77750409	111.628	106.279
8)	Pentachloropheno	11.70	12.97	135.5E6	95719228	10.392	10.534
9)	Silvex	12.25	13.30	58050473	36031457	10.712	9.851
10)	2,4,5-T	12.48	13.62	62093842	32774585	11.176	9.787
11)	Dinoseb	13.77	14.28	157.0E6	104.5E6	58.365	54.477
12)	2,4-DB	12.93	14.03	69963956	41337811	113.875	106.865

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14854.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 16:45 (#1); 22 Jul 2013 17:11 (#2)
Operator : ECL
Sample : WG438566-05 HERB ICAL #1
Misc : 1,1 STD58746
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:17:02 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:14:46 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

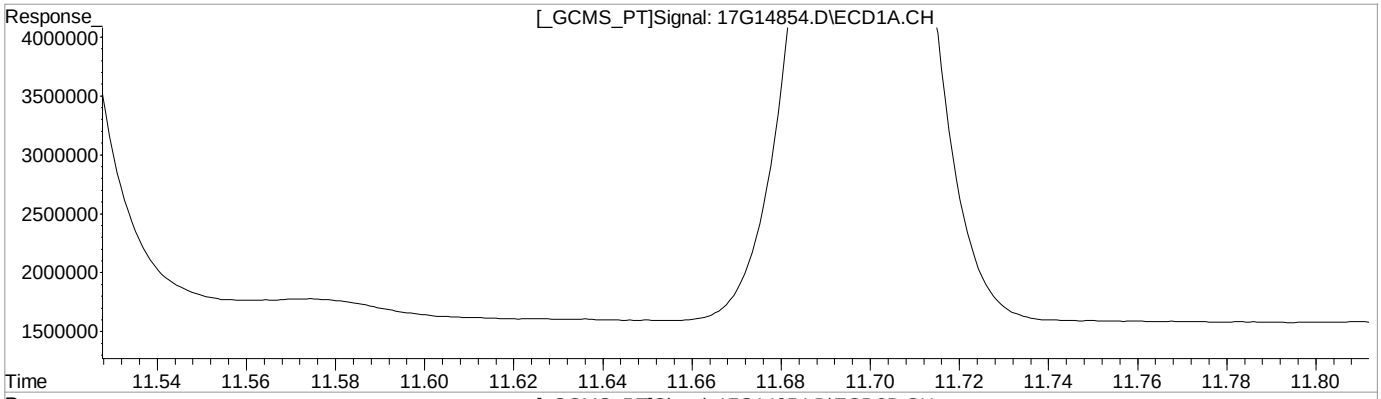


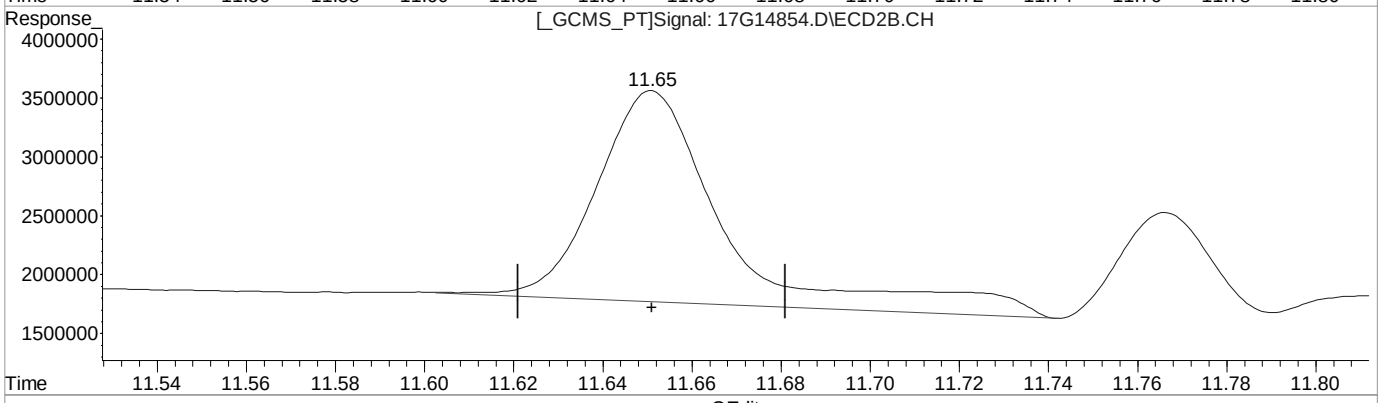
Quantitation Report (Qedit)

Data Path : D:\msdchem\1\DATA\072213\
Data File : 17G14854.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 22 Jul 2013 16:45 (#1); 22 Jul 2013 17:11 (#2)
Operator : ECL
Sample   : WG438566-05 HERB ICAL #1
Misc   : 1,1 STD58746
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:16:39 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:14:46 2013
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(4) Dicamba

10.58min 11.188ug/L

response 40837475

(4) Dicamba #2

11.65min 12.354ug/L

response 35837692

(+) = Expected Retention Time

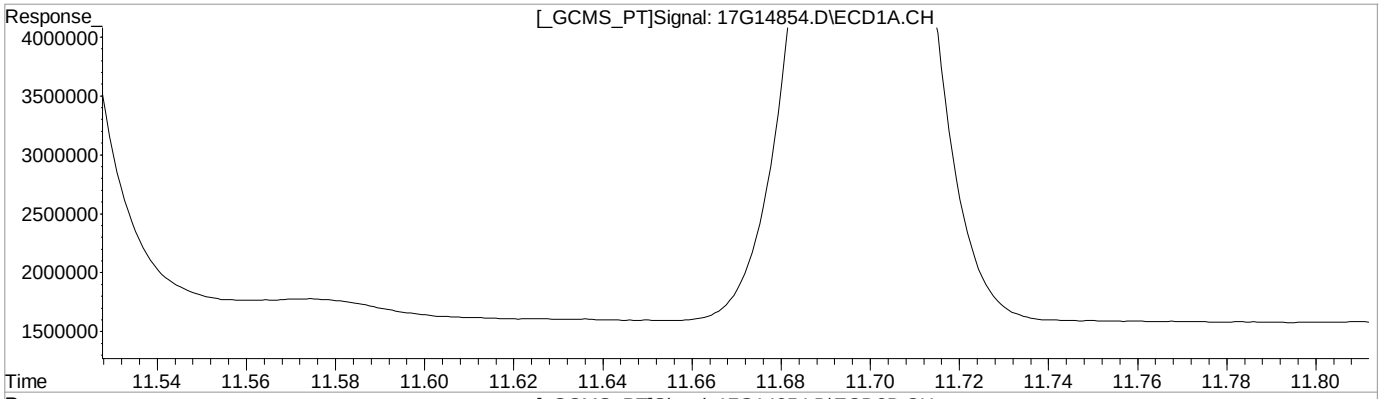
8151.M Tue Jul 23 12:17:00 2013 Page: 1

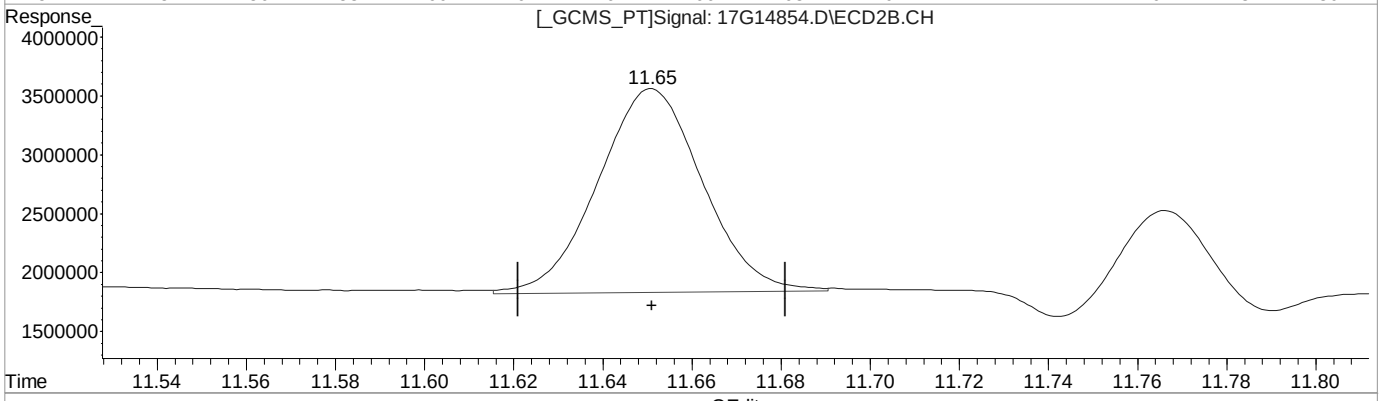
Quantitation Report (Qedit)

Data Path : D:\msdchem\1\DATA\072213\
Data File : 17G14854.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 22 Jul 2013 16:45 (#1); 22 Jul 2013 17:11 (#2)
Operator : ECL
Sample   : WG438566-05 HERB ICAL #1
Misc   : 1,1 STD58746
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:16:39 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:14:46 2013
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(4) Dicamba

10.58min 11.188ug/L

response 40837475

(4) Dicamba #2

11.65min 9.730ug/L mint

response 28227606

(+) = Expected Retention Time
8151.M Tue Jul 23 12:17:05 2013

Analyst: 07/23/2013 17:39 Supervisor: 07/23/2013 17:53

#4 - System establishes incorrect baseline

Page: 1

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14855.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 17:11 (#1); 22 Jul 2013 17:37 (#2)
Operator : ECL
Sample : WG438566-06 HERB ALT STD
Misc : 1,1 STD58747
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:32:26 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:29:41 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

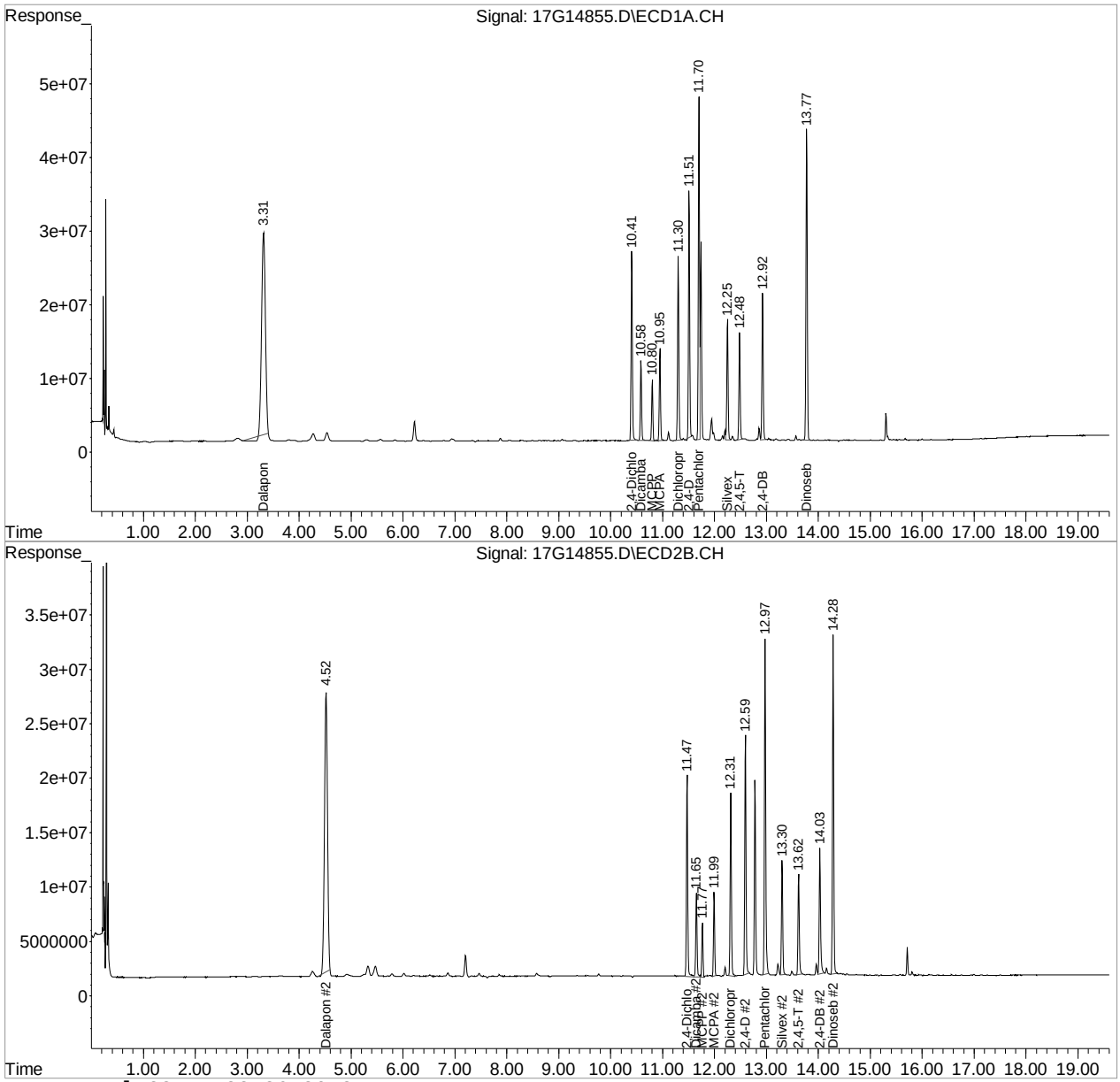
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.41	11.47	426.4E6	314.4E6	532.003	551.062
	Spiked Amount 500.000			Recovery	=	106.40%	110.21%
	Target Compounds						
1)	Dalapon	3.31	4.52	1406.9E6	1041.9E6	1427.048	1428.473
3)	MCPA	10.95	11.99	199.2E6	117.4E6	54.531	53.748
4)	Dicamba	10.58	11.65	174.1E6	130.9E6	47.689	47.608
5)	MCPP	10.80	11.77	131.2E6	75544388	57.469	54.969
6)	Dichloroprop	11.30	12.31	419.7E6	279.4E6	432.598	458.937
7)	2,4-D	11.51	12.59	528.5E6	362.8E6	527.522	504.942
8)	Pentachloropheno	11.70	12.97	737.8E6	521.0E6	56.592	57.337
9)	Silvex	12.25	13.30	267.7E6	173.3E6	49.393	47.489
10)	2,4,5-T	12.48	13.62	236.7E6	158.0E6	42.601	47.251
11)	Dinoseb	13.77	14.28	732.1E6	500.4E6	272.128	260.367
12)	2,4-DB	12.92	14.03	333.9E6	207.5E6	543.399	533.377

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\072213\
Data File : 17G14855.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Jul 2013 17:11 (#1); 22 Jul 2013 17:37 (#2)
Operator : ECL
Sample : WG438566-06 HERB ALT STD
Misc : 1,1 STD58747
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:32:26 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Tue Jul 23 12:29:41 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : D:\msdchem\1\DATA\082913\
Data File : 17G15116.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 11:53 (#1); 29 Aug 2013 12:19 (#2)
Operator : ECL
Sample : WG443142-01 HERB CCV
Misc : 1,1 STD58746
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 29 15:39:04 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

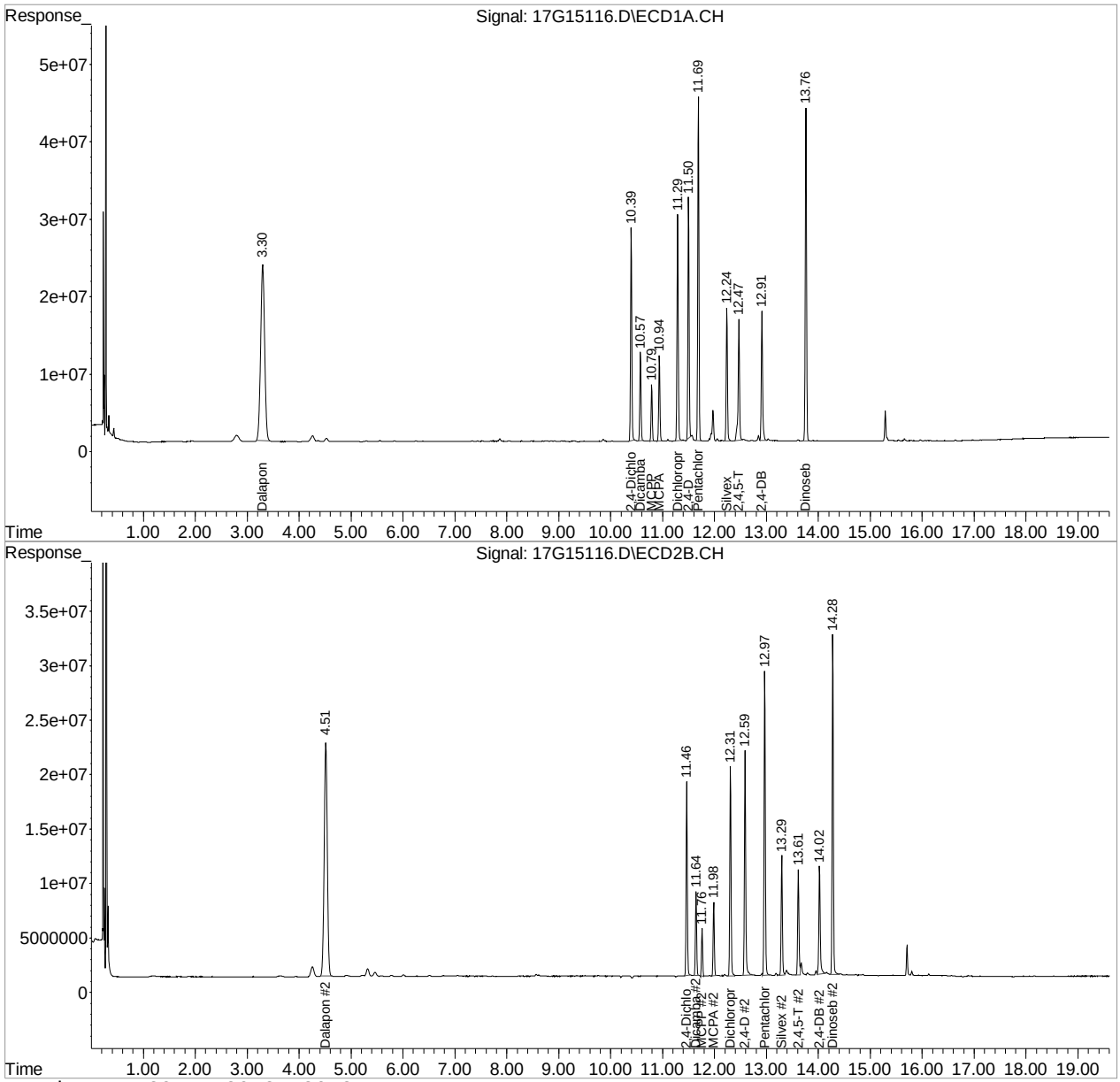
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.39	11.46	449.3E6	285.8E6	560.509	500.859
	Spiked Amount 500.000			Recovery =		112.10%	100.17%
	Target Compounds						
1)	Dalapon	3.30	4.51	1212.5E6	892.2E6	1229.902	1223.210
3)	MCPA	10.94	11.98	175.1E6	105.2E6	47.952	48.146
4)	Dicamba	10.57	11.64	186.8E6	123.7E6	51.179	45.020
5)	MCPP	10.79	11.76	112.9E6	64400100	49.420	46.860
6)	Dichloroprop	11.29	12.31	484.5E6	319.4E6	499.373	478.104
7)	2,4-D	11.50	12.59	500.1E6	354.6E6	499.207	493.575
8)	Pentachloropheno	11.69	12.97	696.9E6	463.8E6	53.452	51.042
9)	Silvex	12.24	13.29	281.6E6	181.0E6	51.960	49.595
10)	2,4,5-T	12.47	13.61	294.7E6	163.6E6	53.034	48.914
11)	Dinoseb	13.76	14.28	722.0E6	497.3E6	268.387	258.720
12)	2,4-DB	12.91	14.02	295.3E6	185.5E6	480.656	476.755

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\msdchem\1\DATA\082913\
Data File : 17G15116.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 11:53 (#1); 29 Aug 2013 12:19 (#2)
Operator : ECL
Sample : WG443142-01 HERB CCV
Misc : 1,1 STD58746
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 29 15:39:04 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : D:\msdchem\1\DATA\082913\
Data File : 17G15127.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 19:43 (#1); 29 Aug 2013 20:09 (#2)
Operator : ECL
Sample : WG443142-02 HERB CCV
Misc : 1,1 STD58746
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:29:32 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.40	11.46	418.5E6	296.6E6	522.081	519.817
	Spiked Amount 500.000			Recovery =		104.42%	103.96%
	Target Compounds						
1)	Dalapon	3.29	4.50	1120.5E6	898.8E6	1136.548	1232.207
3)	MCPA	10.94	11.98	162.5E6	109.0E6	44.491	49.889
4)	Dicamba	10.57	11.64	174.2E6	127.5E6	47.724	46.379
5)	MCPP	10.79	11.76	104.4E6	66858308	45.723	48.649
6)	Dichloroprop	11.29	12.30	451.5E6	330.3E6	465.331	494.468
7)	2,4-D	11.50	12.58	470.0E6	364.4E6	469.192	507.157
8)	Pentachloropheno	11.69	12.96	645.4E6	476.9E6	49.508	52.483
9)	Silvex	12.24	13.29	262.4E6	186.4E6	48.425	51.069
10)	2,4,5-T	12.47	13.61	279.9E6	170.7E6	50.378	51.045
11)	Dinoseb	13.76	14.27	669.6E6	510.1E6	248.889	265.382
12)	2,4-DB	12.91	14.02	277.0E6	194.8E6	450.799	500.585

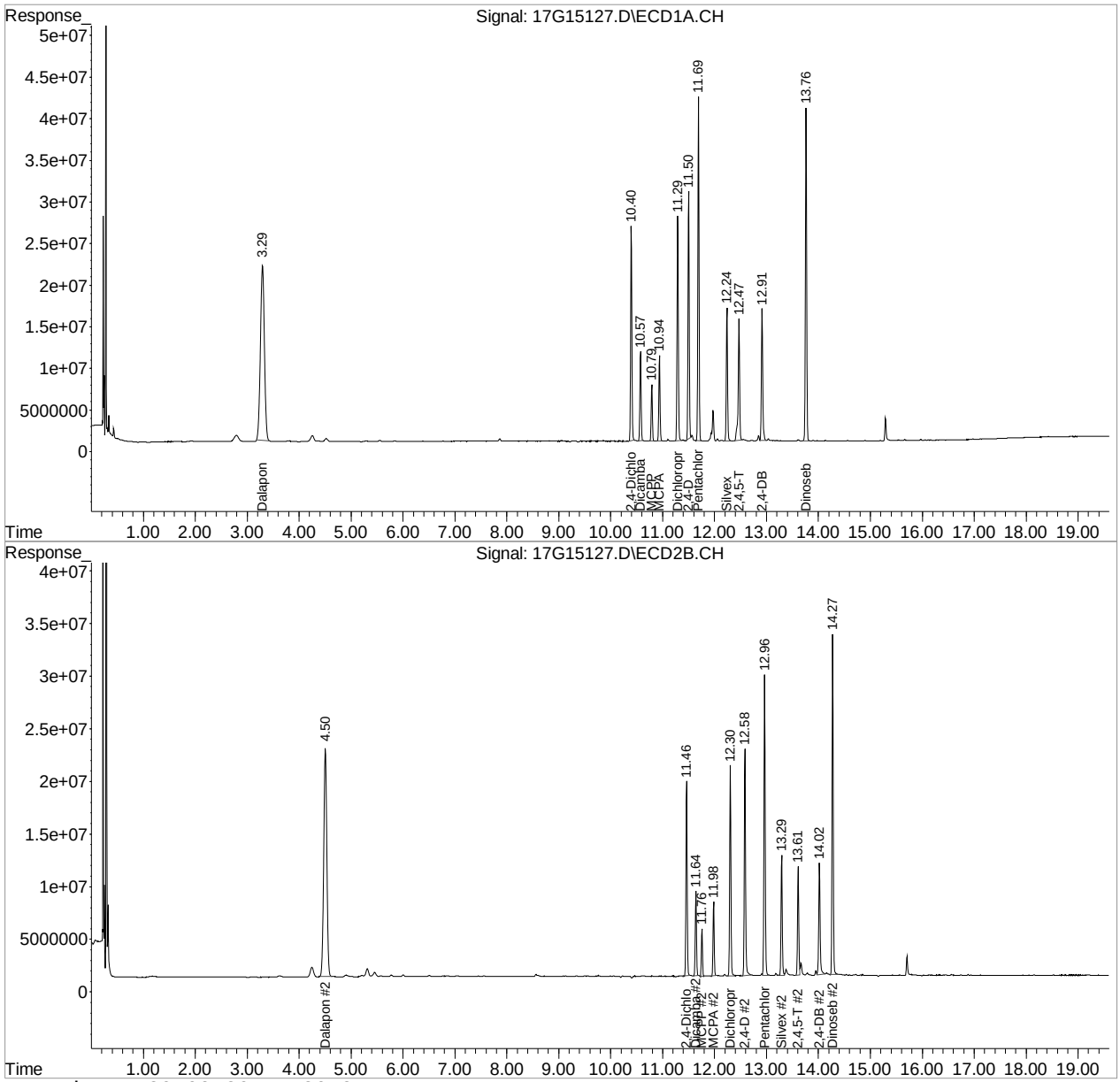
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : D:\msdchem\1\DATA\082913\
Data File : 17G15127.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 19:43 (#1); 29 Aug 2013 20:09 (#2)
Operator : ECL
Sample : WG443142-02 HERB CCV
Misc : 1,1 STD58746
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:29:32 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories, Inc.

Instrument ID: HP 17

GC Column: RTx-CLP (Front)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	11/27/11	11/28/11	11/29/11
File #	17G9922	17G9968	17G0007

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
Dalapon	4.18	4.18	4.17	0.017
Dicamba	11.61	11.60	11.60	0.017
MCPP	11.81	11.80	11.80	0.017
MCPA	11.96	11.95	11.95	0.017
Dichloroprop	12.31	12.31	12.30	0.017
2,4-D	12.52	12.52	12.51	0.017
Pentachlorophenol	12.75	12.74	12.74	0.017
Silvex	13.26	13.26	13.26	0.000
2,4,5-T	13.5	13.49	13.49	0.017
2,4-DB	13.94	13.93	13.93	0.017
Dinoseb	14.77	14.76	14.76	0.017
2,4-Dichlorophenol	11.42	11.42	11.42	0.000

RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories, Inc.

Instrument ID: HP 17
GC Column: RTx-CLP II (Rear)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	11/27/11	11/28/11	11/29/11
File #	17G9922	17G9968	17G0007

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
Dalapon	4.66	4.65	4.65	0.017
Dicamba	11.75	11.73	11.73	0.035
MCPP	11.86	11.84	11.84	0.035
MCPA	12.08	12.07	12.07	0.017
Dichloroprop	12.41	12.39	12.39	0.035
2,4-D	12.69	12.67	12.67	0.035
Pentachlorophenol	13.07	13.05	13.05	0.035
Silvex	13.39	13.38	13.38	0.017
2,4,5-T	13.71	13.69	13.69	0.035
2,4-DB	14.12	14.10	14.10	0.035
Dinoseb	14.37	14.36	14.36	0.017
2,4-Dichlorophenol	11.57	11.55	11.55	0.035

2.1.1.5 Raw QC Data

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15117.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 15:24 (#1); 29 Aug 2013 15:50 (#2)
Operator : ECL
Sample : WG442712-01 BLANK
Misc : 17,1 WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:29:54 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.40	11.46	411.6E6	298.9E6	513.473	523.906
	Spiked Amount 500.000			Recovery =		102.69%	104.78%
	Target Compounds						
1)	Dalapon	0.00	0.00	0	0	N.D.	N.D.
3)	MCPA	0.00	0.00	0	0	N.D.	N.D.
4)	Dicamba	0.00	0.00	0	0	N.D.	N.D.
5)	MCPP	0.00	0.00	0	0	N.D.	N.D.
6)	Dichloroprop	0.00	12.30	0	32045413	N.D.	47.968 #
7)	2,4-D	0.00	0.00	0	0	N.D.	N.D.
8)	Pentachlorophenol	0.00	0.00	0	0	N.D.	N.D.
9)	Silvex	0.00	0.00	0	0	N.D.	N.D.
10)	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
11)	Dinoseb	0.00	14.28	0	25577566	N.D.	13.308 #
12)	2,4-DB	0.00	14.01f	0	10528942	N.D.	27.058 #

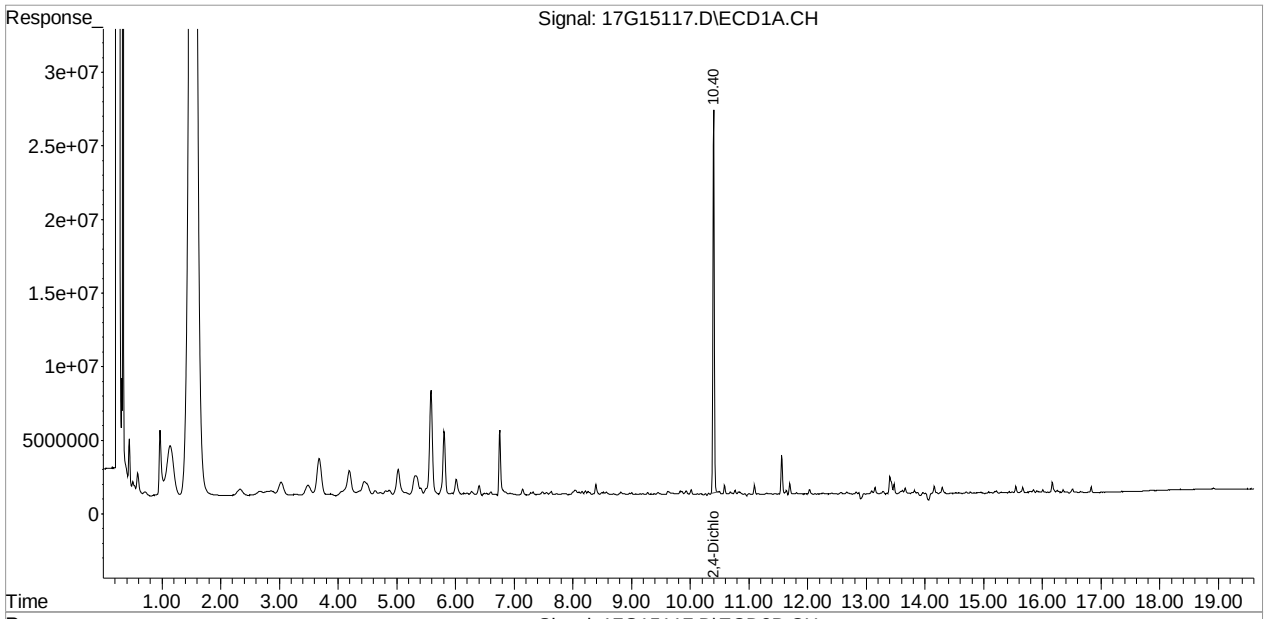
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

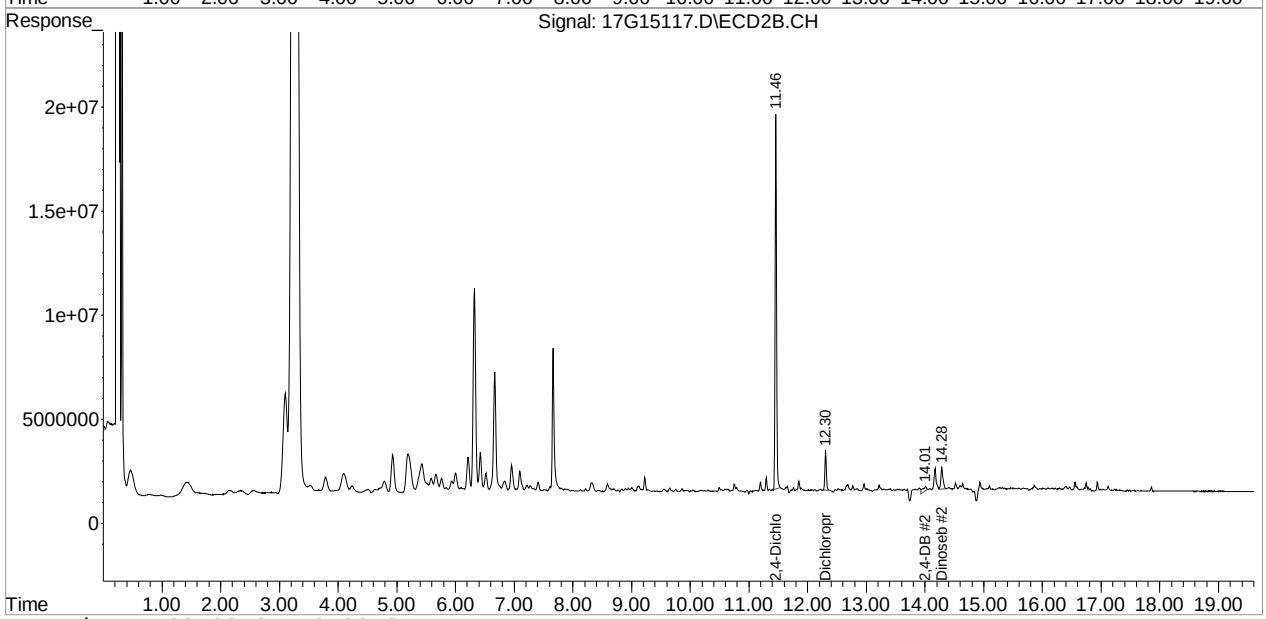
Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15117.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 15:24 (#1); 29 Aug 2013 15:50 (#2)
Operator : ECL
Sample : WG442712-01 BLANK
Misc : 17,1 WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:29:54 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15118.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 15:50 (#1); 29 Aug 2013 16:16 (#2)
Operator : ECL
Sample : WG442712-02 LCS
Misc : 17,1 WATER
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:19 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.40	11.46	316.3E6	253.0E6	394.659	443.422	
	Spiked Amount 500.000			Recovery =		78.93%	88.68%	
	Target Compounds							
1)	Dalapon	3.29	4.50	229.6E6	202.7E6	232.889	277.943	
3)	MCPA	10.94	11.98	82493608	55190012	22.586	25.269	
4)	Dicamba	10.57	11.64	121.1E6	62767636	33.164	22.835	
5)	MCPP	10.79	11.75	50140836	32231180	21.957	23.453	
6)	Dichloroprop	11.29	12.30	237.8E6	190.3E6	245.118	284.896	
7)	2,4-D	11.50	12.58	242.7E6	179.8E6	242.276	250.298	
8)	Pentachloropheno	11.69	12.96	297.6E6	234.4E6	22.829	25.796	
9)	Silvex	12.24	13.29	120.7E6	88431122	22.281	24.229	
10)	2,4,5-T	12.47	13.61	119.3E6	86258274	21.475	25.791	
11)	Dinoseb	13.76	14.27	351.0E6	287.5E6	130.488	149.564	
12)	2,4-DB	12.91	14.02	103.9E6	115.2E6	169.070	296.114	#

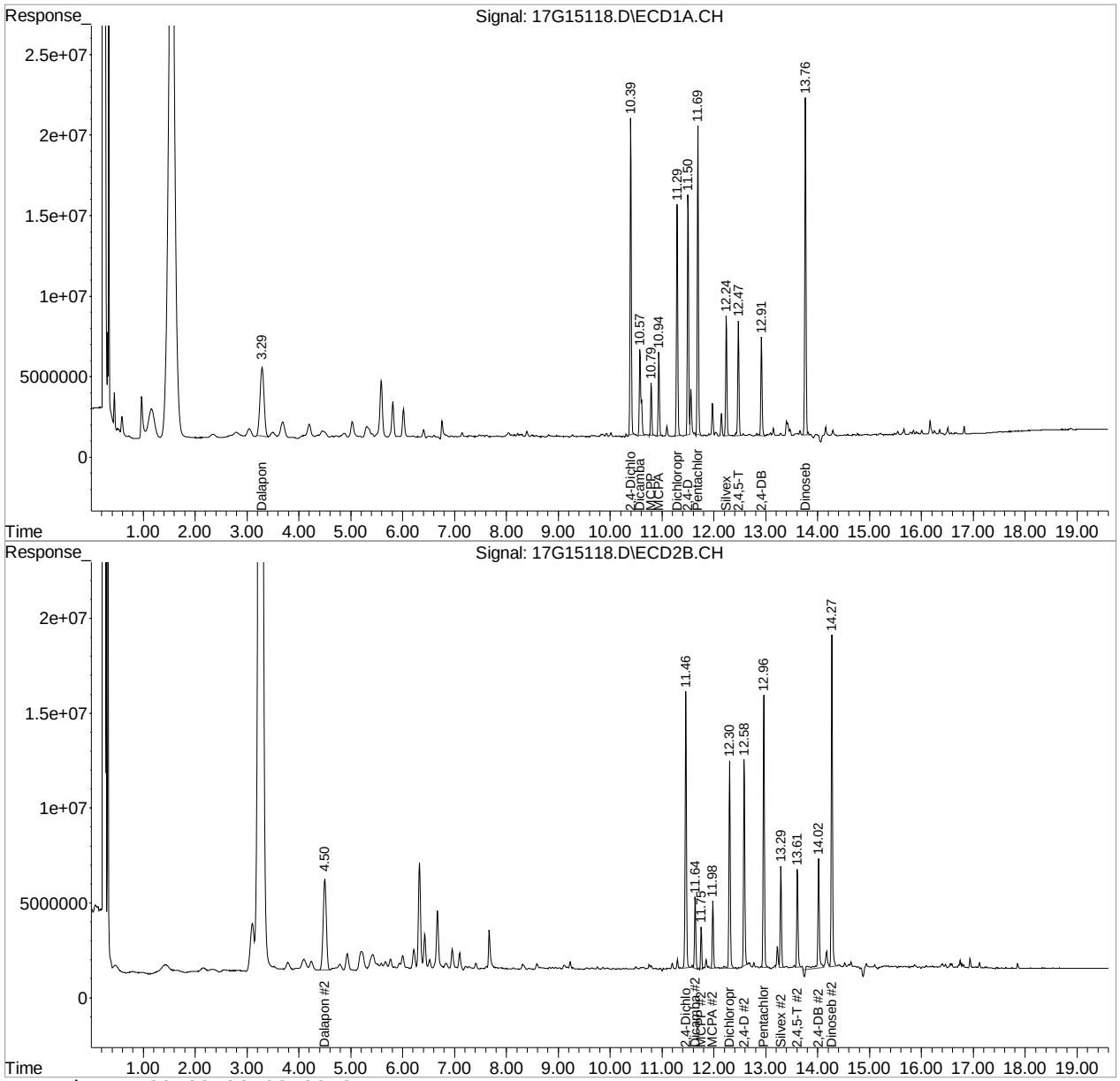
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15118.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 15:50 (#1); 29 Aug 2013 16:16 (#2)
Operator : ECL
Sample : WG442712-02 LCS
Misc : 17,1 WATER
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:19 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15119.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 16:16 (#1); 29 Aug 2013 16:42 (#2)
Operator : ECL
Sample : WG442712-03 LCS DUP
Misc : 17,1 WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:45 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

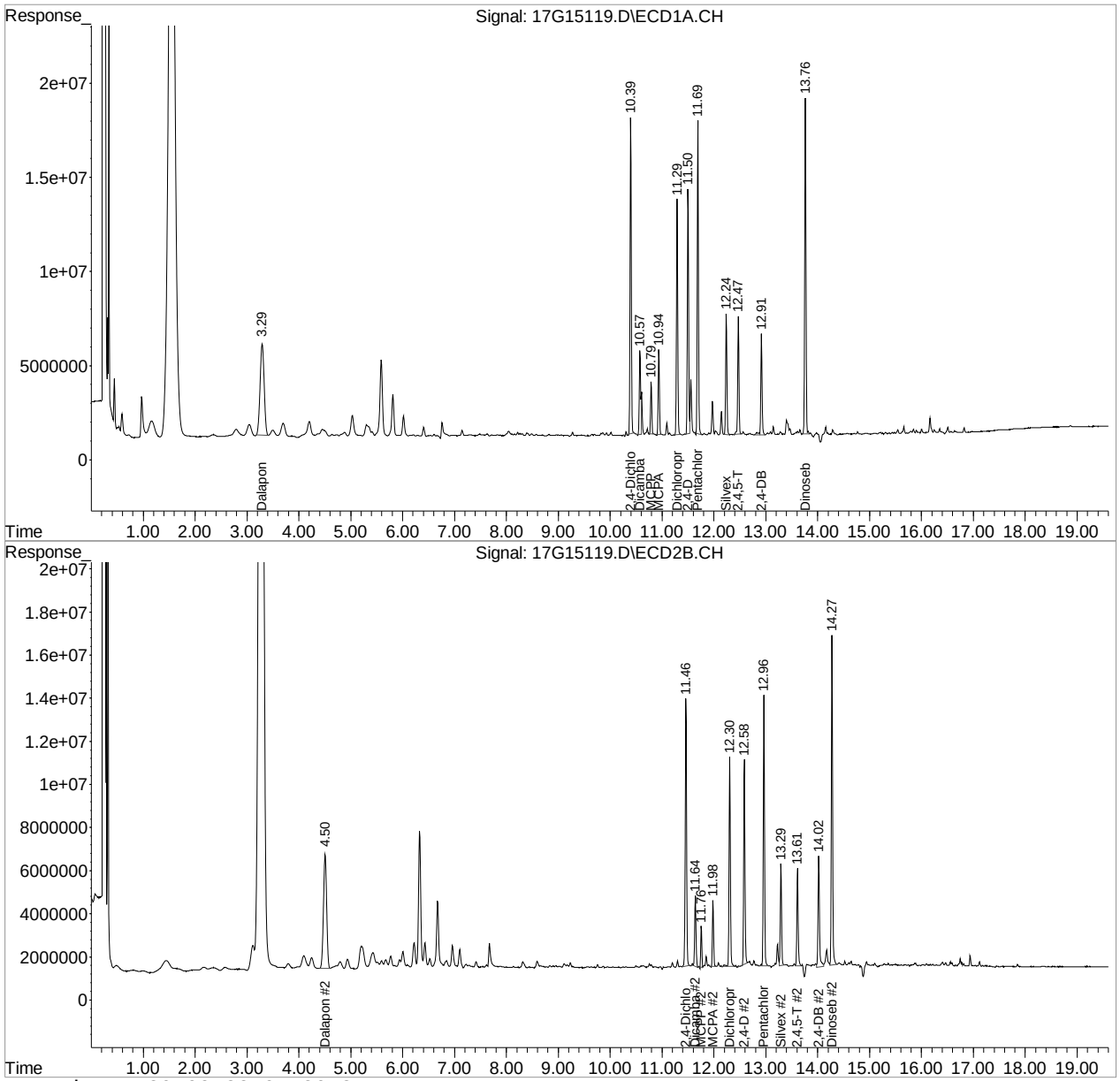
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.39	11.46	270.6E6	220.6E6	337.569	386.583	
	Spiked Amount 500.000			Recovery =		67.51%	77.32%	
	Target Compounds							
1)	Dalapon	3.29	4.51	263.6E6	224.1E6	267.375	307.186	
3)	MCPA	10.94	11.98	71720319	47697512	19.636	21.839	
4)	Dicamba	10.57	11.64	73424865	57274182	20.116	20.836	
5)	MCPP	10.79	11.76	42615224	27060219	18.661	19.690	
6)	Dichloroprop	11.29	12.30	208.8E6	168.6E6	215.240	252.432	
7)	2,4-D	11.50	12.58	212.0E6	156.7E6	211.620	218.026	
8)	Pentachloropheno	11.69	12.96	258.3E6	203.8E6	19.816	22.429	
9)	Silvex	12.24	13.29	105.3E6	77067715	19.433	21.115	
10)	2,4,5-T	12.47	13.61	103.7E6	76684021	18.662	22.928	
11)	Dinoseb	13.76	14.27	302.9E6	251.2E6	112.598	130.692	
12)	2,4-DB	12.91	14.02	91829240	97418567	149.463	250.357	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : D:\MSDCHEM\1\DATA\082913\
Data File : 17G15119.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Aug 2013 16:16 (#1); 29 Aug 2013 16:42 (#2)
Operator : ECL
Sample : WG442712-03 LCS DUP
Misc : 17,1 WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:30:45 2013
Quant Method : D:\MSDCHEM\1\METHODS\8151.M
Quant Title : HP17: 8151 CALIBRATION July 22, 2013
QLast Update : Thu Aug 29 15:38:59 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



3.0 Attachments

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
September 5, 2013

---

001 – BIO-CHEM TESTING WVDEP 220	002 – REIC Consultants, Inc. WVDEP 060
003 – Sturm Environmental	ADC – ANTHONY D. CANTER
ADG – APRIL D. GREENE	AJF – AMANDA J. FICKIESEN
AML – TONY M. LONG	AZH – AFTER HOURS
BAF – BRICE A. FENTON	BLG – BRENDA L. GREENWALT
BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES
CLC – CHRYS L. CRAWFORD	CLS – CARA L. STRICKLER
CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CRW – CHRISTINA R. WILSON	CSH – CHRIS S. HILL
CTB – CHRIS T. BUCINA	DAK – DEAN A. K
DCM – DAVID C. MERCKLE	DDE – DEBRA D. ELLIOTT
DEV – DAVID E. VANDENBERG	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH	DSM – DAVID S. MOSSOR
ECL – ERIC C. LAWSON	EDL – ERIN D. LONG
EPT – ETHAN P. TIDD	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HJR – HOLLY J. REED
JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKS – JANE K. SCHAAD	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU
KDW – KATHRYN D. WELCH	KEB – KATIE E. BARNES
KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON
KRB – KAELY R. BECKER	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON
MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS
PIT – MICROBAC WARRENDALE	PSW – PEGGY S. WEBB
QX – QIN XU	RAH – ROY A. HALSTEAD
REK – BOB E. KYER	RLB – BOB BUCHANAN
RNP – RICK N. PETTY	RS – ROSEMARY SCOTT
RWC – RODNEY W. CAMPBELL	SAV – SARAH A. VANDENBERG
SEP – SUZANNE J. PAUGH	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	TPA – TYLER P. AMRINE
VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG	XXX – UNAVAILABLE OR SUBCONTRACT

Microbac Laboratories Inc.
List of Valid Qualifiers
September 05, 2013

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Greater than
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the LOQ.
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
JB	The reported result is an estimated value. The reported result is also associated with a contaminated method blank.
JQ	The reported result is an estimated value and one or more quality control criteria failed. See narrative.
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL/MDL).
ND, H1	Not detected; Sample analysis performed past holding time.
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER # 99335 MICROBAC

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: **Microbac**
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to: **ekorthals@ctlaboratories.com**

CTLaboratories
Eric Korthals
1230 Lange Court
Baraboo WI 53913

Date Due: ≤ 2 WEEKS *RUSH TURNAROUND NEEDED? Y or (N) (Circle One)*

Project Name: RVAAP **Project State:** OH

Analytical/QC Criteria: NONE INDICATED STATE (DOD QSM) NELAP (Circle one) OTHER_____

Report results as EDD? N (Y) (Circle one and indicate type: EDD EDMS (IF AVAILABLE)) Data Deliverable Package LEVEL: IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method		Cost
339578	08/15/2013 0835	TCLP	083SB-0022-0001-IDW	HERBICIDES	SW8151	
339580	08/15/2013 0900	TCLP	083SB-0021-0001-IDW	HERBICIDES	SW8151	

Relinquished by: _____ Date/Time: 8-20-13 / 1030h

Received by: _____ Date/Time: _____ Receipt Temperature (C) _____

COMMENTS: USE CLIENT SAMPLE DESCRIPTIONS. TCLP EXTRACTION DATE/TIME 8/20/13 0800h

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

Microbac OVD
Received: 08/21/2013 10:49
By: BRENDA GREENWALT 221000040684

Brenda Greenwalt

Generated: 09/05/2013 13:47

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L13081126
Account: 2694
Project: 2694.005
Samples: 2
Due Date: 30-AUG-2013

Samplenum	Container ID	Products
L13081126-01	235592	SPECIA

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	22-AUG-2013 12:51	JKT		
2	PREP	W1	EXT	27-AUG-2013 10:55	JDH	CLS	
3	DISP	EXT	DISP	28-AUG-2013 06:50	RLB	RLB	
4	PREP*	EXT	EXT	28-AUG-2013 17:25	RAH	JDH	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L13081126-02	235593	SPECIA

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	22-AUG-2013 12:51	JKT		
2	PREP	W1	EXT	27-AUG-2013 10:55	JDH	CLS	
3	DISP	EXT	DISP	28-AUG-2013 06:51	RLB	RLB	
4	PREP*	EXT	EXT	28-AUG-2013 17:25	RAH	JDH	

***Sample extract/digestate/leachate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 99335
Client: ECC

Print Date / Time: 08/19/2013 08:30
Received Date / Time / By: 08/16/2013 1020 TVS

Project Name: RVAAP
Project Phase:RINSE BLANK / IDW

Log-In Date / Time / By: 08/16/2013 1132 JLS
Project #: PM: ETK

Coolers: 5127,5144
Custody Seals Present : **Y**

Temperature: 2.5 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX
Adequate Packaging: **Y**

Numbers: SIGNED/DATED
Tracking Number: 803246222487
Temp Blank Enclosed? **Y**

Notes: SAMPLES RECEIVED INTACT AND IN GOOD CONDITION.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
339561 083SB-0023-0001-ER				
	AMBER GL	1	/	8270,EXPL,NC,PCB,PEST
	AMBER GL	1	/	8270,EXPL,NC,PCB,PEST
	AMBER GL	1	/	8270,EXPL,NC,PCB,PEST
	AMBER GL	1	/	8270,EXPL,NC,PCB,PEST
	AMBER GL	1	/	8270,EXPL,NC,PCB,PEST
	AMBER GL	1	/	8270,EXPL,NC,PCB,PEST
	Total # of Containers of Type	**(*AMBER GL*) = 6**		
339561 083SB-0023-0001-ER				
	VOA HCL	1	/	GRO,VOC
	VOA HCL	1	/	GRO,VOC
	VOA HCL	1	/	GRO,VOC
	VOA HCL	1	/	GRO,VOC
	Total # of Containers of Type	**(*VOA HCL*) = 4**		
339561 083SB-0023-0001-ER				
	HNO3	1	Y /	HG,ICP,K,NA
	Total # of Containers of Type	**(*HNO3*) = 1**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
339568 083SB-0022-0001-IDW				
	UNPRES GL	1	/	%SOL,Anions,CN React,pH,S2 React,FL
	UNPRES GL	1	/	%SOL,Anions,CN React,pH,S2 React,FL
	UNPRES GL	1	/	%SOL,Anions,CN React,pH,S2 React,FL
	UNPRES GL	1	/	%SOL,Anions,CN React,pH,S2 React,FL
	Total # of Containers of Type	**(*UNPRES GL*) = 4**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
339578 083SB-0022-0001-IDW				
	UNPRES GL	1	/	8270,PEST,VOC,HG,ICP,SUB HERB

UNPRES GL	1	/	8270,PEST,VOC,HG,ICP,SUB HERB
UNPRES GL	1	/	8270,PEST,VOC,HG,ICP,SUB HERB
UNPRES GL	1	/	8270,PEST,VOC,HG,ICP,SUB HERB

Total # of Containers of Type (*UNPRES GL*) = 4

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
339579 083SB-0021-0001-IDW				
	NA0H PL	1	Y /	CN
	Total # of Containers of Type (*NA0H PL*) = 1			
339579 083SB-0021-0001-IDW				
	NA0H PL	1	Y /	CN React
	Total # of Containers of Type (*NA0H PL*) = 1			
339579 083SB-0021-0001-IDW				
	UNPRES PL	1	/	FLASH,PH
	Total # of Containers of Type (*UNPRES PL*) = 1			
339579 083SB-0021-0001-IDW				
	NAOH W/ZNAC	1	Y /	S2 React
	Total # of Containers of Type (*NAOH W/ZNAC*) = 1			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
339580 083SB-0021-0001-IDW				
	AMBER GL	1	/	8270,PEST
	AMBER GL	1	/	8270,PEST
	AMBER GL	1	/	8270,PEST
	Total # of Containers of Type (*AMBER GL*) = 3			
339580 083SB-0021-0001-IDW				
	UNPRES GL	1	/	HERB
	Total # of Containers of Type (*UNPRES GL*) = 1			
339580 083SB-0021-0001-IDW				
	HNO3	1	Y /	HG,ICP
	Total # of Containers of Type (*HNO3*) = 1			
339580 083SB-0021-0001-IDW				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
339581 083SB-0024-0001-TB				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Condition Code	*Condition Description*
1	Sample Received OK

Rev. 2/2013

CHAIN OF CUSTODY

Page 1 of 1

Company: ECC
Project Contact: Jackson Kilhar
Telephone:
Project Name:
Project #:
Location: RAVENNA
Sampled By: RW, CB

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 99335
Company: ECC
Project: RVAAP
Logged By: JLS PM: ET

gram:
RCRA SDWA NPDES
Waste Other _____

Report To:
EMAIL:
Company: CT LOC #906
Address:

Invoice To:*
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

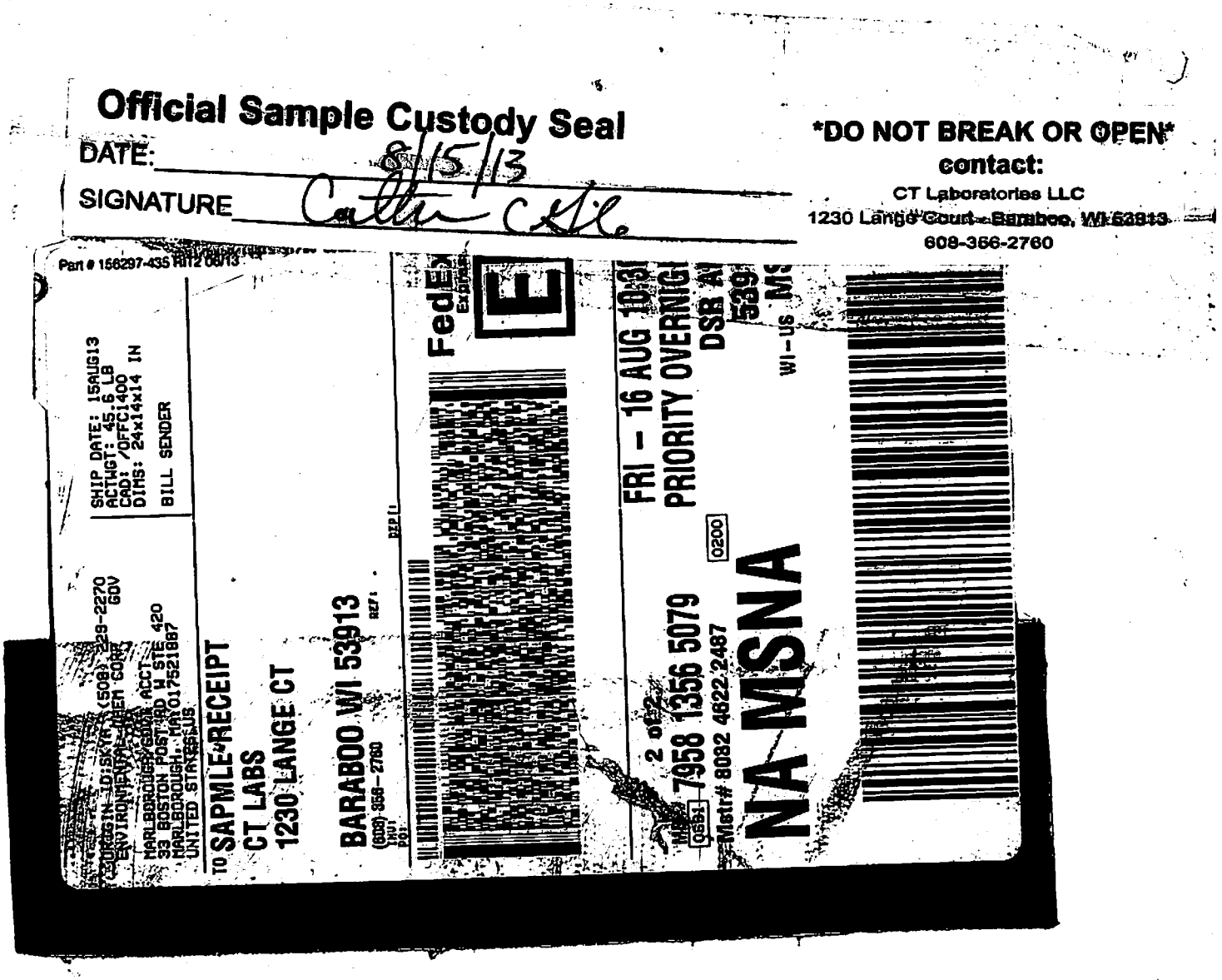
Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample # (1,2,3, etc)	Sample ID Description	Filtered? Y/N	VOC (Frozen)	SVOC	PAH	Explosives	Propellants	Pesticides	PCB	TAL Metals	TCLP VOC	TCLP SVOC	TCLP Pesticides	TCLP Herbicides	TCLP Metals	RCRA Characteristics (Ignitability, Corrosivity, Reactivity)	pH, Cyanide, Sulfide	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test																		
8/15/13	0930	W	X		083SB-0023-0001-ER	N	X	X	X	X	X	X	X	X									10		339561
8/15/13	0835	S	X		083SB-0022-0001-IDW	N	■								X	X	X	X	X	X	X		4		339568/578
8/15/13	0900	W	X		083SB-0021-0001-IDW	N									X	X	X	X	X	X					339575/580
8/15/13	0800	W	X		083SB-0024-0001-TB	N	X															339581			TMP Blk.

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time	Lab Use Only
[signature] Ann	8-15-13 1400	PROAX		Ice Present (Yes) No
Received by:	Date/Time	Received for Laboratory by:	Date/Time 8/16/13 1132	Temperature 2.5
		[signature]		Cooler # 5127, 5144

TVS 8/16/13 1020


Official Sample Custody Seal
DATE: 8/15/13
SIGNATURE
DO NOT BREAK OR OPEN
contact:
CT Laboratories LLC
1230 Lange Court - Baraboo, WI 53913
608-356-2760
Part # 156297-435 Rit2 08/13
SHIP DATE: 15AUG13
ACTWGT: 45.6 LB
CAD: /OFFC1400
DIMS: 24x14x14 IN
BILL SENDER
TO SAPMLE RECEIPT
CT LABS
1230 LANGE CT
BARABOO WI 53913
(608) 356-2760
FedEx Express
FRI - 16 AUG 10:3
PRIORITY OVERNIGHT
DSR A
539
NA MSNA
7958 1356 5079
0200
Mstr# 8082 4622 2487

ENVIRONMENTAL CHEM CORP GOV
MARLBOROUGH/GOVT ACCT
33 BOSTON POST RD W STE 420
MARLBOROUGH, MA 01752187
UNITED STATES US

ACTWGT: 43.0 LB
CAD: /OFFC1400
DIMS: 24x14x14 IN
BILL SENDER

TO SAPMLE RECEIPT
CT LABS
1230 LANGE CT

BARABOO WI 53913
(608) 356-2760
INV:
PO:
REF:

RTE 327

FedE
Expr

FRI – 16 AUG 10:3
PRIORITY OVERNIG
DSR A
539
WI-US M

1 of 2
TRK# 0200 8032 4622 2487
MASTER
NA MSNA

FedEx
MPS
15AUG 18:00
MASTER TRK#:
Pkg Trk#'s: 795813565079

0200

1 From
Date 8-15-13
Sender's Name JEFF DONOVAN Phone 608 509 1784
Company FCC
Address 33 BOSTON POST RD WEST SUITE 420
Dept/Floor/Suite/Room
City MARLBORO State MA ZIP 01752

2 Your Internal Billing Reference RAVENA

3 To
Recipient's Name SAMPLE RECEIPT Phone 608 3562760
Company CT LABORATORIES
Address
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room
Address 1230 LANGE COURT
Use this line for the HOLD location address or for continuation of your shipping address.
City BARABOO State WI ZIP 53913

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Next Business Day
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 D
- [ ] FedEx 2 — Second bu... Saturday
- [ ] FedEx 2 — Second bu... will be deli... Delivery is
- [ ] FedEx E — Third busi... Saturday

5 Packaging * Declared value limit $500.
- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box

6 Special Handling and Delivery Signature Optio
- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Se...
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [x] Direct Signature — Someone at recipient's address may sign for delivery. Applicable...

Does this shipment contain dangerous goods?
One box must be checked.
- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry...

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. be...
- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [x] Third Party
- [ ]

Total Packages 2 Total Weight 95 lbs.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service G...

fedex.com 1800.GoFedEx 1800.463.3339

Official Sample Custody Seal
DATE: 8/15/13
SIGNATURE
"DO NOT BREAK OR OPEN"
Contact:
CT Laboratories LLC
1230 Lange Court Baraboo, WI 53913
608.356.2760

Folder #: 99335

PM LOGIN CONFIRMATION

Contract #: 2622

Company: ECC **Project:** RVAAP **Proj #:**

Project Phase: **PO Number:** **Invoice #:** 99625

Project Manager: *ETK* **Date Received:** 08/16/13 **Log Date:** 08/16/2013 **Projected Sample Disposal Date:** 60 days from receipt date

Report To: AL EASTERDAY CC:
33 BOSTON POST RD
MARLBOROUGH, MA 01752
Phone: : Fax:
Rep. E-Mail aeasterday@ecc.net

Invoice To :ACCOUNTS PAYABLE CC:
1301 CONTINENTAL DR
SUITE 108
ABINGDON, MD 21009
Phone: Fax:
EMail:

Collected By: rw, cg
Collector's Phone:

Arrival Temperature: 2.5 oC

SAMPLE #: 339561 DESCR: 083SB-0023-0001-ER MATRIX: GROUND WATER SAMPLED: 08/15/2013 Time: 0930 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
779	VOC 8260 QSM			*Y*	08/29/2013	08/28/2013		Logged
780	SVOC 8270 QSM					08/28/2013		NeedPrep
848	ICP TOTAL QSM				02/11/2014	08/28/2013		Logged
		Total Aluminum						
		Total Antimony						
		Total Arsenic						
		Total Barium						
		Total Beryllium						
		Total Cadmium						
		Total Calcium						
		Total Chromium						
		Total Cobalt						
		Total Copper						
		Total Iron						

Folder #: 99335 **Company:** *ECC* **Project:** RVAAP

SAMPLE #: 339561 **DESCR:** 083SB-0023-0001-ER **MATRIX:** GROUND WATER **SAMPLED:** 08/15/2013 **Time:** 0930 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Total Lead						
		Total Magnesium						
		Total Manganese						
		Total Nickel						
		Total Selenium						
		Total Silver						
		Total Thallium						
		Total Vanadium						
		Total Zinc						
849	ICP K TOTAL QSM				02/11/2014	08/28/2013		Logged
850	ICP NA TOTAL QSM				02/11/2014	08/28/2013		Logged
851	MERCURY TOTAL QSM				09/12/2013	08/28/2013		NeedPrep
855	PCB QSM					08/28/2013		NeedPrep
859	PESTICIDES QSM					08/28/2013		NeedPrep
891	EXPLOSIVES NITROGUAN					08/28/2013		NeedPrep
906	8330B EXPLOSIVES QSM					08/28/2013		NeedPrep
960	PAH SIM QSM					08/28/2013		NeedPrep
1010	GRO 8015 QSM				08/29/2013	08/28/2013		Logged
1042	NITROCELLULOSE QSM					08/28/2013		NeedPrep

SAMPLE #: 339568 **DESCR:** 083SB-0022-0001-IDW **MATRIX:** SOIL **SAMPLED:** 08/15/2013 **Time:** 0835 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				08/29/2013	08/28/2013		Logged
203	PH					08/28/2013		Logged
618	FLASHPOINT				08/25/2013	08/28/2013		Logged
703	CYANIDE, REACT					08/28/2013		Entered
704	SULFIDE, REACT					08/28/2013		Entered
868	ANION IC QSM				09/12/2013	08/28/2013		NeedPrep
		Nitrate Nitrogen						

Folder #: 99335 **Company:** *ECC* **Project:** RVAAP

SAMPLE #: 339568 **DESCR:** 083SB-0022-0001-IDW **MATRIX:** SOIL **SAMPLED:** 08/15/2013 **Time:** 0835 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Nitrite Nitrogen						

SAMPLE #: 339578 **DESCR:** 083SB-0022-0001-IDW **MATRIX:** TCLP **SAMPLED:** 08/15/2013 **Time:** 0835 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
292	SUB HERBICIDES					08/28/2013		NeedExt
1044	VOC 8260 QSM TCLP			*Y*		08/28/2013		NeedExt
1045	ICP QSM TCLP				02/11/2014	08/28/2013		NeedExt
		Arsenic						
		Barium						
		Cadmium						
		Chromium						
		Lead						
		Selenium						
		Silver						
1048	MERCURY QSM TCLP				09/12/2013	08/28/2013		NeedExt
1050	SVOC 8270 QSM TCLP			*Y*		08/28/2013		NeedExt
1051	PESTICIDES QSM TCLP			*Y*		08/28/2013		NeedExt

SAMPLE #: 339579 **DESCR:** 083SB-0021-0001-IDW **MATRIX:** GROUND WATER **SAMPLED:** 08/15/2013 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
203	PH					08/28/2013		Logged
618	FLASHPOINT				08/25/2013	08/28/2013		Logged
703	CYANIDE, REACT					08/28/2013		Entered
704	SULFIDE, REACT					08/28/2013		Entered

SAMPLE #: 339580 **DESCR:** 083SB-0021-0001-IDW **MATRIX:** TCLP **SAMPLED:** 08/15/2013 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
292	SUB HERBICIDES					08/28/2013		NeedExt

Folder #: 99335 **Company:** *ECC* **Project:** RVAAP

SAMPLE #: 339580 **DESCR:** 083SB-0021-0001-IDW **MATRIX:** TCLP **SAMPLED:** 08/15/2013 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1044	VOC 8260 QSM TCLP			*Y*		08/28/2013		NeedExt
1045	ICP QSM TCLP				02/11/2014	08/28/2013		NeedExt
		Arsenic						
		Barium						
		Cadmium						
		Chromium						
		Lead						
		Selenium						
		Silver						
1048	MERCURY QSM TCLP				09/12/2013	08/28/2013		NeedExt
1050	SVOC 8270 QSM TCLP			*Y*		08/28/2013		NeedExt
1051	PESTICIDES QSM TCLP			*Y*		08/28/2013		NeedExt

SAMPLE #: 339581 **DESCR:** 083SB-0024-0001-TB **MATRIX:** TRIP BLANK **SAMPLED:** 08/15/2013 **Time:** 0800 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
779	VOC 8260 QSM			*Y*	08/29/2013	08/28/2013		Logged

Folder #: 99335 **Company:** *ECC* **Project:** RVAAP

Invoice Number: 99625 **Preliminary Invoice Estimate:** $ 2,190.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
8330B EXPLOSIVES QSM	GROUND WATER	1	$ 85.00	0.00	$ 85.00
ANION IC QSM Nitrate Nitrogen	SOIL	1	$ 12.00	0.00	$ 12.00
ANION IC QSM Nitrite Nitrogen	SOIL	1	$ 12.00	0.00	$ 12.00
CYANIDE, REACT	GROUND WATER	1	$ 35.00	0.00	$ 35.00
CYANIDE, REACT	SOIL	1	$ 35.00	0.00	$ 35.00
EXPLOSIVES NITROGUAN	GROUND WATER	1	$ 70.00	0.00	$ 70.00
FLASHPOINT	GROUND WATER	1	$ 30.00	0.00	$ 30.00
FLASHPOINT	SOIL	1	$ 30.00	0.00	$ 30.00
GRO 8015 QSM	GROUND WATER	1	$ 55.00	0.00	$ 55.00
ICP K TOTAL QSM	GROUND WATER	1	$ 7.00	0.00	$ 7.00
ICP NA TOTAL QSM	GROUND WATER	1	$ 0.00	0.00	$ 0.00
ICP QSM TCLP Arsenic	TCLP	2	$ 8.00	0.00	$ 16.00
ICP QSM TCLP Barium	TCLP	2	$ 8.00	0.00	$ 16.00
ICP QSM TCLP Cadmium	TCLP	2	$ 8.00	0.00	$ 16.00
ICP QSM TCLP Chromium	TCLP	2	$ 8.00	0.00	$ 16.00
ICP QSM TCLP Lead	TCLP	2	$ 8.00	0.00	$ 16.00
ICP QSM TCLP Selenium	TCLP	2	$ 8.00	0.00	$ 16.00
ICP QSM TCLP Silver	TCLP	2	$ 8.00	0.00	$ 16.00
ICP TOTAL QSM Total Aluminum	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Antimony	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Arsenic	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Barium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Beryllium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Cadmium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Calcium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Chromium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Cobalt	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Copper	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Iron	GROUND WATER	1	$ 3.00	0.00	$ 3.00

ICP TOTAL QSM Total Lead	GROUND WATER	1	$ 12.00	0.00	$ 12.00
ICP TOTAL QSM Total Magnesium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Manganese	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Nickel	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Selenium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Silver	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Thallium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Vanadium	GROUND WATER	1	$ 3.00	0.00	$ 3.00
ICP TOTAL QSM Total Zinc	GROUND WATER	1	$ 3.00	0.00	$ 3.00
MERCURY QSM TCLP	TCLP	2	$ 19.00	0.00	$ 38.00
MERCURY TOTAL QSM	GROUND WATER	1	$ 15.00	0.00	$ 15.00
NITROCELLULOSE QSM	GROUND WATER	1	$ 50.00	0.00	$ 50.00
PAH SIM QSM	GROUND WATER	1	$ 77.00	0.00	$ 77.00
PCB QSM	GROUND WATER	1	$ 55.00	0.00	$ 55.00
PESTICIDES QSM	GROUND WATER	1	$ 75.00	0.00	$ 75.00
PESTICIDES QSM TCLP	TCLP	2	$ 100.00	0.00	$ 200.00
PH	GROUND WATER	1	$ 10.00	0.00	$ 10.00
PH	SOIL	1	$ 10.00	0.00	$ 10.00
SOLIDS,PERCENT	SOIL	1	$ 0.00	0.00	$ 0.00
SUB HERBICIDES	TCLP	2	$ 150.00	0.00	$ 300.00
SULFIDE, REACT	GROUND WATER	1	$ 35.00	0.00	$ 35.00
SULFIDE, REACT	SOIL	1	$ 35.00	0.00	$ 35.00
SVOC 8270 QSM	GROUND WATER	1	$ 150.00	0.00	$ 150.00
SVOC 8270 QSM TCLP	TCLP	2	$ 140.00	0.00	$ 280.00
VOC 8260 QSM	GROUND WATER	1	$ 69.00	0.00	$ 69.00
VOC 8260 QSM	TRIP BLANK	1	$ 69.00	0.00	$ 69.00
VOC 8260 QSM TCLP	TCLP	2	$ 85.00	0.00	$ 170.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
AMBER GL	**9**	8270,PEST
HNO3	**2**	HG,ICP
NA0H PL	**2**	CN
NAOH W/ZNAC	**1**	S2 React
UNPRES GL	**9**	%SOL,Anions,CN React,pH,S2 React,
UNPRES PL	**1**	FLASH,PH
VOA HCL	**10**	VOC